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MAXIMUM RELIABILITY

Quality and engineering support would be meaningless if Mill-Max could not deliver your components on schedule. We work hard to ensure that the integrity of both your products and your schedule will never be compromised.

Mill-Max maintains the largest inventory of stock products in North America to ensure our ability to fill orders rapidly and consistently. The expansive scale of our manufacturing operations ensures that we can meet the requirements of custom component runs quickly, efficiently and on time.

"We found knowledgeable people with a good understanding of quality control – if we have a problem they respond right away."

–Senior Quality Engineer, Energy & Water Metering Equipment

MAXIMUM SERVICE

Call on Mill-Max and you will find that we will do everything possible to make your job easier. Our newly designed website features the most robust and easy-to-use product search engine in the industry. Responsive customer service and technical support are company hallmarks, and we specialize in quick turnaround quotes, one-hour order confirmation, on-time delivery, free samples and fast prototyping.

Put Mill-Max to the test and see how hard we will work to satisfy your needs. Mill-Max products are sold directly through our sales representative organizations as well as a network of 25 authorized distributors in the U.S. and throughout the world. Maximum satisfaction: it is both our policy and our promise.

"When they make a promise, they keep that promise... when they say they will deliver, I know I can count on it."

–Senior Purchasing Specialist, CATV/Broadband Equipment Manufacturer

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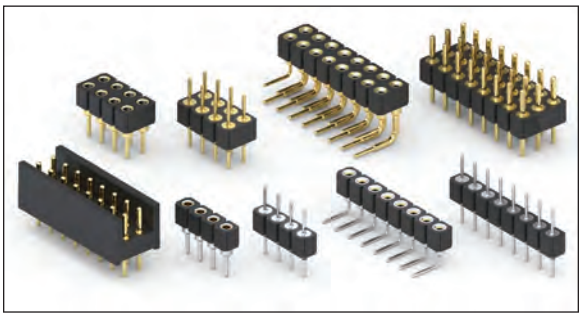

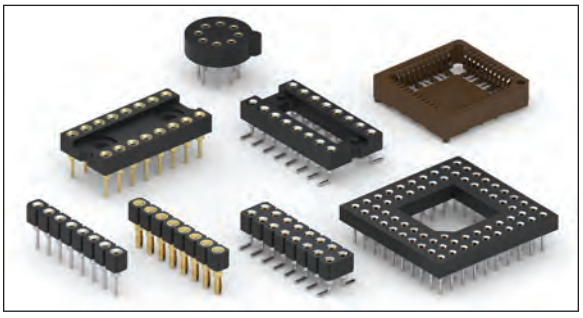

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SPRING-LOADED CONNECTORS

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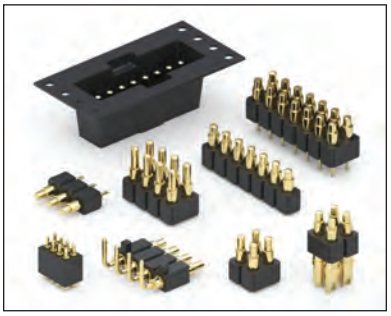
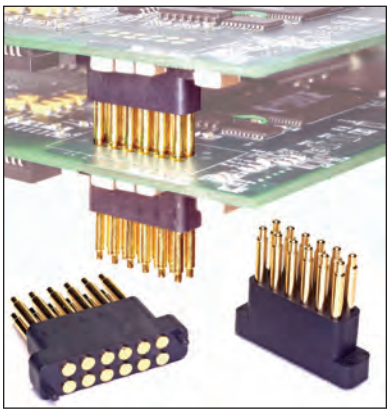
MILL-MAX SPRING-LOADED CONNECTORS ARE IDEAL FOR A WIDE RANGE OF APPLICATIONS, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect solution for many situations where establishing an electrical path between mating points is a challenge, including problematic vibratory environments.

When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) spring-loaded connectors provide a reliable connection exceeding a million cycles.





SOME TYPICAL APPLICATIONS INCLUDE:

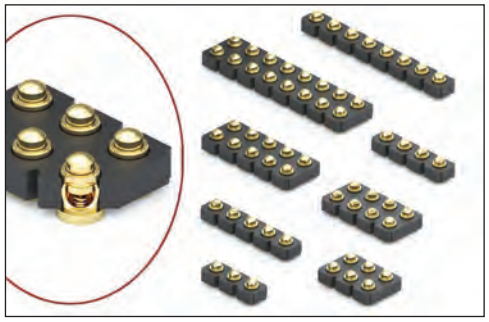
- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations).
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications: The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. In situations where the assembly process doesn't allow for visibility, spring pins are the optimum choice.

MILL-MAX SPRING-LOADED CONNECTORS CAN MATE TO THE FOLLOWING SURFACES:

- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel-plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large, flat gold-plated circuit path to the board.

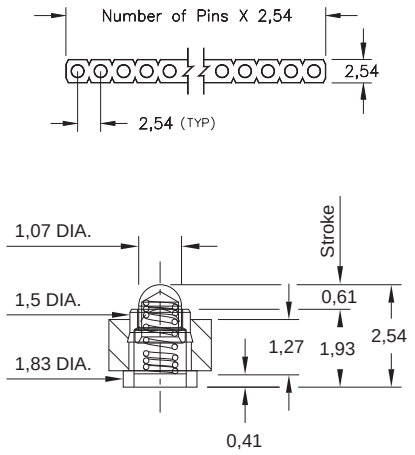
SPRING-LOADED CONNECTORS

SERIES 815 & 817 • 2,54 GRID SURFACE MOUNT, ULTRA LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

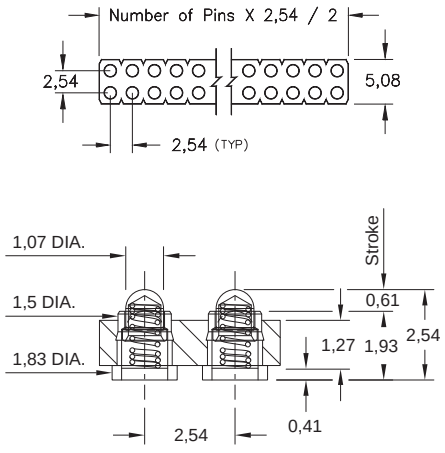


- Modular contacts for use on 2,54 grid, available in a height of 2,54, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 0,3 mid. stroke and a 0,61 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 815 & 817 series contact strips are designed for manual placement onto a 2,08 Ø solder pad prior to reflow soldering

SINGLE ROW Series 815



DOUBLE ROW Series 817



ORDERING INFORMATION

Single Row Series 815

815-22-0XX-30-001101

Specify number of contacts 01-32

For 815 and 817 Tape & Reel packaging, see page 12.1

Double Row Series 817

817-22-0XX-30-001101

Specify number of contacts 04-72

For 815 and 817 Tape & Reel packaging, see page 12.1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,3): 60 grams
Durability: Up to 1,000,000 cycles
Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins), For higher pin counts, contact Technical Support

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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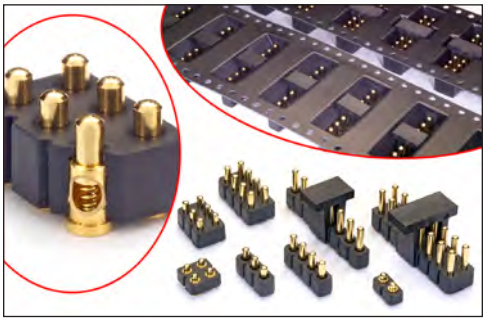
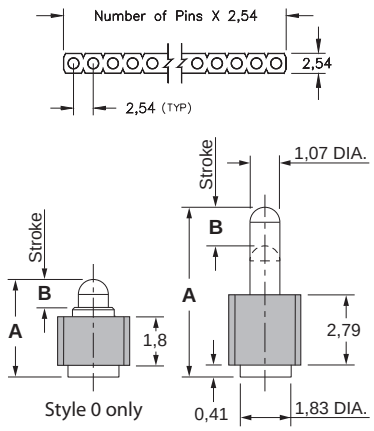
SERIES 811 & 813 • 2,54 GRID SURFACE MOUNT, LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

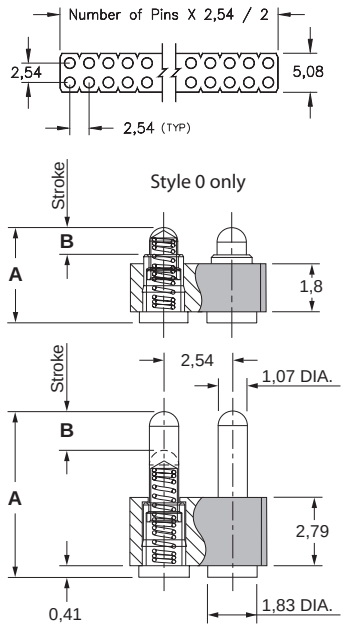


- Modular contacts for use on 2,54 grid, available in five heights from 3,48 to 5,99, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 811 & 813 series, contact styles 1 through 4, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 811



DOUBLE ROW Series 813



ORDERING INFORMATION

Single Row Series 811

811-22-0XX-30-00X101

Specify number of contacts 01-64 — **Specify contact style** 0-4

Double Row Series 813

813-22-0XX-30-00X101

Specify number of contacts 04-72 — **Specify contact style** 0-4

For 811 and 813 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	3,48	0,99
1	4,50	1,14
2	5,0	1,39
3	5,51	1,39
4	5,99	1,39

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: Up to 1,000,000 cycles
Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins), For higher pin counts, contact Technical Support

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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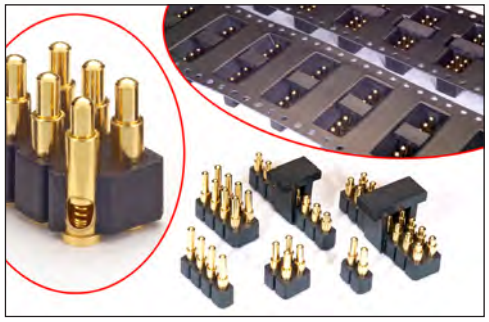
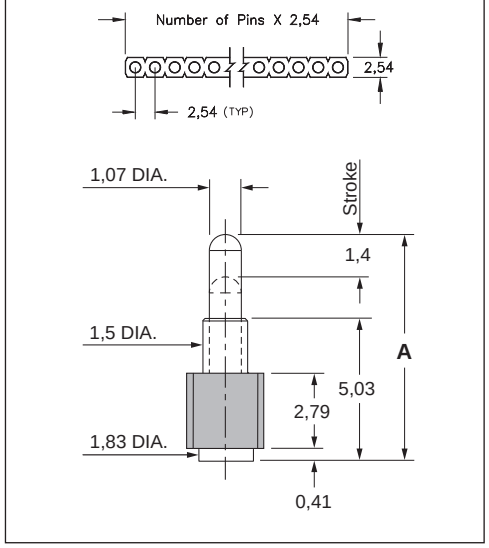
SERIES 812 & 814 • 2,54 GRID SURFACE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS

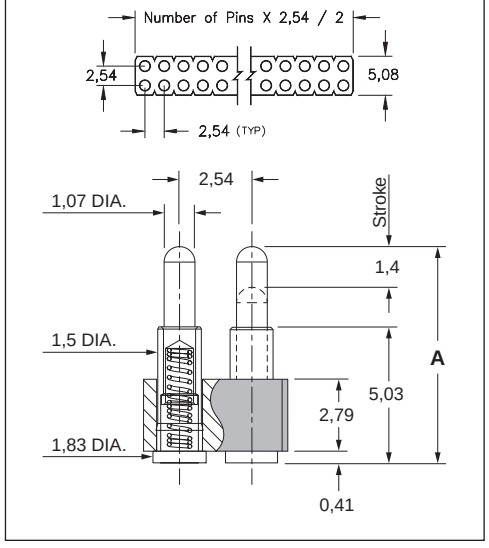


- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Extended body provides greater bearing surface for increased strength & plunger protection
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series, contact styles 0 through 9, are available on 32mm or 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 812



DOUBLE ROW Series 814



ORDERING INFORMATION

Single Row Series 812

812-22-0XX-30-00X101

Specify number of contacts 02-64 — **Specify contact style** 0-9

Double Row Series 814

814-22-0XX-30-00X101

Specify number of contacts 04-72 — **Specify contact style** 0-9

For 812 and 814 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 10µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles
Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins), For higher pin counts, contact Technical Support

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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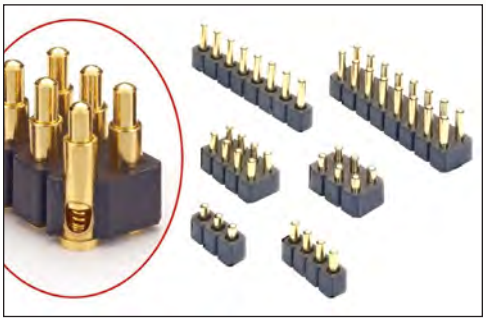
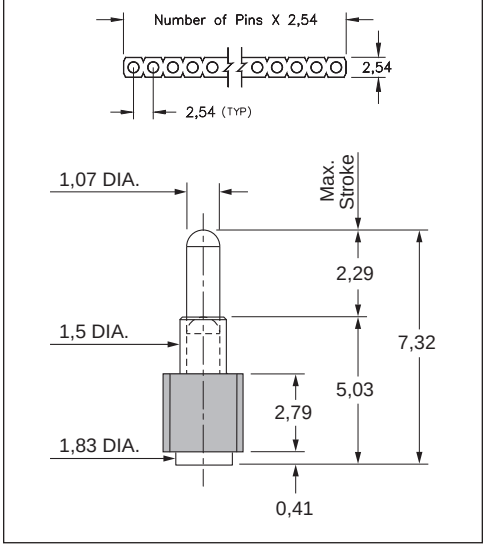
SPRING-LOADED CONNECTORS

SERIES 819 & 820 • 2,54 GRID SURFACE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

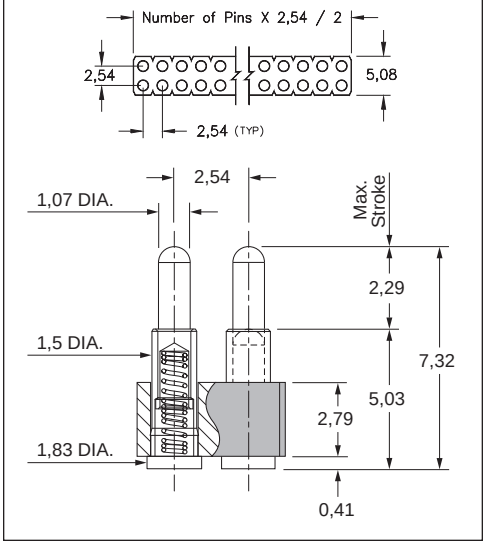


- Modular contacts for use on 2,54 grid, available in a height of 7,32, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 819 & 820 series contact strips are designed for placement onto a Ø 2,08 solder pad prior to reflow soldering
- Both 819 & 820 series, are available on carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12.1 for strip lengths available and ordering information

SINGLE ROW Series 819



DOUBLE ROW Series 820



ORDERING INFORMATION

Single Row Series 819

819-22-0XX-30-001101

Specify number of contacts 01-64

For 819 and 820 Tape & Reel packaging, see page 12.1

Double Row Series 820

820-22-0XX-30-001101

Specify number of contacts 04-72

For 819 and 820 Tape & Reel packaging, see page 12.1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 0,25µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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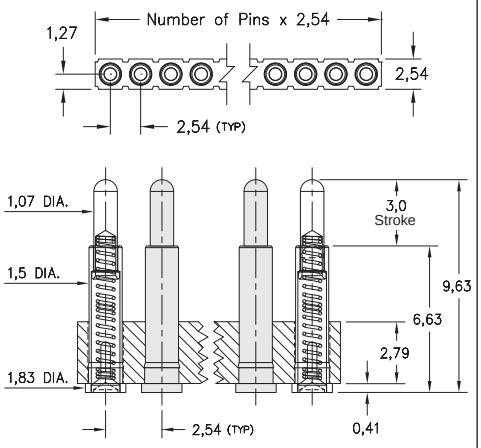
SPRING-LOADED CONNECTORS

SERIES 837 & 839 • 2,54 GRID SURFACE MOUNT, 3MM MAX. STROKE • SINGLE AND DOUBLE ROW STRIPS

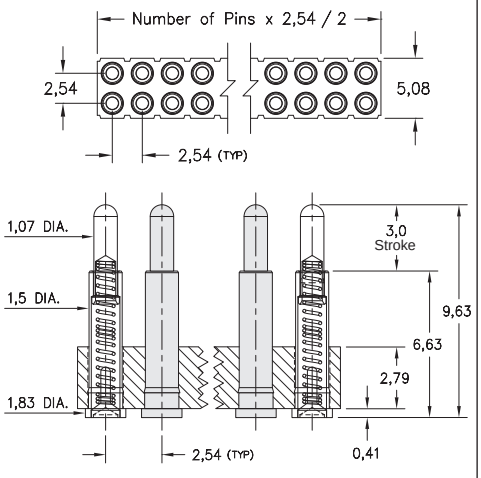
- Modular contacts for use on 2,54 grid, available in single and double row contact strips with recommended rated travel of 0,76 - 2,54 and max. stroke of 3,0 +0/-0,25
- Precision-machined piston / base and gold-plated components
- Extended body provides greater bearing surface for increased strength & plunger protection
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 837 & 839 series, are available on 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 837 & 839 series contact strips are designed for manual or automatic placement onto 2,08 Ø solder pads

SINGLE ROW Series 837



Coplanarity 0,13. For Pin Counts >10 positions consult Technical Support

DOUBLE ROW Series 839



Coplanarity 0,13. For Pin Counts >20 positions consult Technical Support

ORDERING INFORMATION

Series 837 (Bulk Packaged)

837-22-0XX-30-001101

Specify number of contacts 01-64

Series 837 (Tape & Reel Packaged, 200 parts per reel)

837-22-0XX-30-001191

Specify number of contacts 02-12

Series 839 (Bulk Packaged)

839-22-0XX-30-001101

Specify number of contacts 04-72

Series 839 (Tape & Reel Packaged, 200 parts per reel)

839-22-0XX-30-001191

Specify number of contacts 04-24

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Stainless Steel-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,5): 85 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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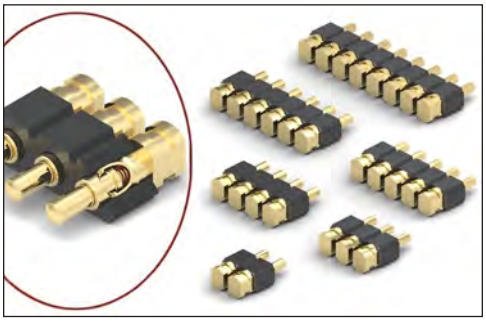
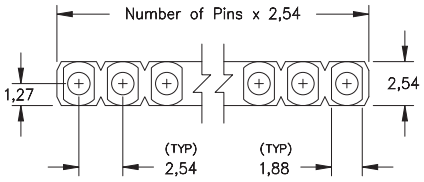
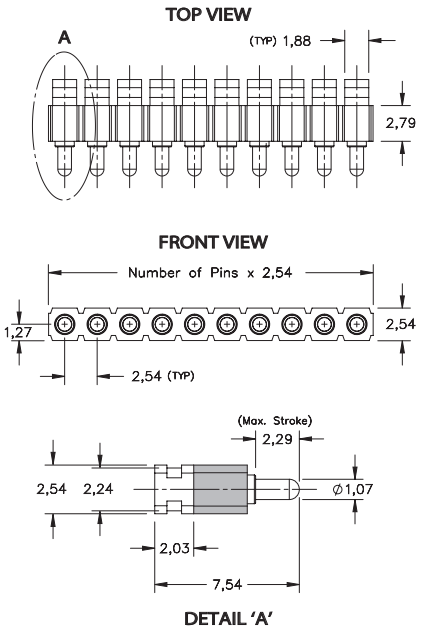
SPRING-LOADED CONNECTORS

SERIES 810 • 2,54 GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

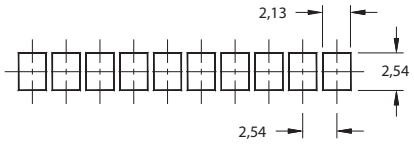


SINGLE ROW Series 810





Suggested P.C.B. FOOTPRINT



Coplanarity 0,13. For Pin Counts >10 positions consult Technical Support

- Modular contacts for use on 2,54 grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B.'s when mated with right angle target connectors (series 399...10-008) or for mating boards in a perpendicular orientation
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke & 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 810 series contact strips are designed for manual placement onto solder pads

ORDERING INFORMATION

Single Row Series 810

810-22-0XX-40-001101

Specify number of contacts 01-10

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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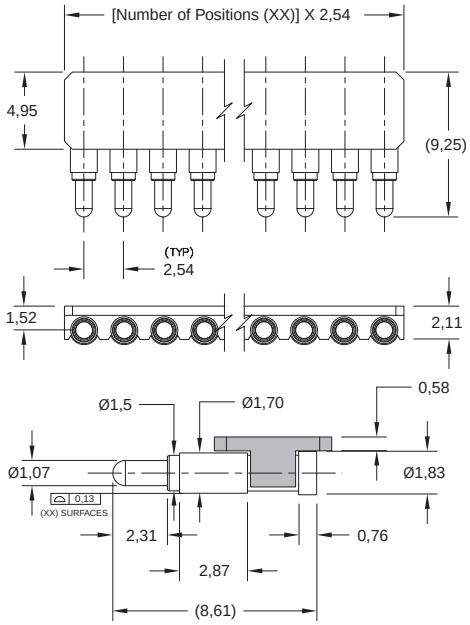
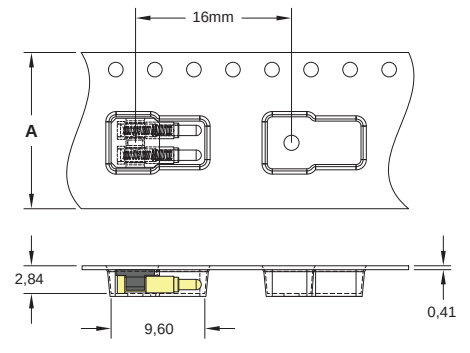
SPRING-LOADED CONNECTORS

SERIES 810 • 2,54 GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

Series 810 Single Row



Series 810 (Tape Pocket Details)



- Modular contacts for use on 2,54 grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B.'s when mated with horizontal surface mount target connectors series 319-10-1XX-40-080001 or for mating boards in a perpendicular orientation
- Pistons have a 1,14 mid. stroke & 2,29 max. stroke
- High temperature thermoplastic insulators are suitable for surface mount processes
- The 810 series are packaged on tape & reel - 16, 24, 32 or 44 mm wide x 16 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D

ORDERING INFORMATION

Series 810 (Tape & Reel Packaged)

810-22-0XX-40-005191

Specify number of contacts 02-10

Number of Contacts	Tape Width Size (A)	Quantity per Reel
2	16mm	1,450
3	16mm	1,450
4	24mm	1,450
5	24mm	1,450
6	24mm	1,450
7	32mm	1,450
8	32mm	1,450
9	44mm	1,450
10	44mm	1,450

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 2-10): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (Contact style 2-10): 25 grams
Spring force @ mid stroke (Contact style 2-10): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

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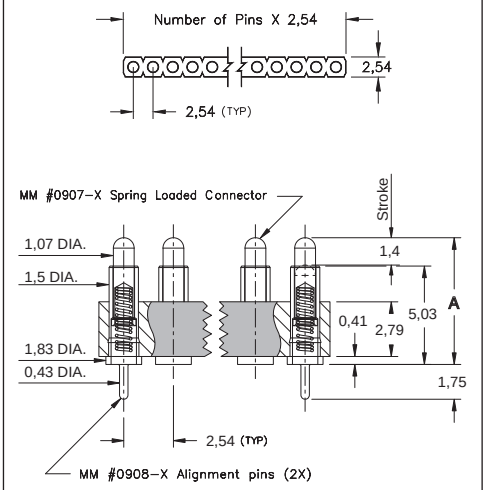
SPRING-LOADED CONNECTORS

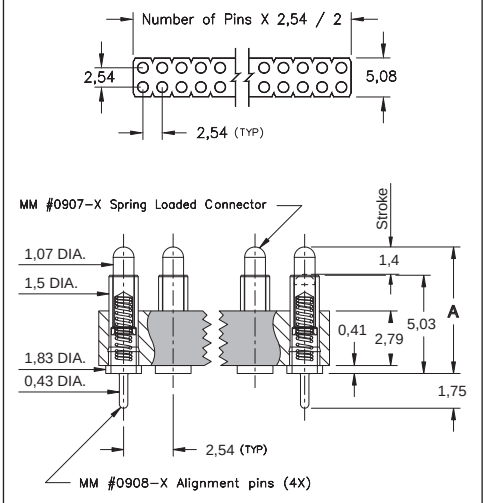
SERIES 812 & 814 • 2,54 GRID SURFACE MOUNT WITH ALIGNMENT PINS • SINGLE AND DOUBLE ROW STRIPS

- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 0,7 mid stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series contact strips are designed for manual placement, Ø 0,56±0,08 plated through-holes in the circuit board are required for the alignment pins prior to intrusive reflow soldering

SINGLE ROW Series 812



DOUBLE ROW Series 814



ORDERING INFORMATION

Single Row Series 812...01X101

812-22-0XX-30-01X101

Specify number of contacts 03-64 — **Specify contact style** 0-9

Double Row Series 814...01X101

814-22-0XX-30-01X101

Specify number of contacts 06-72 — **Specify contact style** 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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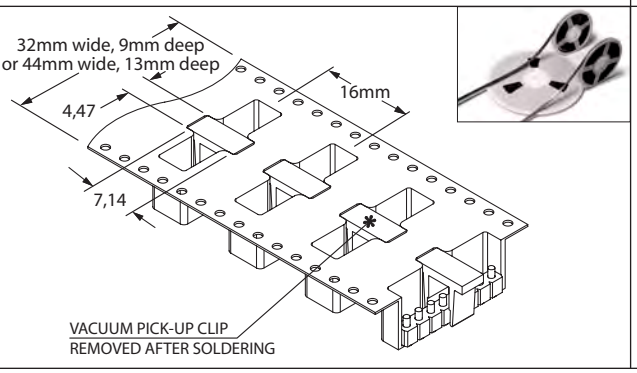
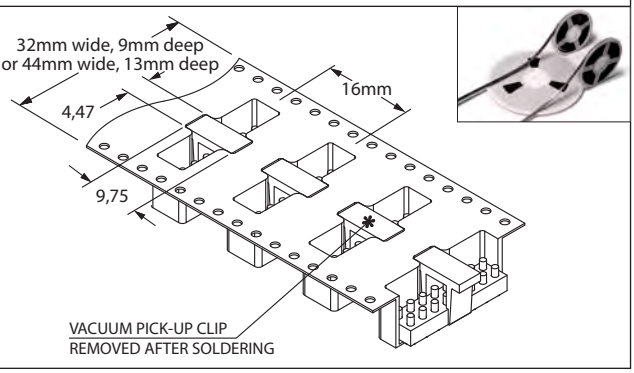
SERIES 811, 812, 813, 814 • 2,54 GRID SURFACE MOUNT • CARRIER TAPE AND PACKAGING

Ordering Information for Series 811/812/813/814 in Carrier Tape

Single Row Series 811	Double Row Series 813
811-22-0XX-30-00X191 **Specify contact style** 0-4 **Specify number of contacts** 02-08 (32mm wide tape, 400 parts per 330mm reel)	813-22-0XX-30-00X191 **Specify contact style** 0-4 **Specify number of contacts** 04-16 (32mm wide tape, 400 parts per 330mm reel)
Single Row Series 811	**Double Row Series 813**
811-22-0XX-30-00X191 **Specify contact style** 1-4 **Specify number of contacts** 09-12 (44mm wide tape, 200 parts per 330mm reel)	813-22-0XX-30-00X191 **Specify contact style** 1-4 **Specify number of contacts** 18-24 (44mm wide tape, 200 parts per 330mm reel)
Single Row Series 812	**Double Row Series 814**
812-22-0XX-30-00X191 **Specify contact style** 0-2 **Specify number of contacts** 02-08 (32mm wide tape, 400 parts per 330mm reel)	814-22-0XX-30-00X191 **Specify contact style** 0-2 **Specify number of contacts** 04-16 (32mm wide tape, 400 parts per 330mm reel)
Single Row Series 812	**Double Row Series 814**
812-22-0XX-30-00X191 **Specify contact style** 0-2 **Specify number of contacts** 09-12 (44mm wide tape, 200 parts per 330mm reel)	814-22-0XX-30-00X191 **Specify contact style** 0-2 **Specify number of contacts** 18-24 (44mm wide tape, 200 parts per 330mm reel)
Single Row Series 812	**Double Row Series 814**
812-22-0XX-30-00X191 **Specify contact style** 3-9 **Specify number of contacts** 02-12 (44mm wide tape, 200 parts per 330mm reel)	814-22-0XX-30-00X191 **Specify contact style** 3-9 **Specify number of contacts** 04-24 (44mm wide tape, 200 parts per 330mm reel)





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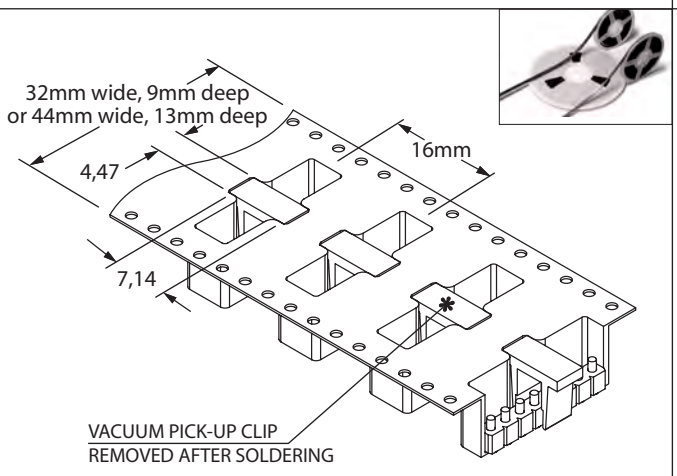
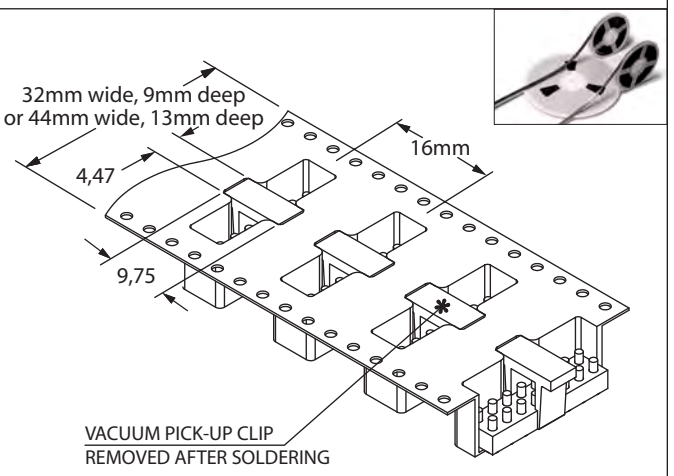
SPRING-LOADED CONNECTORS

SERIES 815, 817, 819, 820 • 2,54 GRID SURFACE MOUNT • CARRIER TAPE AND PACKAGING

Ordering Information for Series 815/817/819/820 in Carrier Tape

Single Row Series 815	Double Row Series 817
815-22-0XX-30-001191 **Specify number of pins** 02-10 (44mm wide tape, 910 parts per 330mm reel)	817-22-0XX-30-001191 **Specify number of pins** 04-20 (44mm wide tape, 680 parts per 330mm reel)
Single Row Series 819	**Double Row Series 820**
819-22-0XX-30-001191 **Specify number of pins** 02-08 (32mm wide tape, 400 parts per 330mm reel)	820-22-0XX-30-001191 **Specify number of pins** 04-16 (32mm wide tape, 400 parts per 330mm reel)
Single Row Series 819	**Double Row Series 820**
819-22-0XX-30-001191 **Specify number of pins** 09-12 (44mm wide tape, 200 parts per 330mm reel)	820-22-0XX-30-001191 **Specify number of pins** 18-24 (44mm wide tape, 200 parts per 330mm reel)





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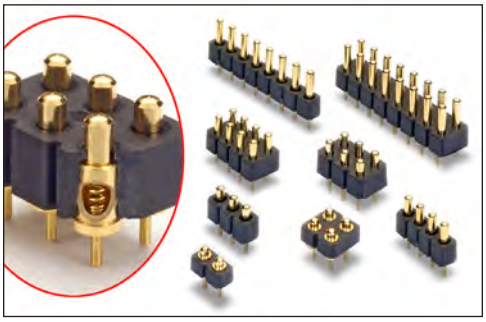
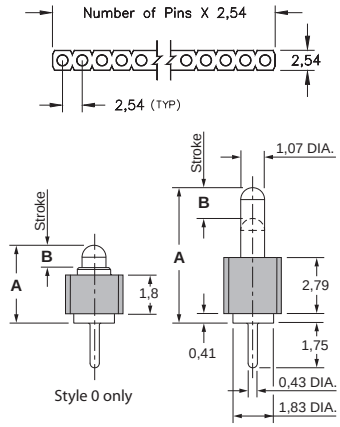
SPRING-LOADED CONNECTORS

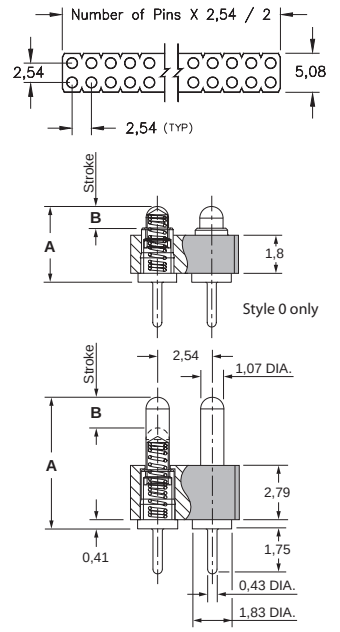
SERIES 821 & 823 • 2,54 GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS



SINGLE ROW Series 821



DOUBLE ROW Series 823



- Modular contacts for use on 2,54 grid, available in five heights from 3,48 to 5,99, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 821 & 823 series contact strips are designed for manual placement into Ø 0,56±0,08 plated through-holes in the circuit board prior to hand, wave or reflow soldering

ORDERING INFORMATION

Single Row Series 821

821-22-0XX-10-00X101

Specify number of contacts 02-64 — **Specify contact style** 0-4

Double Row Series 823

823-22-0XX-10-00X101

Specify number of contacts 04-72 — **Specify contact style** 0-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	3,48	0,99
1	4,50	1,14
2	5,0	1,39
3	5,51	1,39
4	5,99	1,39

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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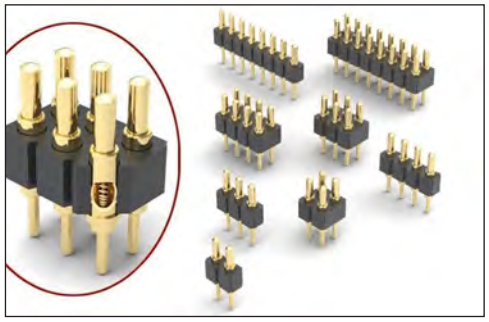
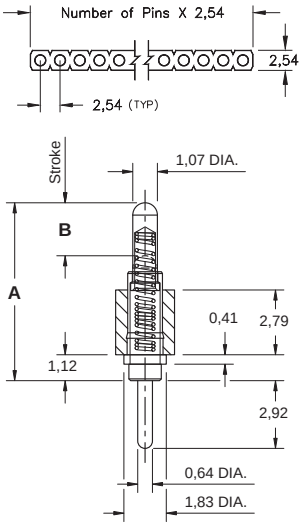
SPRING-LOADED CONNECTORS

SERIES 825 & 827 • 2,54 GRID THROUGH-HOLE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

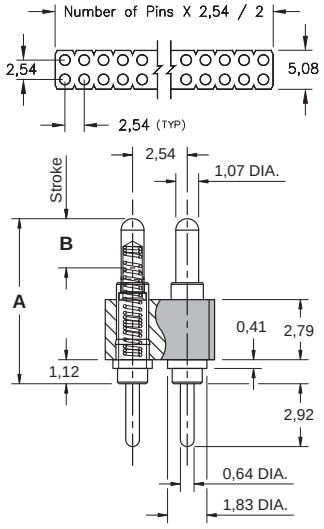


- Modular contacts for use on 2,54 grid, available in four heights from 7,67 to 9,96, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 825 & 827 series contact strips are designed for manual placement into Ø0,76±0,08 plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 825



DOUBLE ROW Series 827



ORDERING INFORMATION

Single Row Series 825

825-22-0XX-10-00X101

Specify number of contacts 02-64 — **Specify contact style** 1-4

Double Row Series 827

827-22-0XX-10-00X101

Specify number of contacts 04-72 — **Specify contact style** 1-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
1	7,67	2,29
2	8,43	2,29
3	9,19	2,29
4	9,96	2,29

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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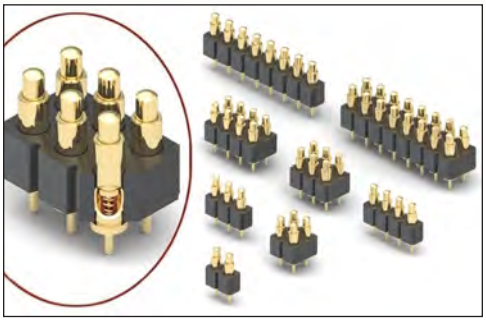
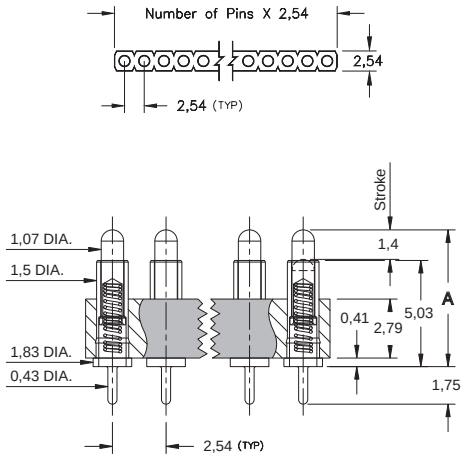
SPRING-LOADED CONNECTORS

SERIES 816 & 818 • 2,54 GRID THROUGH-HOLE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS

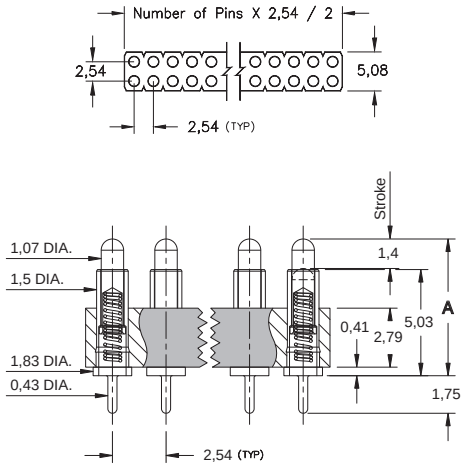


- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 0,7 mid stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 816 & 818 series contact strips are designed for manual placement into Ø 0,58±0,08 plated through-holes in the circuit board prior to intrusive reflow soldering

SINGLE ROW Series 816...00X101



DOUBLE ROW Series 818...00X101



ORDERING INFORMATION

Single Row Series 816...00X101

816-22-0XX-10-00X101

Specify number of contacts 02-64 — **Specify contact style** 0-9

Double Row Series 818...00X101

818-22-0XX-10-00X101

Specify number of contacts 04-72 — **Specify contact style** 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm, gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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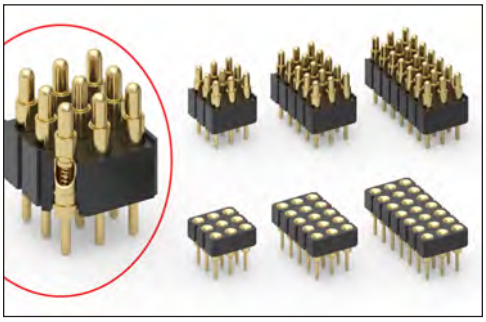
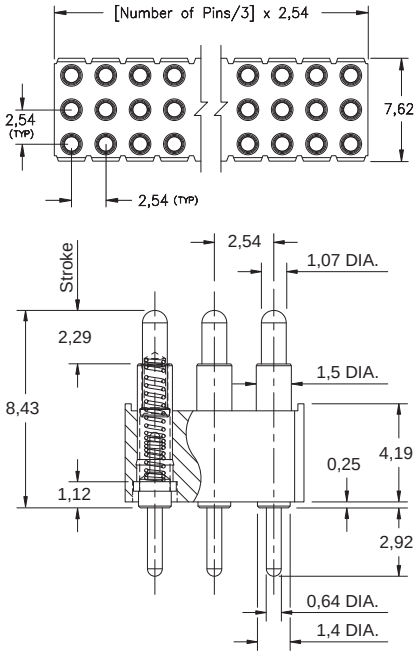
SPRING-LOADED CONNECTORS

SERIES 804 & 805 • 2,54 GRID THROUGH-HOLE MOUNT • LONG STROKE TRIPLE ROW STRIPS AND MATING TARGET CONNECTORS

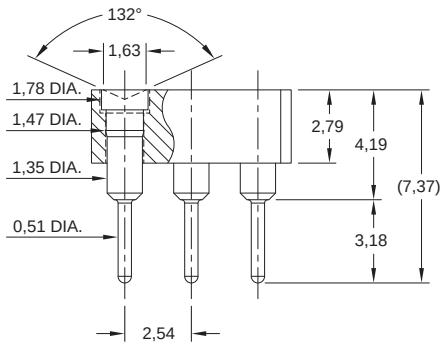


- Modular contacts for use on 2,54 grid, supplied in triple row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Spring pins have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- 804 & 805 series High temperature thermoplastic insulators are suitable for wave and reflow processes
- 804 series contact strips are designed for manual placement into Ø 0,89±0,08 plated through-holes in the circuit board prior to hand, wave or reflow soldering
- 805 series Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. This series is offered with a concave face for making contact with our standard 1,07 dia. spring pin plungers

TRIPLE ROW Series 804



TRIPLE ROW Series 805



ORDERING INFORMATION

Triple Row Series 804

804-22-0XX-10-004101

Specify number of contacts 09-96

Triple Row Mating Target Series 805

805-10-0XX-00-006000

Specify number of contacts 09-96

Technical Specifications for 804 Series

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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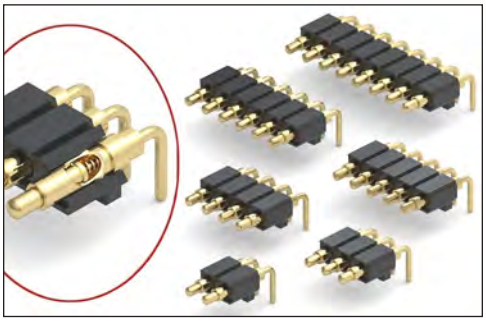
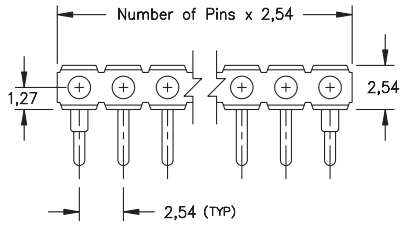
SPRING-LOADED CONNECTORS

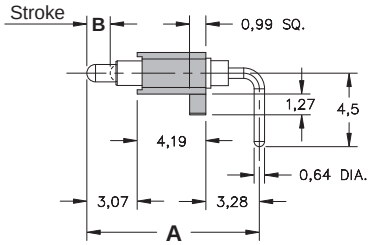
SERIES 829 • 2,54 GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS



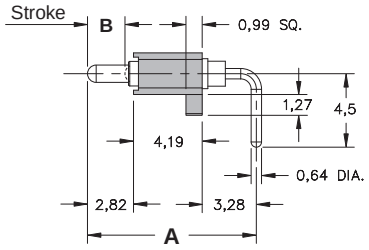
- Modular contacts for use on 2,54 grid. Supplied in single row strips with mounting pegs for support
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- 829 series contact strips are designed for manual placement into Ø 0,81±0,08 plated through-holes in the circuit board prior to wave or reflow soldering

SINGLE ROW Series 829



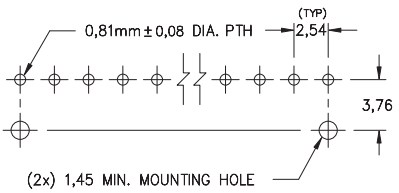


Contact style 1 only



Contact style 2 only

Suggested P.C.B Footprint



ORDERING INFORMATION

Single Row Series 829

829-22-0XX-20-00X101

Specify number of contacts 01-20

Specify contact style 1 or 2

CONTACT STYLE	INITIAL LENGTH A	MAX. STROKE B
1	10,54	1,4
2	10,31	2,3

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial length (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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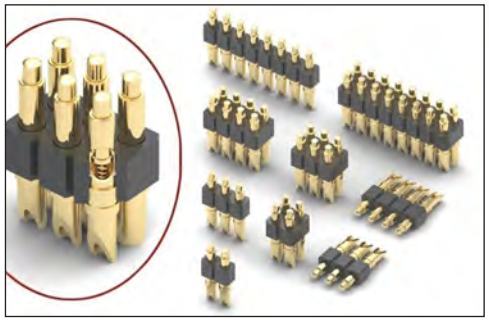
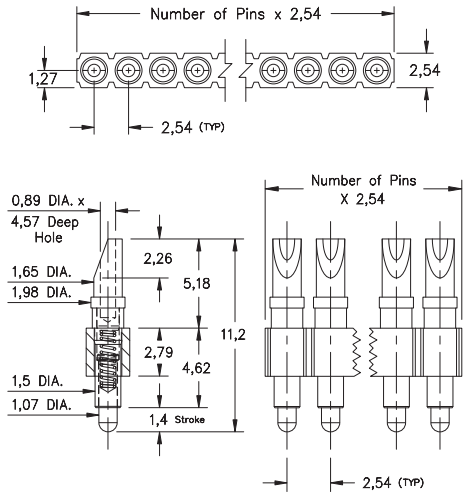
SPRING-LOADED CONNECTORS

SERIES 824 & 826 • 2,54 GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

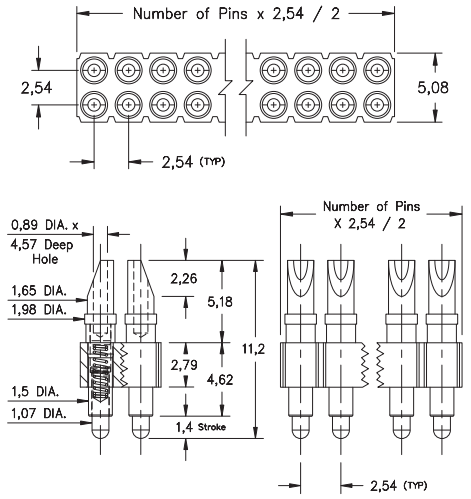


- Modular contacts for use on 2,54 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 22 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-001000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-001000

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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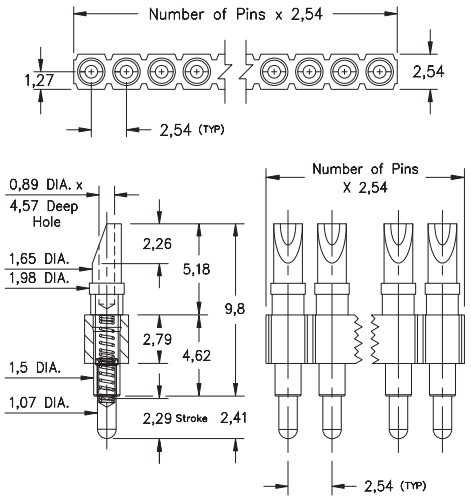
SPRING-LOADED CONNECTORS

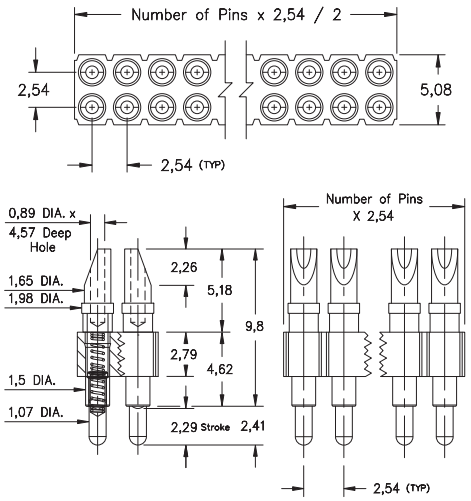
SERIES 824 & 826 • 2,54 GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

- Modular contacts for use on 2,54 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 24 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-005000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-005000

Specify number of contacts 02-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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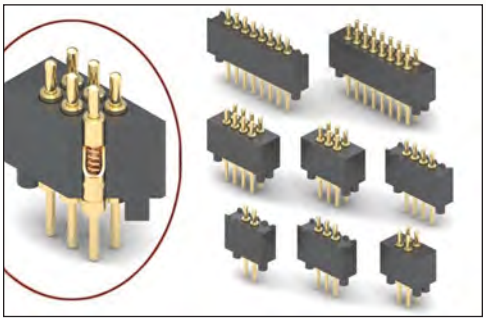
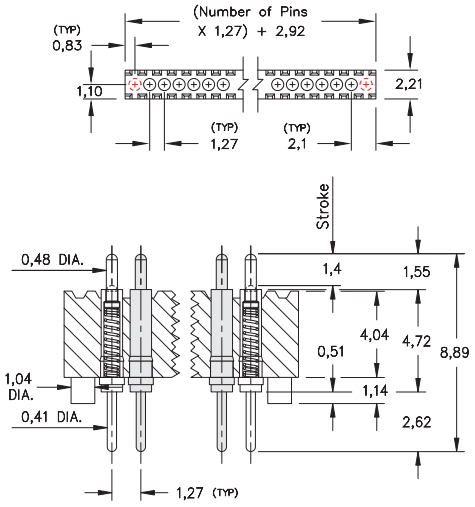
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • 1,27 GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

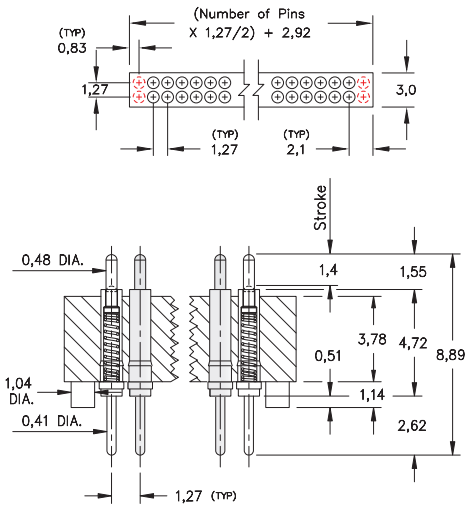


- Modular contacts for use on 1,27 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 854 & 855 series contact strips are designed for manual placement into Ø 0,58±0,08 plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-10-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-10-001101

Specify number of contacts 04-40

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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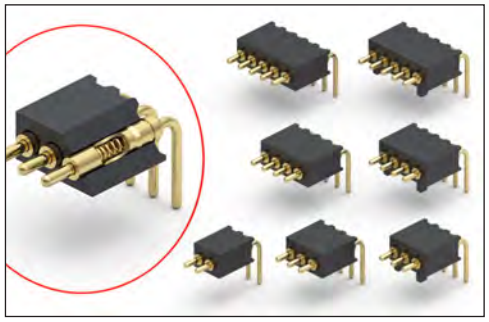
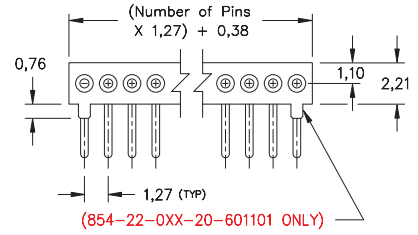
SPRING-LOADED CONNECTORS

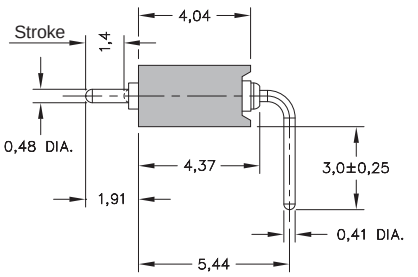
SERIES 854 • 1,27 GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS



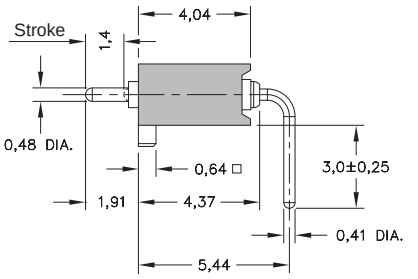
- Modular contacts for use on 1,27 grid. Supplied in single row strips with or without mounting pegs
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a 0,7 mid. stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow soldering processes
- 854 series contact strips are designed for through-hole mounting in the circuit board

SINGLE ROW Series 854



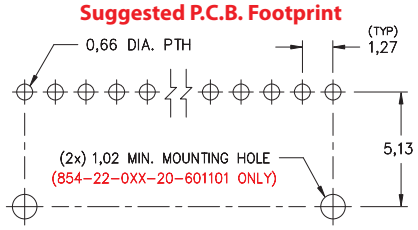


854 Series without Mounting Pegs



854 Series with Mounting Pegs

Suggested P.C.B. Footprint



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-20-001101

Specify number of contacts 01-20

Single Row with Mounting Pegs Series 854

854-22-0XX-20-601101

Specify number of contacts 01-20

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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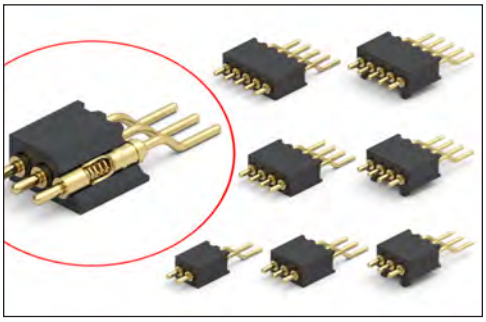
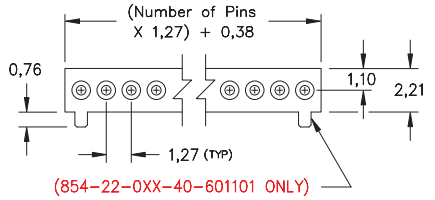
SPRING-LOADED CONNECTORS

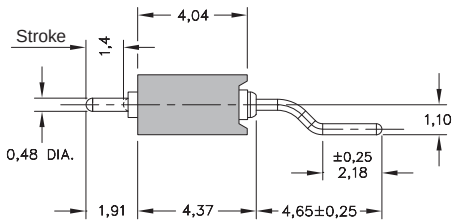
SERIES 854 • 1,27 GRID Z-BEND SURFACE MOUNT • SINGLE ROW STRIPS



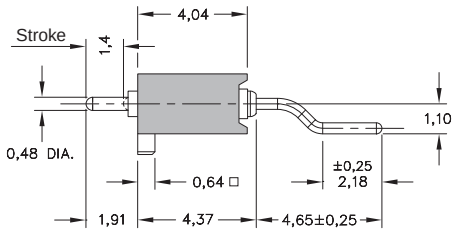
- Modular contacts for use on 1,27 grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a 0,7 mid. stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount soldering processes
- 854 series contact strips are designed for SMT termination onto printed circuit boards

SINGLE ROW Series 854





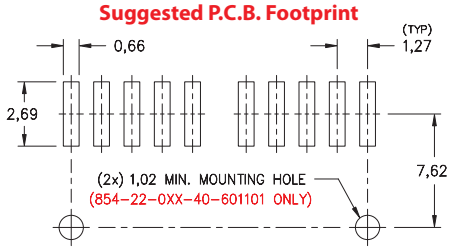
854 Series without Mounting Pegs



854 Series with Mounting Pegs

Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

Suggested P.C.B. Footprint



ORDERING INFORMATION

Series 854 without Mounting Pegs (Bulk Packaged)

854-22-0XX-40-001101

Specify number of contacts 01-20

Series 854 with Mounting Pegs (Bulk Packaged)

854-22-0XX-40-601101

Specify number of contacts 01-20

Series 854 with Mounting Pegs (Tape & Reel Packaged, 2,400 parts per reel)

854-22-0XX-40-601191

Specify number of contacts 02

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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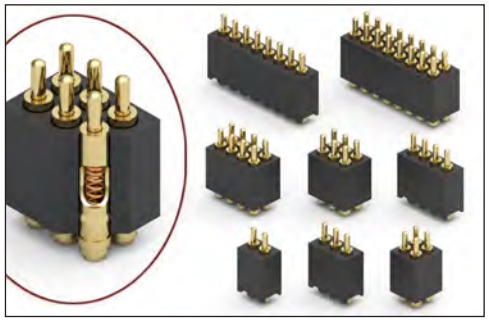
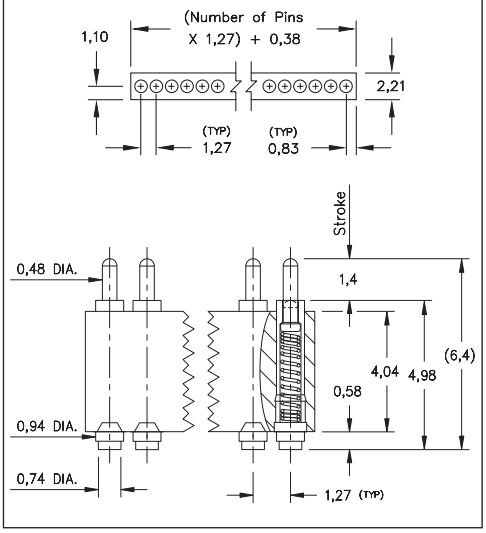
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • 1,27 GRID SURFACE MOUNT, HIGH DENSITY • SINGLE AND DOUBLE ROW STRIPS

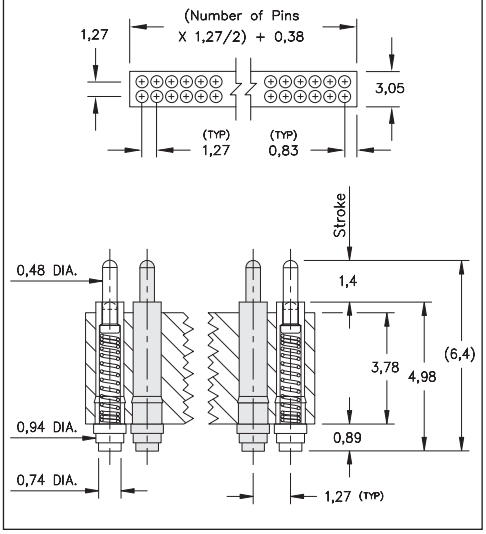


- Modular contacts for use on 1,27 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 854 & 855 series contact strips are designed for manual placement onto 1,02 Ø solder pads
- 855 series is also available on tape & reel packaging, see page 19.1

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-30-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-30-001101

Specify number of contacts 04-40

For 855 Tape & Reel packaging, see page 19.1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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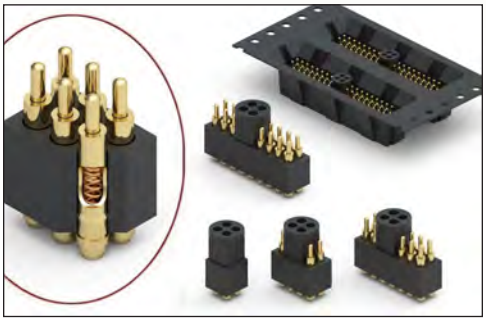
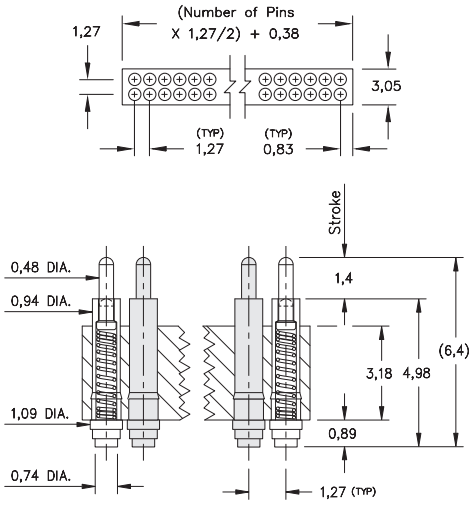
SPRING-LOADED CONNECTORS

SERIES 855 • 1,27 GRID SURFACE MOUNT, HIGH DENSITY • DOUBLE ROW STRIPS ON TAPE & REEL

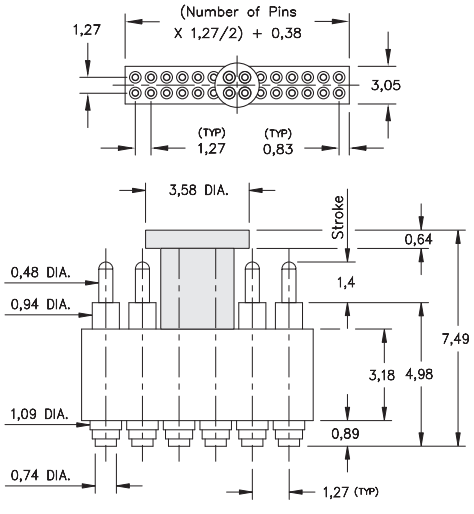


- Modular contacts for use on 1,27 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 855 series is available on carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. For details contact Mill-Max Technical support

DOUBLE ROW Series 855



Series 855 w/ removable pick n place cap



ORDERING INFORMATION

Double Row Series 855

855-22-0XX-30-002191

Specify number or pins
04-40

Tape & reel packaged = 191
660 parts per 330mm reel

Positions: 6, 10, 14, 18, 22, 26, 30, 34, 38 the Pick n Place Vacuum Cap will be offset from center by 0,64mm

Positions: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 the Pick n Place Vacuum Cap will be centered

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
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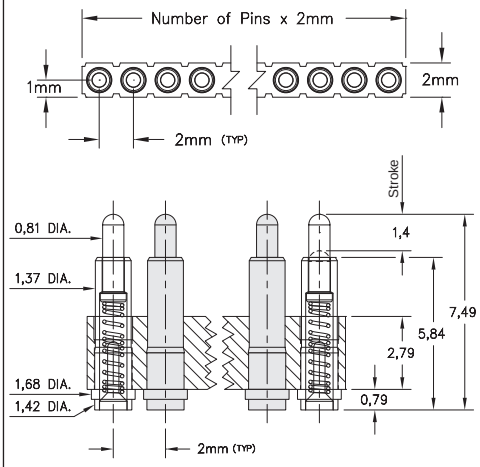
SPRING-LOADED CONNECTORS

SERIES 836 & 838 • 2mm GRID SURFACE MOUNT • SINGLE AND DOUBLE ROW STRIPS

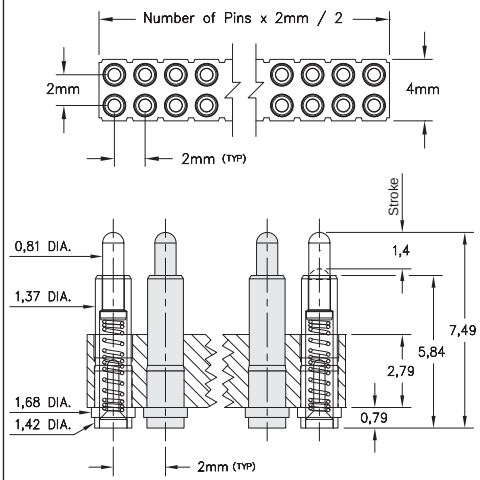
- Modular contacts for use on 2mm grid, available in single and double row contact strips with rated travel of 0,7 and max. stroke of 1,4
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 836 & 838 series, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 836 & 838 series contact strips are designed for manual or automatic placement onto 1,68 Ø solder pads

SINGLE ROW Series 836



Coplanarity 0,13. For Pin Counts >10 positions consult Technical Support

DOUBLE ROW Series 838



Coplanarity 0,13. For Pin Counts >20 positions consult Technical Support

ORDERING INFORMATION

Series 836 (Bulk Packaged)

836-22-0XX-30-001101

Specify number of contacts 02-10

Series 836 (Tape & Reel Packaged, 400 parts per 330mm Reel)

836-22-0XX-30-001191

Specify number of contacts 02-10

Series 838 (Bulk Packaged)

838-22-0XX-30-001101

Specify number of contacts 04-20

Series 838 (Tape & Reel Packaged, 400 parts per 330mm Reel)

838-22-0XX-30-001191

Specify number of contacts 04-20

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µmgold over 2,54µm nickel
Spring: Stainless Steel-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2 2011/65/EU

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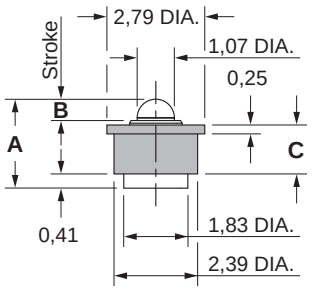
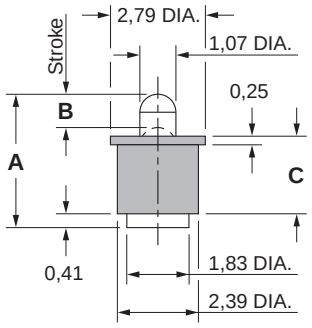
SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • SURFACE MOUNT

- Discrete insulated spring-loaded pins; available in seven heights from 2,54 to 5,99, with rated travel from 0,3 to 0,7
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- 807 series, contact styles 0 through 6, are available in bulk or on 16mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

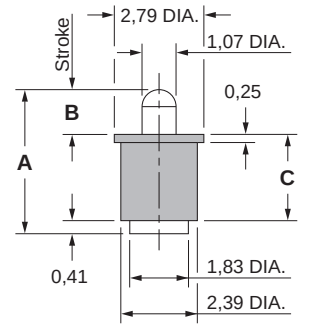
Series 807 (Contact Style 0)



Series 807 (Contact Style 1 & 2)



Series 807 (Contact Style 3-6)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-30-00X101

Specify contact style 0-6

Series 807 (Tape & Reel Packaged)

807-22-001-30-00X191

Specify contact style 0-6

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Quantity per Reel
0	2,54	0,3	0,51-0,61	1,39	2,620
1	3,48	0,5	0,76-0,99	2,08	1,750
2	3,94	0,5	0,89-0,99	2,29	1,750
3	4,50	0,7	1,14-1,4	2,69	1,055
4	5,0	0,7	1,14-1,4	3,2	780
5	5,51	0,7	1,14-1,4	3,71	780
6	5,99	0,7	1,14-1,4	4,19	780

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 0): Stainless Steel-plated 0,25µm gold
Spring (Contact style 1-6): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-6): 25 grams
Spring force @ mid stroke (B/2) (Contact style 0): 70 grams
Spring force @ mid stroke (B/2) (Contact style 1-6): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

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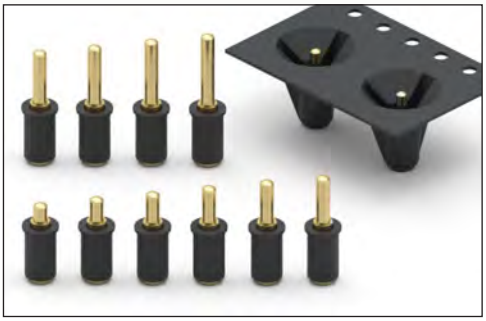
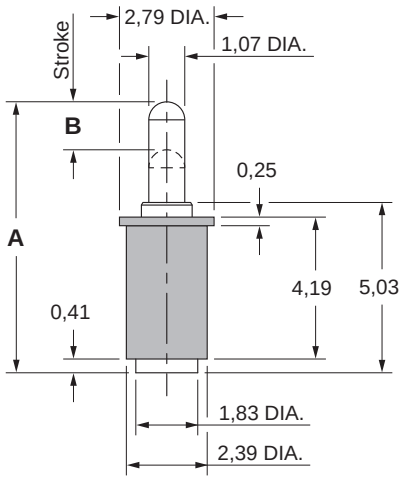
SPRING-LOADED CONNECTORS

SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • SURFACE MOUNT

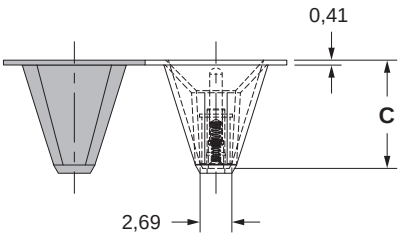


- Discrete insulated spring-loaded pins; available in ten heights from 6,48 to 10,92, with rated travel of 0,7
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most SMT soldering processes
- 807 series, contact styles 0 through 9, are available in bulk or on 16mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

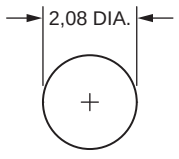
Series 807 (Contact Style 0-9)



Series 807 (Tape Pocket Depth)



Series 807 (Suggested footprint layout)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-30-01X101

Specify contact style 0-9

Series 807 (Tape & Reel Packaged)

807-22-001-30-01X191

Specify contact style 0-9

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Tape Depth (C)	Quantity per Reel
0	6,48	0,7	1,14-1,4	7,24	750
1	6,99	0,7	1,14-1,4	7,24	750
2	7,49	0,7	1,14-1,4	8,28	600
3	8,0	0,7	1,14-1,4	8,28	600
4	8,51	0,7	1,14-1,4	9,17	550
5	8,89	0,7	1,14-1,4	9,17	550
6	9,4	0,7	1,14-1,4	10,19	475
7	9,91	0,7	1,14-1,4	10,19	475
8	10,41	0,7	1,14-1,4	11,2	430
9	10,92	0,7	1,14-1,4	11,2	430

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 0-9): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-9): 25 grams
Spring force @ mid stroke (B/2) (Contact style 0-9): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

RoHS-2 2011/65/EU

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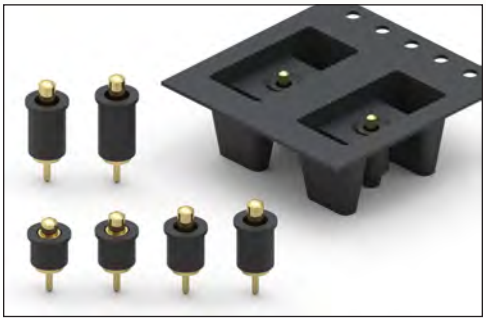
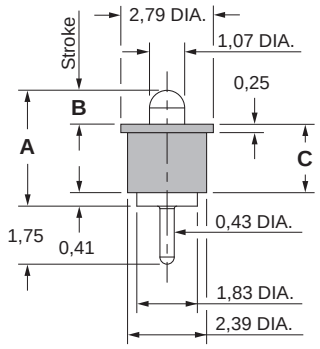
SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • THROUGH-HOLE MOUNT

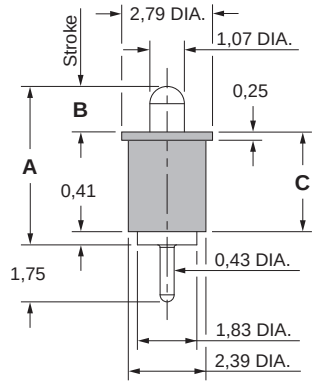


- Discrete insulated spring-loaded pins; available in six heights from 3,48 to 6,0, with rated travel of 0,5 & 0,7
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most SMT soldering processes
- 807 series, contact styles 1 through 6, are available in bulk or on 24mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

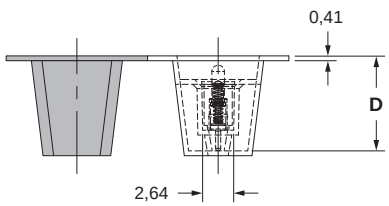
Series 807 (Contact Style 1 & 2)



Series 807 (Contact Style 3, 4, 5 & 6)



Series 807 (Tape Pocket Depth)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-10-00X101

Specify contact style 1-6

Series 807 (Tape & Reel Packaged)

807-22-001-10-00X191

Specify contact style 1-6

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	3,48	0,5	0,76-1,0	2,08	6,0	880
2	3,94	0,5	0,89-1,0	2,29	6,0	880
3	4,5	0,7	1,14-1,4	2,69	7,07	745
4	5,0	0,7	1,14-1,4	3,2	7,07	745
5	5,51	0,7	1,14-1,4	3,71	8,06	640
6	6,0	0,7	1,14-1,4	4,19	8,06	640

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 1-6): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-6): 25 grams
Spring force @ mid stroke (B/2) (Contact style 1-6): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

RoHS-2 2011/65/EU

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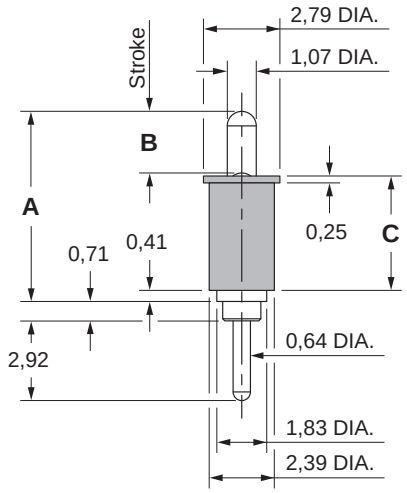
SPRING-LOADED CONNECTORS

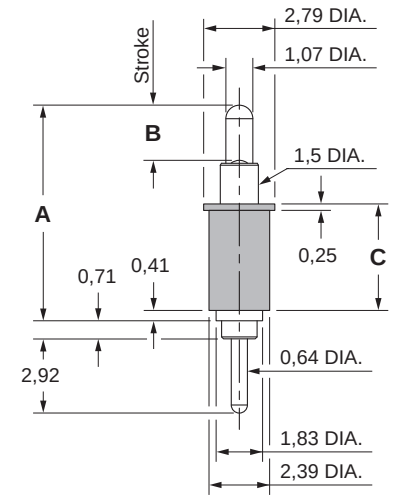
SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • THROUGH-HOLE MOUNT

- Discrete insulated spring-loaded pins; available in four heights from 6,96 to 9,25, with rated travel of 1,14
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most soldering processes
- 807 series, contact styles 0 through 3, are packaged in bulk. See below for ordering information

Series 807 (Contact Style 0)



Series 807 (Contact Style 1 - 3)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-10-02X101

Specify contact style 0-3

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)
0	6,96	1,14	2,16-2,29	4,19
1	7,72	1,14	2,16-2,29	4,19
2	8,48	1,14	2,16-2,29	4,19
3	9,25	1,14	2,16-2,29	4,19

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 0-3): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-3): 25 grams
Spring force @ mid stroke (B/2) (Contact style 0-3): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

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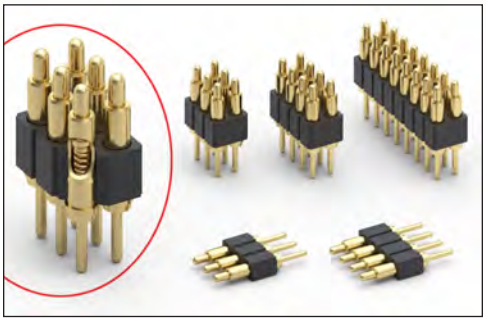
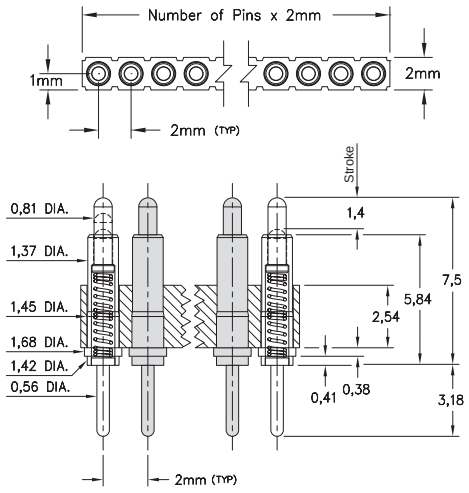
SPRING-LOADED CONNECTORS

SERIES 836 & 838 • 2MM GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

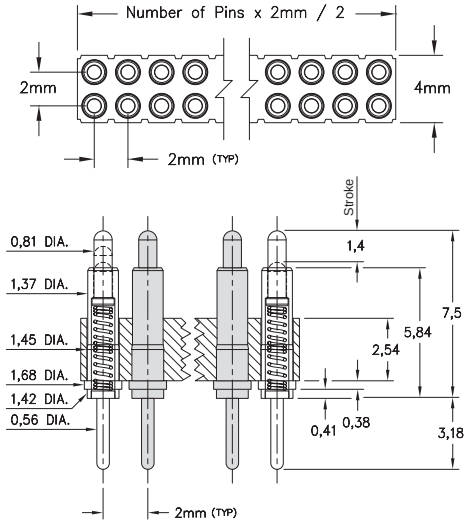


- Modular contacts for use on 2mm grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 836 & 838 series contact strips are designed for manual placement into Ø 0,76±0,08 plated through-holes in the circuit board prior to soldering

SINGLE ROW Series 836



DOUBLE ROW Series 838



ORDERING INFORMATION

Single Row Series 836

836-22-0XX-10-001101

Specify number of contacts 01-50

Double Row Series 838

838-22-XXX-10-001101

Specify number of contacts 04-100

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2 2011/65/EU

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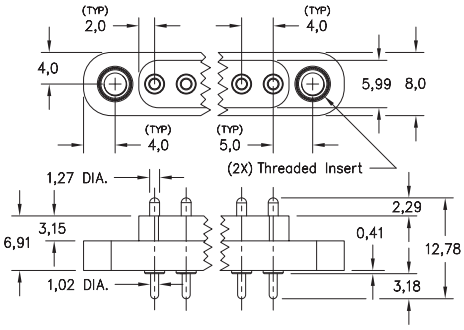
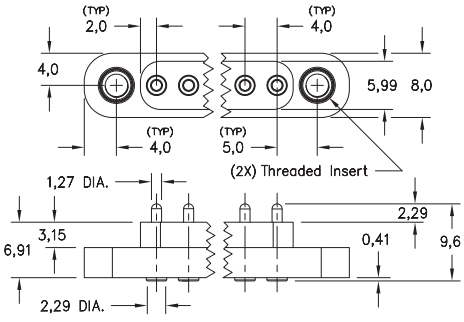
SPRING-LOADED CONNECTORS

SERIES 858 • 4MM GRID RUGGED CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

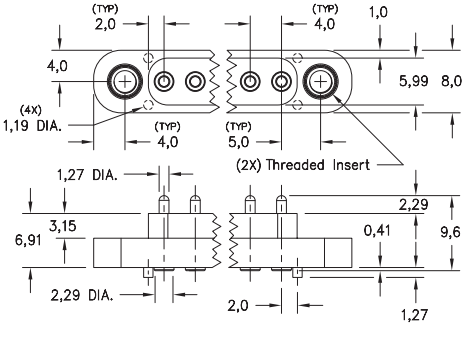
Series 858-22-00X-10-0X1101



Series 858-22-00X-30-0X1101



Series 858-22-00X-30-6X1101



- Rugged Modular contacts for use on 4mm grid, supplied in 2 - 6 position connectors
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability. Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- Low resistance, high current contacts are rated at 9 amps @ 10°C Temperature rise
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Series 858-22-00X-10-0X1101 connectors are designed for manual placement into 1,22±0,076 Ø plated through-holes in the circuit board prior to soldering
- Series 858-22-00X-30-0X1101 and 858-22-00X-30-6X1101 connectors are designed for manual placement onto 2,54 Ø solder pads

ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-22-00X-10-0X1101

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-22-00X-30-0X1101

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-22-00X-30-6X1101

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 5,08µm gold over 2,54µm nickel
Spring: Stainless Steel 302
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 35 grams
Spring force @ mid stroke: 120 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 9A @ 10° C Temp. rise above ambient (20°C)
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

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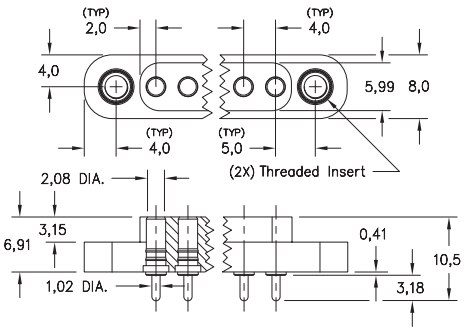
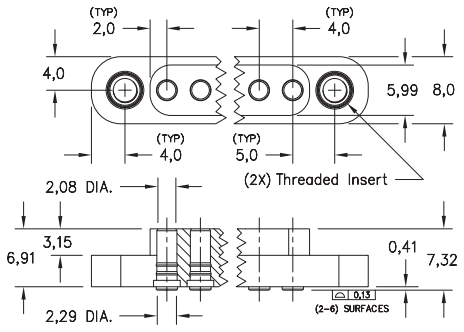
SERIES 858 • 4MM GRID RUGGED FLAT FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

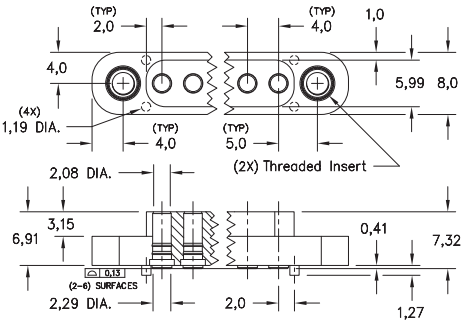
Series 858-10-00X-10-0X1000



Series 858-10-00X-30-0X1000



Series 858-10-00X-30-6X1000



- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-0 and #1969-0 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X1000 connectors are designed for manual placement into 1,22±0,76 Ø plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X1000 and 858-10-00X-30-6X1000 connectors are designed for manual placement onto 2,54 Ø minimum solder pads

ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-10-00X-10-0X1000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-10-00X-30-0X1000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-10-00X-30-6X1000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25 µm Au			

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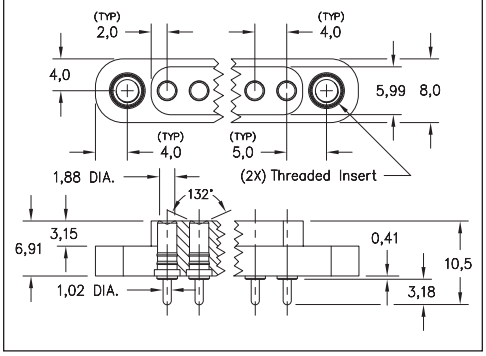
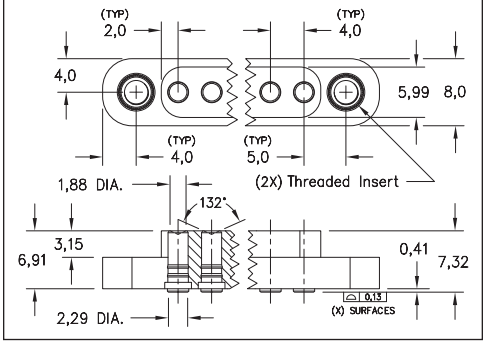
SERIES 858 • 4MM GRID RUGGED CONCAVE FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

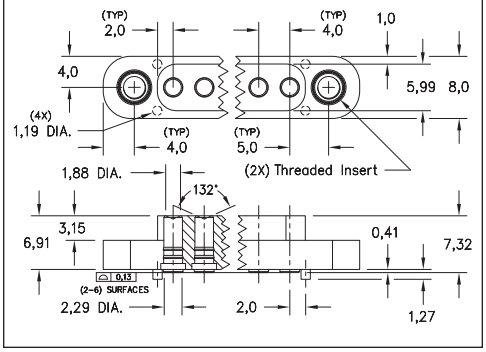
Series 858-10-00X-10-0X2000



Series 858-10-00X-30-0X2000



Series 858-10-00X-30-6X2000



- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring -loaded connectors. These series are offered with a concave face providing additional surface area for mating with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-1 and #1969-1 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X2000 connectors are designed for manual placement into 1,22±0,76 Ø plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X2000 and 858-10-00X-30-6X2000 connectors are designed for manual placement onto 2,54 Ø minimum solder pads

ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-10-00X-10-0X2000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-10-00X-30-0X2000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-10-00X-30-6X2000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

RoHS - 2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

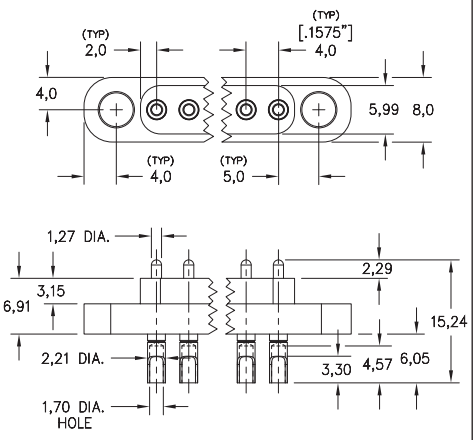
SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25 µm Au			

SPRING-LOADED CONNECTORS

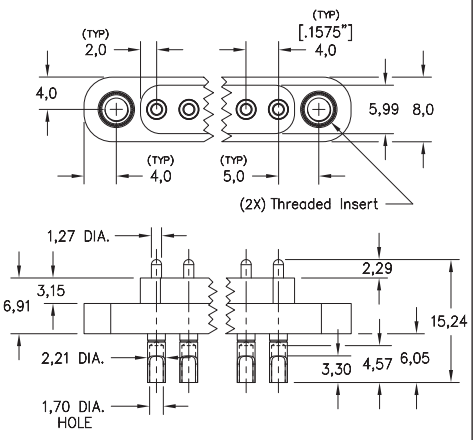
SERIES 868 • 4MM GRID RUGGED CONNECTORS • SOLDERCUP TERMINATION

- Rugged Modular contacts for use on 4mm grid, supplied in 2 - 6 position connectors
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability. Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Mounting tabs provide a means for secure attachment to PCB's, cable assemblies or other housings and may be specified with or without threaded inserts.
- High temperature thermoplastic insulators are suitable for most automated and manual soldering processes
- Series 868-22-00X-00-0X101 connectors are ideal for use with Mill-Max 858 and 868 series SMT, through hole or wire termination target connectors
- Solder cup termination accommodates up to 16 AWG wire
- Series 868-22-00X-00-0X101 use 0868-0 spring-loaded pins. See page 23.1 for details

Series 868-22-00X-00-001101



Series 868-22-00X-00-011101



ORDERING INFORMATION

Series 868 (Through-Hole Mount)

868-22-00X-00-001101

Specify number of pins 2-6

No Threaded inserts

Series 868 (Through-Hole Mount)

868-22-00X-00-011101

Specify number of pins 2-6

(#4-40) Threaded inserts

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Stainless Steel 302 plated 0,25µm gold over nickel
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 35 grams
Spring force @ mid stroke: 120 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 9A @ 10° C Temp. rise above ambient (20°C)
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

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2011/65/EU

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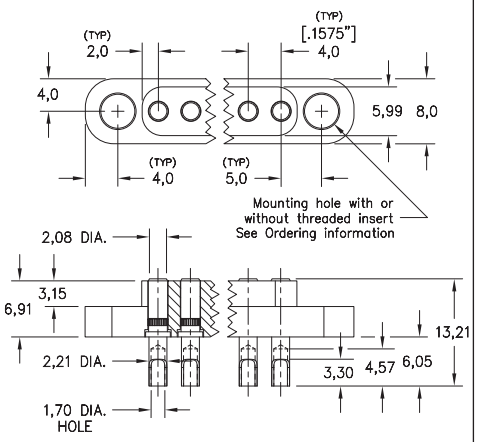
SPRING-LOADED CONNECTORS

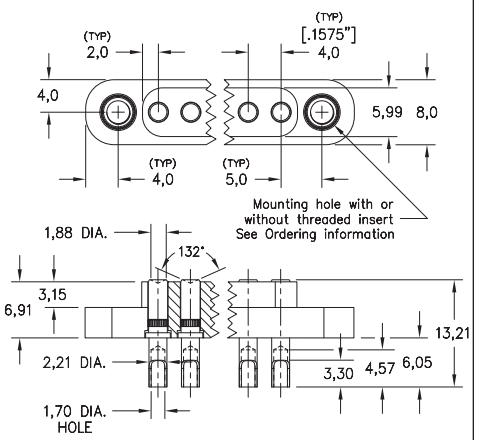
SERIES 868 • 4MM GRID RUGGED TARGET CONNECTORS
FLAT & CONCAVE FACE • SOLDERCUP TERMINATION

- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with flat or concave face, providing additional surface area, for mating with Mill-Max 858 and 868 series SMT, through hole or wire termination spring loaded connectors
- Mounting tabs provide a means for secure attachment to PCB's, cable assemblies or other housings and may be specified with or without threaded inserts.
- High temperature thermoplastic insulators are suitable for most automated and manual soldering processes
- Solder cup termination accommodates up to 16 AWG wire
- Series 868-10-00X-00-0X100 use MM #1968-0 target pins & Series 868-10-00X-00-0X200 use #1968-1 target pins. See page 223.5 for details

Series 868-10-00X-00-0X1000



Series 868-10-00X-00-0X2000



ORDERING INFORMATION

Series 868 (Flat Face Through-Hole Mount)

868-10-00X-00-0X1000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 868 (Concave Face Through-Hole Mount)

868-10-00X-00-0X2000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

RoHS - 2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25 µm Au			

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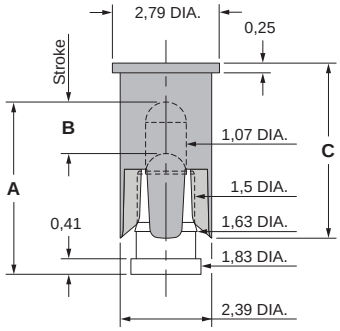
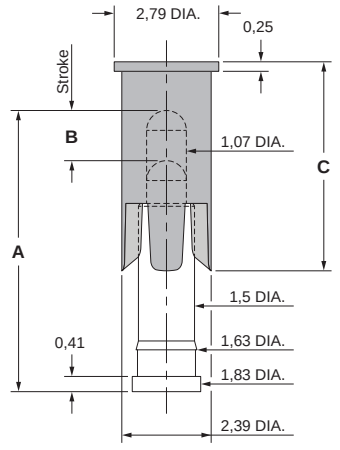
SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • SURFACE MOUNT

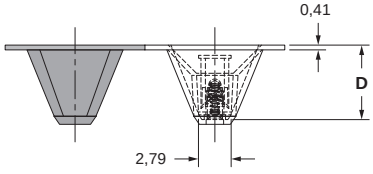
Series 806 (Contact Style 1,2,3,4,10,11)



Series 806 (Contact Style 12,13 & 14)



Series 806 (Tape Pocket Depth)



- Surface mount spring-loaded pins with removable pick & place cap are available in nine heights from 3,5 to 7,5 with a rated travel of either 0,5 or 0,7
- Spring pins used in this series are Mill-Max 0900-X and 0907-X (see page 23 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board.
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 16 mm wide carrier tape, 330mm reels; packaging per EIA-481. See below for ordering information

ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-30-0XX191

Specify contact style 1-4
Specify contact style 10-14

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	3,5	0,5	0,76-1,0	4,57	6,4	780
2	3,94	0,5	0,76-1,0	4,57	6,4	780
3	4,5	0,7	1,27-1,4	4,57	6,4	780
4	5,0	0,7	1,27-1,4	4,57	6,4	780
10	5,51	0,7	1,27-1,4	5,59	7,24	750
11	5,99	0,7	1,27-1,4	5,59	7,24	750
12	6,48	0,7	1,27-1,4	5,59	9,17	550
13	6,99	0,7	1,27-1,4	5,59	9,17	550
14	7,49	0,7	1,27-1,4	5,59	9,17	550

Technical Specifications

Materials:
Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 1-14): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:
Spring force @ initial height (A) (Contact style 1-14): 25 grams
Spring force @ mid stroke (B/2) (Contact style 1-14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:
Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

RoHS-2 2011/65/EU

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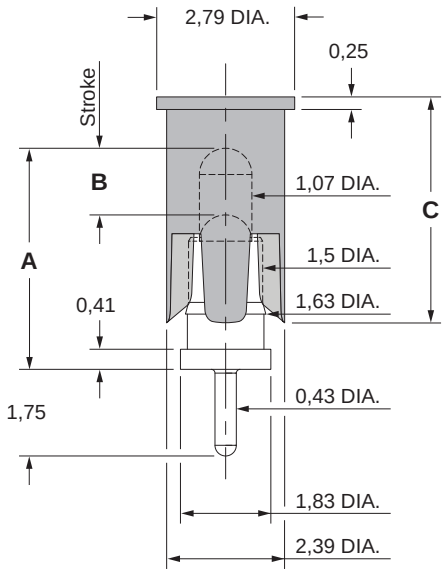
SPRING-LOADED CONNECTORS

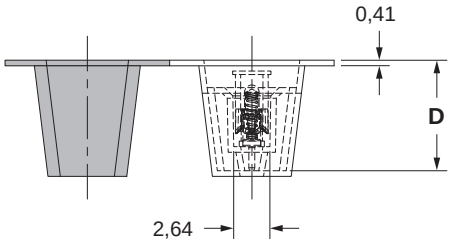
SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • THROUGH-HOLE MOUNT

- Through hole mount spring-loaded pins with removable pick & place cap are avaiable in four heights from 3,5 to 5,0 with a rated travel of either 0,5 or 0,7
- Spring pins used in this series are Mill-Max 0906-X (see page 25 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 24 mm wide carrier tape, 330mm reels; packaging per EIA-481. See below for ordering information

Series 806 (Contact Style 1-4)



Series 806 (Tape Pocket Depth)



ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-10-00X191

Specify contact style 1-4

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	3,5	0,5	0,76-1,0	4,57	8,05	640
2	3,94	0,5	0,76-1,0	4,57	8,05	640
3	4,5	0,7	1,27-1,4	4,57	8,05	640
4	5,0	0,7	1,27-1,4	4,57	8,05	640

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring (Contact style 1-4): Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-4): 25 grams
Spring force @ mid stroke (B/2) (Contact style 1-4): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

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SPRING-LOADED CONNECTORS

SERIES 319, 330 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

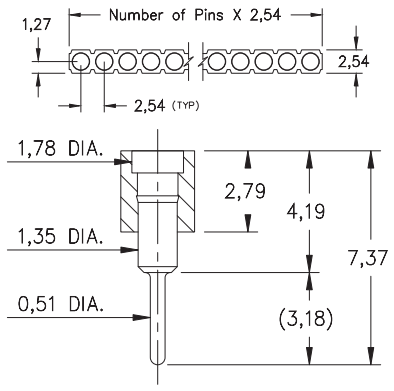

FIG. 1

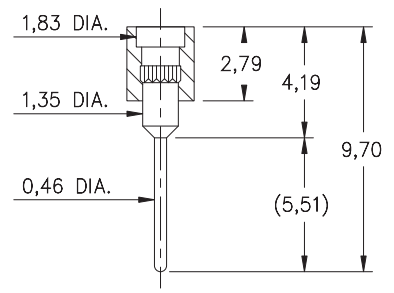

FIG. 2

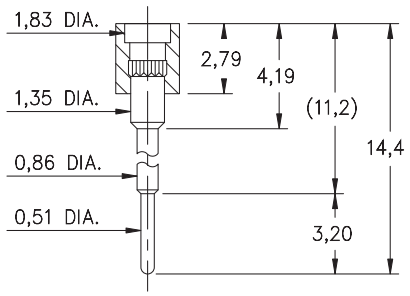

FIG. 3

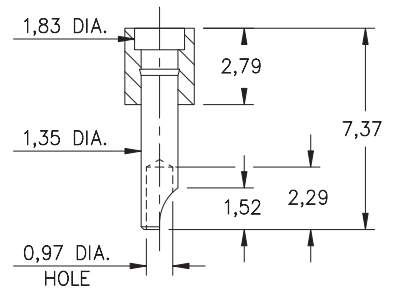

FIG. 4

- Series 319 and 330 Spring Target Connectors, supplied in single row strips. Available in through-hole and wire termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1938, #1940, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic

ORDERING INFORMATION

FIG. 1	**Series 319...001**	**Standard Solder Tails**
	319-10-1_ _-00-001000 **Specify number of pins** ← 01-64	
FIG. 2	**Series 319...002**	**Long Solder Tails**
	319-10-1_ _-00-002000 **Specify number of pins** ← 01-64	
FIG. 3	**Series 319...005**	**Elevated with Solder Tails**
	319-10-1_ _-00-005000 **Specify number of pins** ← 01-64	
FIG. 4	**Series 330...240**	**Solder Cups**
	330-10-1_ _-00-240000 **Specify number of pins** ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 319, 399 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

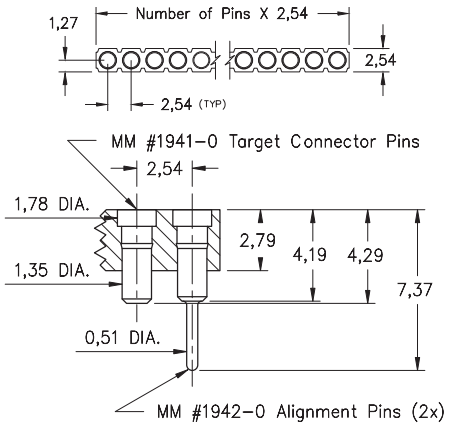
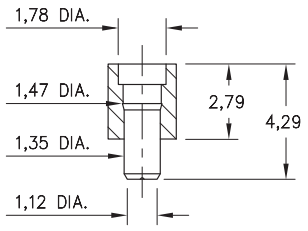
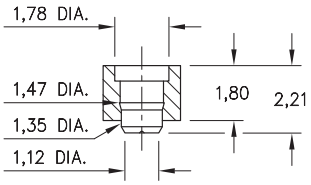


FIG. 1



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 3

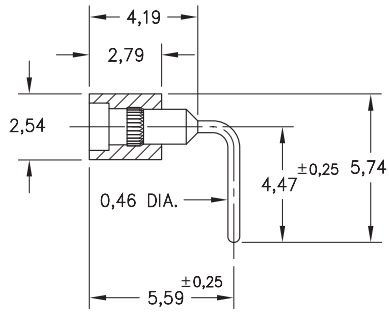
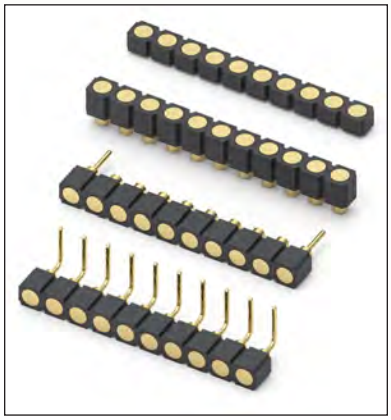


FIG. 4

- Series 319 and 399 Spring Target Connectors, supplied in single row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1940, #1941/1942, #1953 and #1954 pins. See pages 218 & 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 319...041**	**Surface Mount w/ Alignments Pins**
	319-10-1__-30-041000	
	Specify number of pins	03-64
FIG. 2	**Series 319...008**	**Surface Mount**
	319-10-1__-30-008000	
	Specify number of pins	01-64
FIG. 3	**Series 319...054**	**Low Profile Surface Mount**
	319-10-1__-30-054000	
	Specify number of pins	01-64
FIG. 4	**Series 399...008**	**Right Angle Solder Tails**
	399-10-1__-10-008000	
	Specify number of pins	01-64

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XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 319, 399 • 2,54 GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

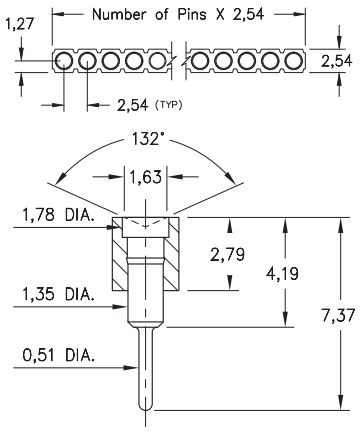
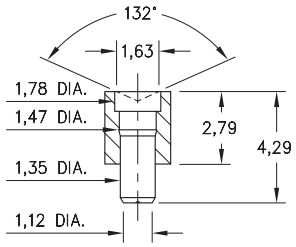
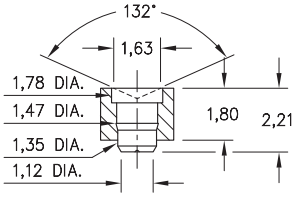


FIG. 1



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 3

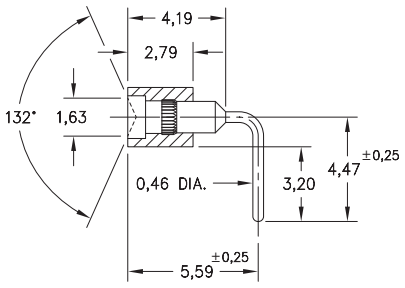
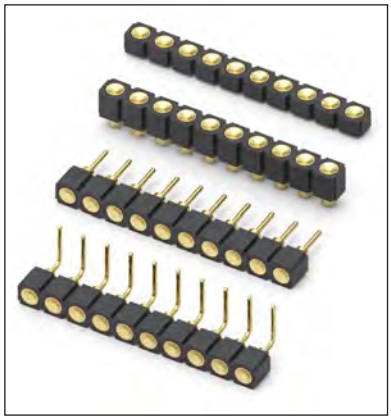


FIG. 4

- Series 319 and 399 Spring Target Connectors, supplied in single row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1948, #1955, #1957 and #1960 pins. See pages 223.1, 223.2 and 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 319...006**	**Standard Solder Tails**
	319-10-1__-00-006000 **Specify number of pins** ↑ 01-64	
FIG. 2	**Series 319...007**	**Surface Mount**
	319-10-1__-30-007000 **Specify number of pins** ↑ 01-64	
FIG. 3	**Series 319...055**	**Low Profile Surface Mount**
	319-10-1__-30-055000 **Specify number of pins** ↑ 01-64	
FIG. 4	**Series 399...007**	**Right Angle Solder Tails**
	399-10-1__-10-007000 **Specify number of pins** ↑ 01-64	

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XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SERIES 419, 430 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

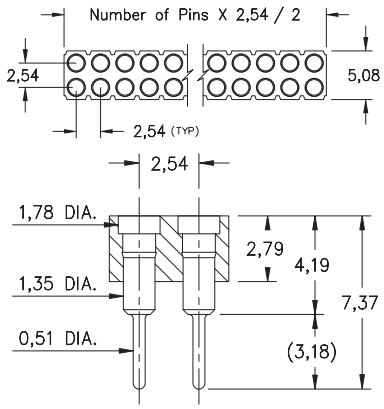


FIG. 1

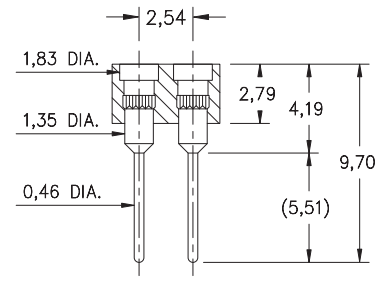


FIG. 2

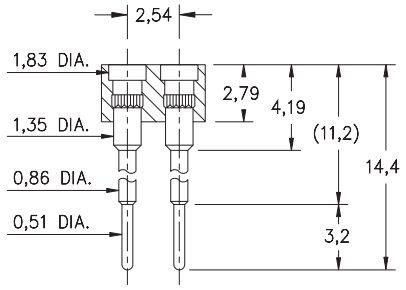


FIG. 3

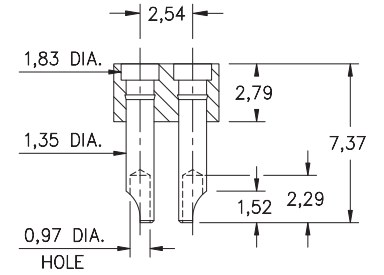
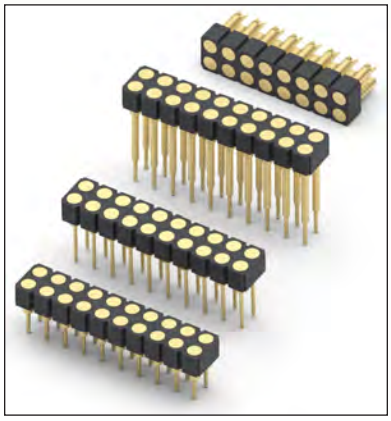


FIG. 4

- Series 419 and 430 Spring Target Connectors, supplied in double row strips. Available in through-hole and wire termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1938, #1940, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 419...001**	**Standard Solder Tails**
	419-10-2__-00-001000 **Specify number of pins** ↑ 04-64	
FIG. 2	**Series 419...002**	**Long Solder Tails**
	419-10-2__-00-002000 **Specify number of pins** ↑ 04-64	
FIG. 3	**Series 419...005**	**Elevated with Solder Tails**
	419-10-2__-00-005000 **Specify number of pins** ↑ 04-64	
FIG. 4	**Series 430...240**	**Solder Cups**
	430-10-2__-00-240000 **Specify number of pins** ↑ 04-64	

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SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 419, 499 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

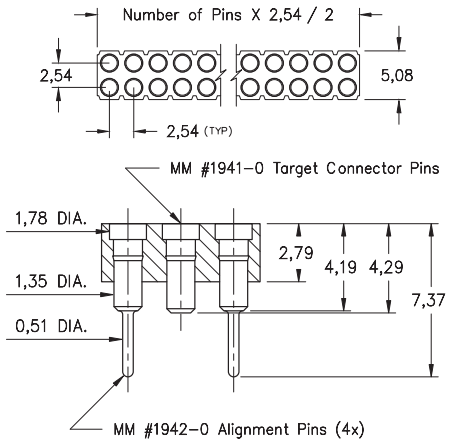
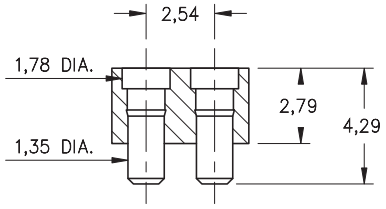
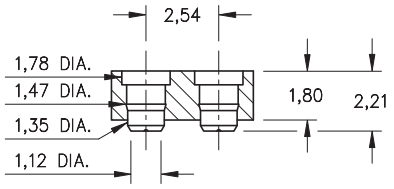


FIG. 1



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 3

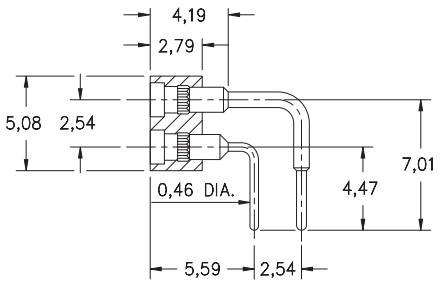
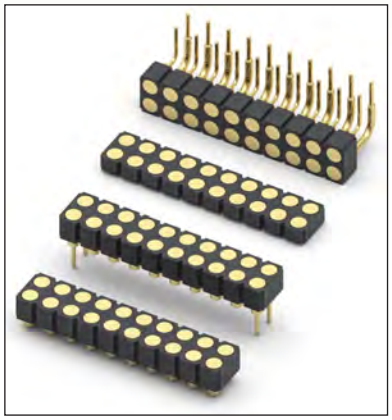


FIG. 4

- Series 419 and 499 Spring Target Connectors, supplied in double row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1940, #1941/1942, #1953 and #1954 pins. See pages 218 & 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 419...042**	**Surface Mount w/ Alignments Pins**
	419-10-2__-30-042000	
	Specify number of pins	06-72
FIG. 2	**Series 419...041**	**Surface Mount**
	419-10-2__-30-041000	
	Specify number of pins	04-72
FIG. 3	**Series 419...054**	**Low Profile Surface Mount**
	419-10-2__-30-054000	
	Specify number of pins	04-72
FIG. 4	**Series 499...008**	**Right Angle Solder Tails**
	499-10-2__-10-008000	
	Specify number of pins	02-64

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XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 419, 499 • 2,54 GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

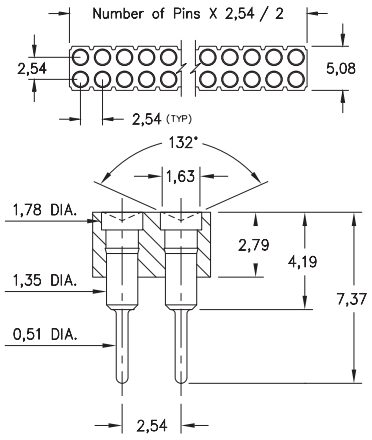
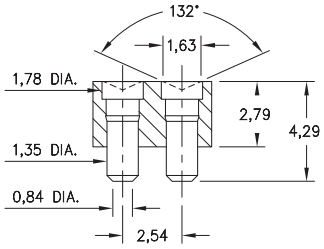
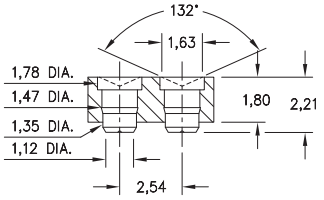


FIG. 1



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 3

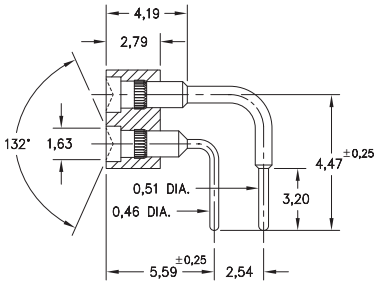
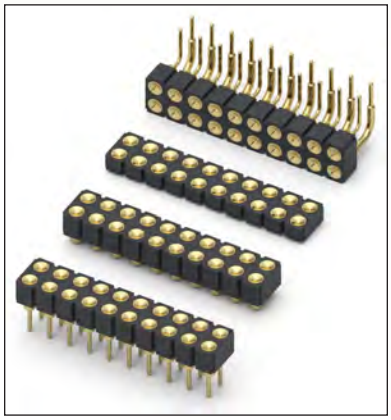


FIG. 4

- Series 419 and 499 Spring Target Connectors, supplied in double row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard 1,07 dia. spring pin plungers
- Target connectors use MM #1947, #1948, #1955 and #1958/1960 pins. See pages 223.1, 223.2 and 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 419...006**	**Standard Solder Tails**
	419-10-2__-00-006000	
	Specify number of pins ← 04-64	
FIG. 2	**Series 419...007**	**Surface Mount**
	419-10-2__-30-007000	
	Specify number of pins ← 04-72	
FIG. 3	**Series 419...055**	**Low Profile Surface Mount**
	419-10-2__-30-055000	
	Specify number of pins ← 04-72	
FIG. 4	**Series 499...007**	**Right Angle Solder Tails**
	499-10-2__-10-007000	
	Specify number of pins ← 02-64	

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XX=Plating Code See Below

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SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 856 • 1,27 GRID FLAT & CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

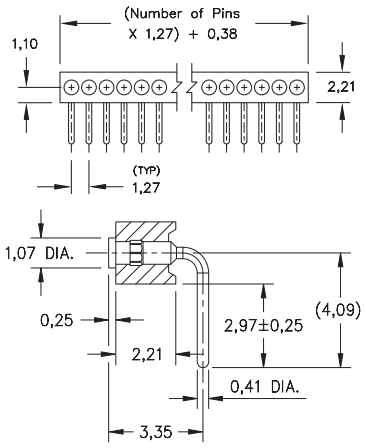


FIG. 1

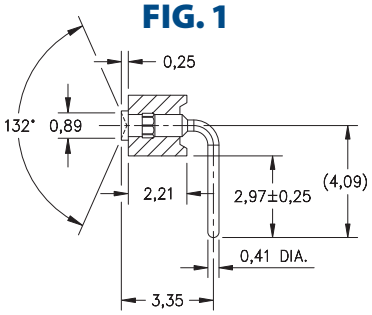


FIG. 2

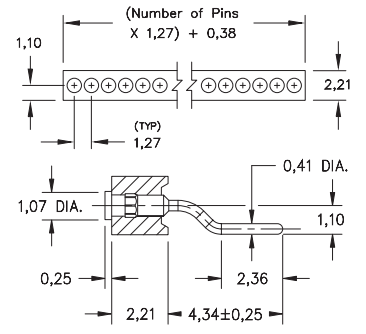
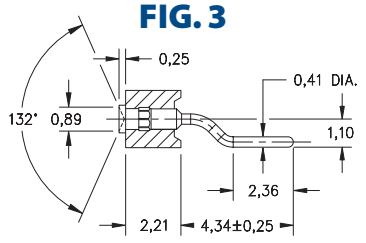


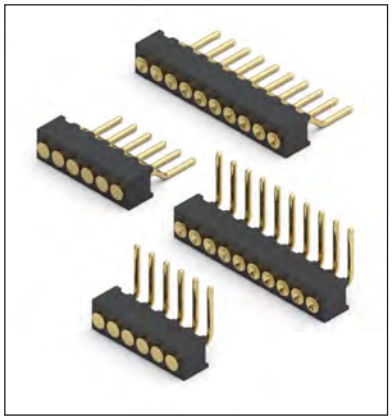
FIG. 3



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 4

- Series 856 Spring Target Connectors, supplied in single row strips
- Spring Target Connectors are offered with a flat or concave surface for making contact with our standard 0,48 dia. spring pin plungers. The target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector
- Target connectors use MM #1831-1 and #1931-1 pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 856...20-001**	**Flat face / Right Angle**
	856-10-0__-20-001000 **Specify number of pins** 01-20	
FIG. 2	**Series 856...20-002**	**Concave face / Right Angle**
	856-10-0__-20-002000 **Specify number of pins** 01-20	
FIG. 3	**Series 856...40-001**	**Flat face / Surface Mount**
	856-10-0__-40-001000 **Specify number of pins** 01-20	
FIG. 4	**Series 856...40-002**	**Concave face / Surface Mount**
	856-10-0__-40-002000 **Specify number of pins** 01-20	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

SPRING-LOADED CONNECTORS

SERIES 856, 857 • 1,27 GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

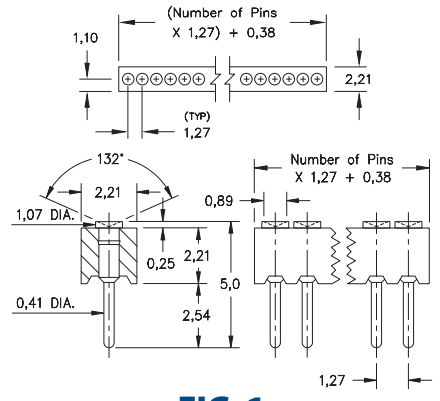
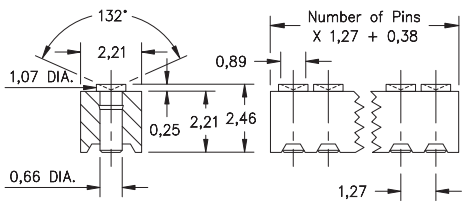


FIG. 1



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 2

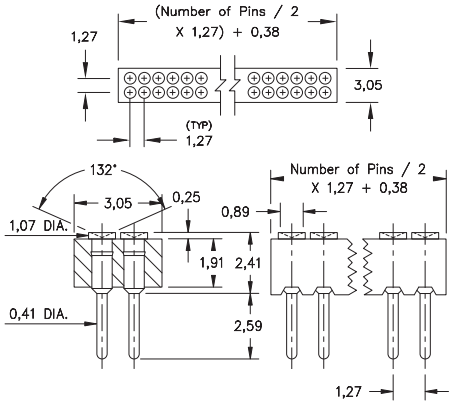
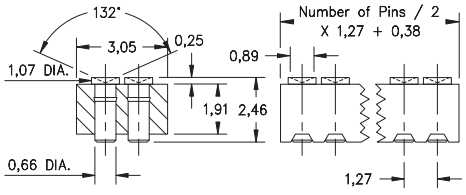


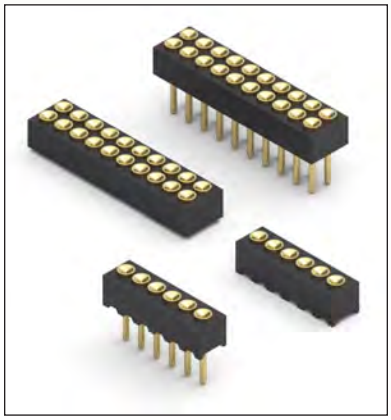
FIG. 3



Coplanarity 0,13. For Pin counts >40 positions, consult Technical Support.

FIG. 4

- Series 856 and 857 Target Connectors, SMT & through-hole, supplied in single and double row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard 0,48 dia. spring pin plungers
- Target connectors use MM #1934 (through-hole) and #1936 (surface mount) pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 856...10-002**	**Concave face / Solder Tails**
	856-10-0__-10-002000	
	Specify number of pins ← 01-20	
FIG. 2	**Series 856...30-002**	**Concave face / Surface Mount**
	856-10-0__-30-002000	
	Specify number of pins ← 02-20	
FIG. 3	**Series 857...10-002**	**Concave face / Solder Tails**
	857-10-0__-10-002000	
	Specify number of pins ← 04-40	
FIG. 4	**Series 857...30-002**	**Concave face / Surface Mount**
	857-10-0__-30-002000	
	Specify number of pins ← 04-40	

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XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	10 µ" Au			

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SPRING-LOADED CONNECTORS

SERIES 856, 857 • 1,27 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

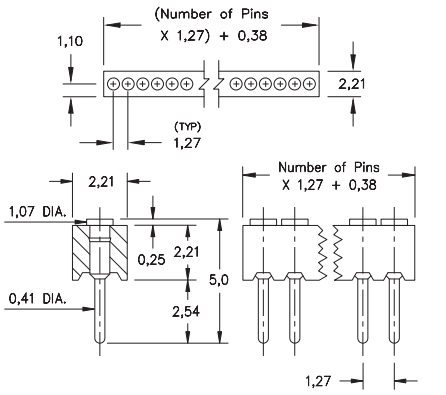
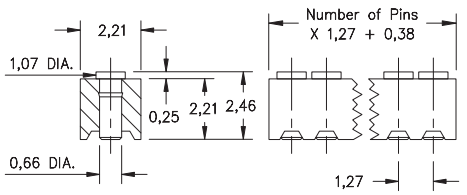


FIG. 1



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 2

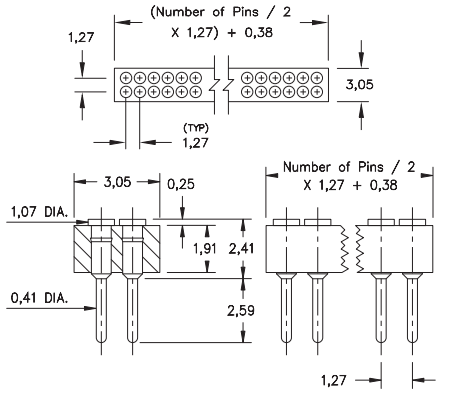
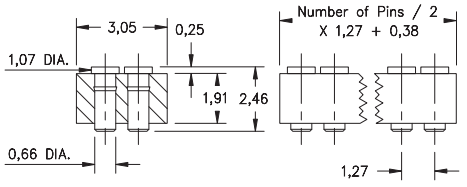


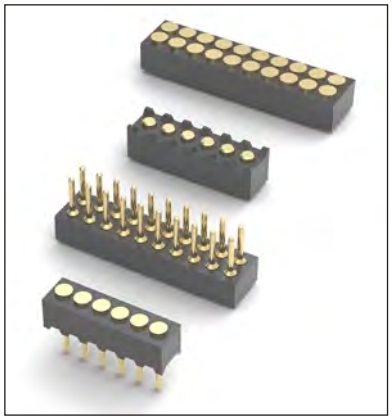
FIG. 3



Coplanarity 0,13. For Pin counts >40 positions, consult Technical Support.

FIG. 4

- Series 856 and 857 Target Connectors, SMT & through-hole, supplied in single and double row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard 0,48 dia. spring pin plungers
- Target connectors use MM #1933 (through-hole) and #1935 (surface mount) pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Series 856...051**	**Flat face / Solder Tails**
	856-10-0__-10-051000	
	Specify number of pins ↑	01-20
FIG. 2	**Series 856...051**	**Flat face / Surface Mount**
	856-10-0__-30-051000	
	Specify number of pins ↑	02-20
FIG. 3	**Series 857...051**	**Flat face / Solder Tails**
	857-10-0__-10-051000	
	Specify number of pins ↑	04-40
FIG. 4	**Series 857...051**	**Flat face / Surface Mount**
	857-10-0__-30-051000	
	Specify number of pins ↑	04-40

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 830 • 2mm GRID FLAT & CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

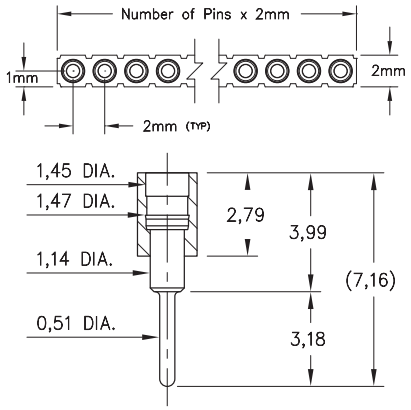


FIG. 1

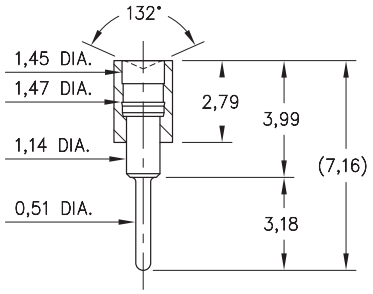
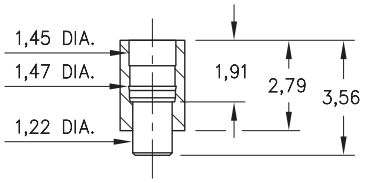
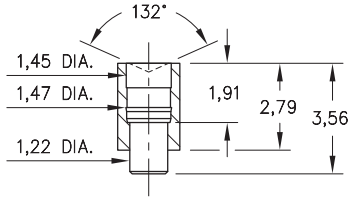


FIG. 2



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

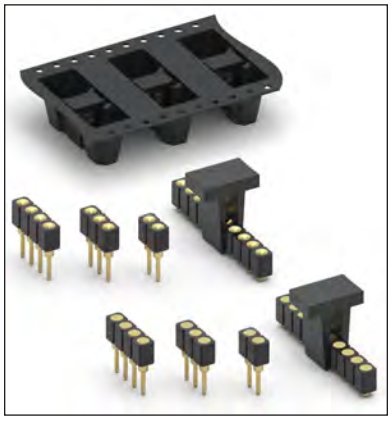
FIG. 3



Coplanarity 0,13. For Pin counts >10 positions, consult Technical Support.

FIG. 4

- Series 830 2mm Spring Target Connectors, supplied in single row strips
- Target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector. Available in both through-hole and SMT terminations with the choice of either flat or concave face contact surfaces. Concave face targets provide additional surface area for mating with our standard 0,81 diameter plungers
- Target connectors use MM #1949, #1950, #1951, and #1952 pins. See page 223.1 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1

Series 830...003 — **Flat face / Solder Tails**

830-10-0_ _-10-003000

Specify number of pins 01-20

FIG. 2

Series 830...004 — **Concave face / Solder Tails**

830-10-0_ _-10-004000

Specify number of pins 01-20

FIG. 3

Series 830...30-003 — **Flat face / Surface Mount**

830-10-0_ _-30-003XXX

Specify number or pins 02-10

Tube packaged = 000
Tape & reel packaged = 191
400 parts per 330mm reel

FIG. 4

Series 830...30-004 — **Concave face / Surface Mount**

830-10-0_ _-30-004XXX

Specify number or pins 02-10

Tube packaged = 000
Tape & reel packaged = 191
400 parts per 330mm reel

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SPRING-LOADED CONNECTORS

SERIES 832 • 2mm GRID FLAT & CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

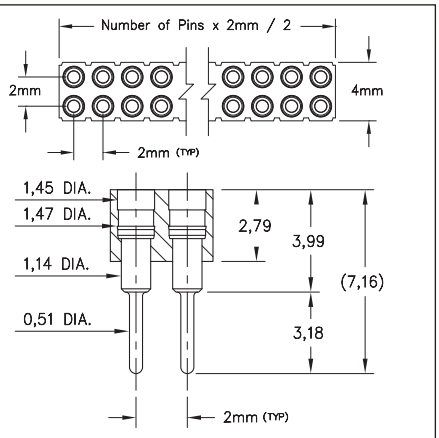


FIG. 1

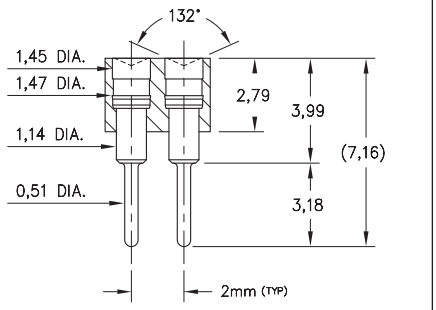
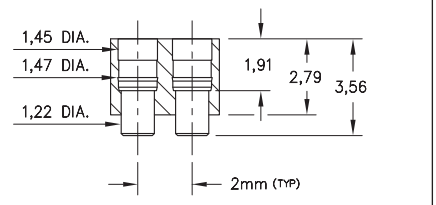
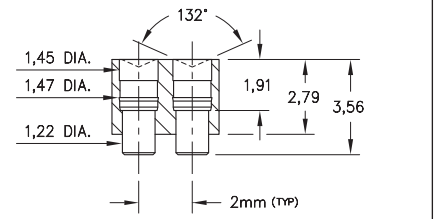


FIG. 2



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

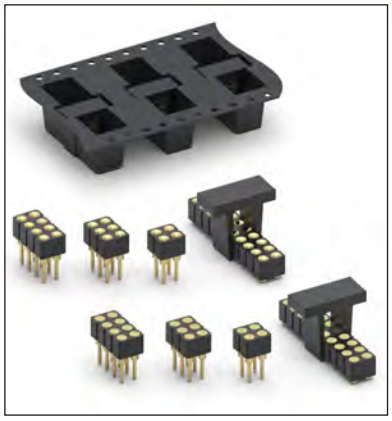
FIG. 3



Coplanarity 0,13. For Pin counts >20 positions, consult Technical Support.

FIG. 4

- Series 832 2mm Spring Target Connectors, supplied in double row strips
- Target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector. Available in both through-hole and SMT terminations with the choice of either flat or concave face contact surfaces. Concave face targets provide additional surface area for mating with our standard 0,81 diameter plungers
- Target connectors use MM #1949, #1950, #1951, and #1952 pins. See page 223.1 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1 — **Series 832...003** — **Flat face / Solder Tails**

832-10-0_ _-10-003000

Specify number of pins 04-20

FIG. 2 — **Series 832...004** — **Concave face / Solder Tails**

832-10-0_ _-10-004000

Specify number of pins 04-20

FIG. 3 — **Series 832...30-003** — **Flat face / Surface Mount**

832-10-0_ _-30-003XXX

Specify number or pins 04-20

Tube packaged = 000
Tape & reel packaged = 191
400 parts per 330mm reel

FIG. 4 — **Series 832...30-004** — **Concave face / Surface Mount**

832-10-0_ _-30-004XXX

Specify number or pins 04-20

Tube packaged = 000
Tape & reel packaged = 191
400 parts per 330mm reel

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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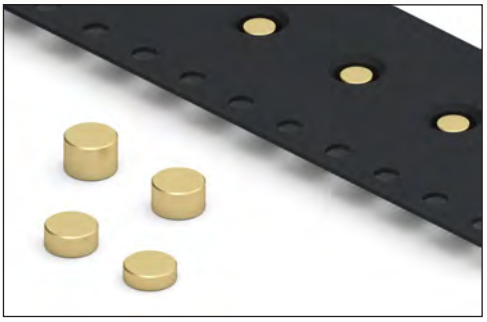
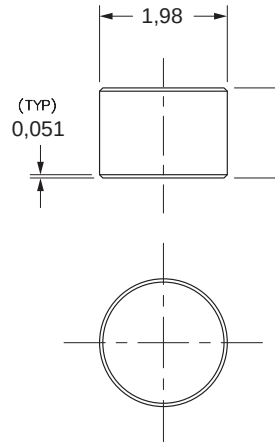
SPRING-LOADED CONNECTORS

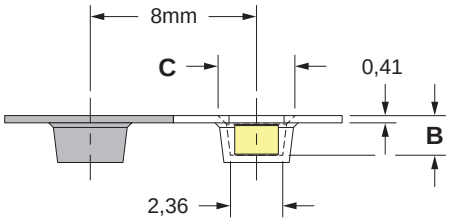
SERIES 1578 • LOW PROFILE TARGET DISCS • SURFACE MOUNT



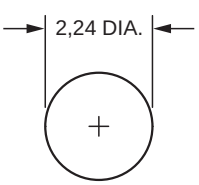
Series 1578 (Target Disc)



Series 1578 (Tape Pocket Details)



Series 1578 (Suggested footprint layout)



- The 1578-X-57-15-00-00-03-0 Surface mount disc is 1,98 in diameter and available in four heights from 0,64 to 1,4 +/-0,051 tall.
  Employing our precision machining expertise we are able to achieve flat surfaces on both sides of the disc with virtually no burrs. The flat surfaces are ideal for surface mount soldering and as the conductive mating surface for spring loaded pins and connectors as well as test probes. The discs are typically placed on solder pasted PCB pads and then subjected to reflow soldering. Once soldered the terminals are ready to be used as reliable, durable contact points.
- The 1578-X's are packaged on tape & reel - 16 mm wide x 8 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D
- Custom sizes are quickly and easily achievable via Mill-Max's high speed precision machining processes. You can contact our technical support team to discuss your particular application and requirements.

ORDERING INFORMATION

Series 1578 (Tape & Reel Packaged)

1578-X-57-15-00-00-03-0

Specify contact style (0-3)

Contact Style	Target Disc Height (A)	Tape Pocket Depth (B)	Tape Pocket Opening (C)	Quantity per Reel
0	0,64	0,89	3,05	7,200
1	0,89	1,14	3,3	6,000
2	1,14	1,4	3,33	5,125
3	1,4	1,65	3,38	4,000

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	15 ◆			
Pin Plating	0,25 µm Au			

SPECIFICATIONS:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard

Dimensions: Inches

Tolerances On: Lengths: ± 0,051
Diameters: ± 0,025
Angles: ± 2 °

RoHS-2 2011/65/EU

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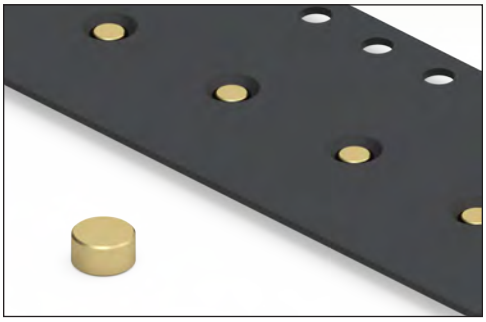
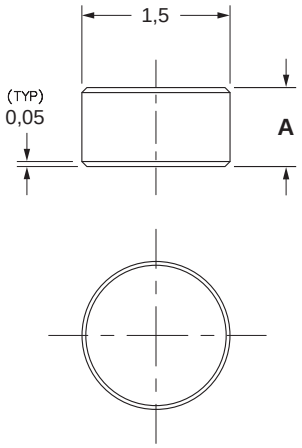
SPRING-LOADED CONNECTORS

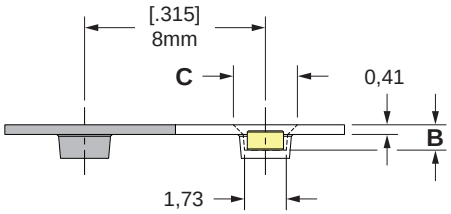
SERIES 1559 • LOW PROFILE TARGET DISCS • SURFACE MOUNT



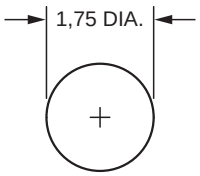
Series 1559 (Target Disc)



Series 1559 (Tape Pocket Details)



Series 1559 (Suggested footprint layout)



- The 1559-1-57-15-00-00-03-0 Surface mount disc is 1,5 in diameter. Employing our precision machining expertise we are able to achieve flat surfaces on both sides of the disc with virtually no burrs. The flat surfaces are ideal for surface mount soldering and as the conductive mating surface for spring loaded pins and connectors as well as test probes. The discs are typically placed on solder pasted PCB pads and then subjected to reflow soldering. Once soldered the terminals are ready to be used as reliable, durable contact points.
- The 1559-1 are packaged on tape & reel - 16 mm wide x 8 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D
- Custom sizes are quickly and easily achievable via Mill-Max's high speed precision machining processes. You can contact our technical support team to discuss your particular application and requirements.

ORDERING INFORMATION

Series 1559 (Tape & Reel Packaged)

1559-X-57-15-00-00-03-0

Specify contact style (1)

Contact Style	Target Disc Height (A)	Tape Pocket Depth (B)	Tape Pocket Opening (C)	Quantity per Reel
1	0,80	1,04	2,64	6,000

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	15 ◆			
Pin Plating	0,25 µm Au			

SPECIFICATIONS:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard

Dimensions: **Inches**

Tolerances On: Lengths: ± 0,051
Diameters: ± 0,025
Angles: ± 2 °

RoHS-2 2011/65/EU

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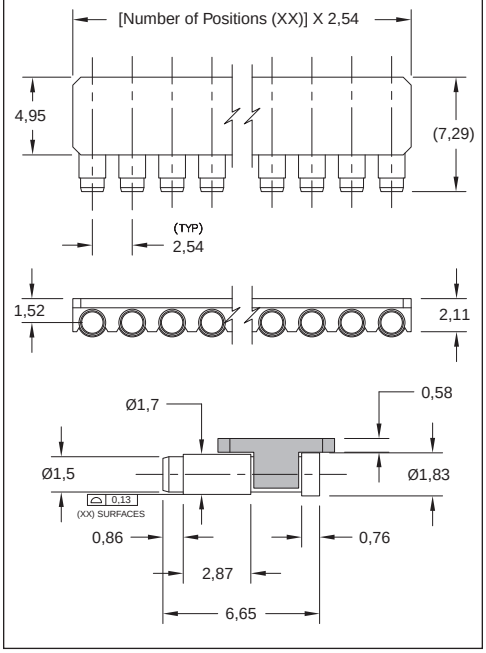
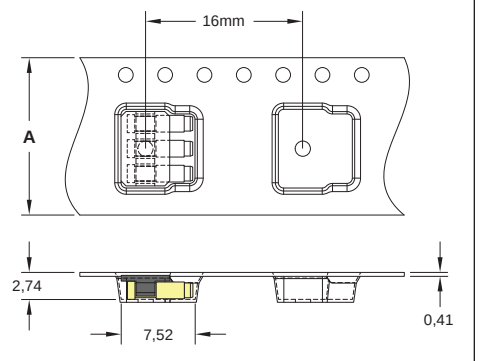
SPRING-LOADED CONNECTORS

SERIES 319 • 2,54 GRID HSMT TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

Series 319 (HSMT Target)



Series 319 (Tape Pocket Details)



- Series 319 HSMT Spring Target Connectors, supplied in single row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. This series is offered with a flat face for making contact with our standard 1,07 dia. spring pin plungers
- These target connectors provide a low profile, horizontal surface mount connection to the PCB and are designed to mate with standard 2,54 pitch spring loaded connectors. They are ideal for daisy chaining P.C.B.'s when mated with SLC 810-22-1XX-40-005191 or for mating boards in a perpendicular orientation
- The 319 series is packaged on tape & reel - 16, 24, 32 or 44 mm wide x 16 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D

ORDERING INFORMATION

Series 319 (Tape & Reel Packaged)

319-10-1__-40-080001

Specify number of pins 02-10

Number of Pins	Tape Width Size (A)	Quantity per Reel
2	16mm	1,450
3	16mm	1,450
4	24mm	1,450
5	24mm	1,450
6	24mm	1,450
7	32mm	1,450
8	32mm	1,450
9	44mm	1,450
10	44mm	1,450

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

Technical Specifications

Materials:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard
Pin Finish: 0,25µm Gold over Nickel
Insulator: High temperature Nylon 46, rated UL94 V-0

Electrical:

Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

RoHS-2 2011/65/EU

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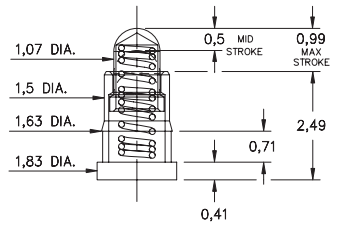
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0900-0

0900-0-15-20-76-14-11-0

"Legacy P/N 0900-0-00-00-00-00-11-0"
Short stroke, Surface mount. Also available on16mm wide carrier tape: 2,000 parts per 330mm reel. See pg. 28.2 for Tape & Reel details

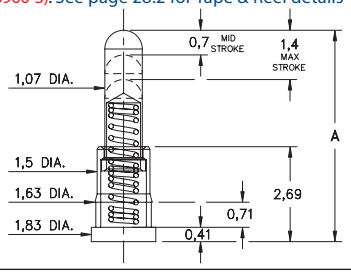


0900-1⇨4,8

72 or 75

0900-X-15-20-7X-14-11-0

Standard stroke, Surface mount. Also available on 16mm wide carrier tape: 1,700 parts per 330mm reel (0900-1) or 24mm wide carrier tape: 1,100 parts per 330mm reel (0900-2) and (0900-3). See page 28.2 for Tape & Reel details



Basic Part Number	Length A
0900-1	4,5
0900-2	5,0
0900-3	5,51
0900-4	5,99
*0900-8	3,94

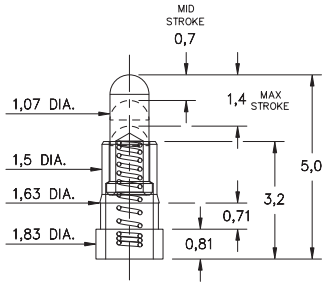
*0900-8 has a 0,5 Mid Stroke & 0,99 Max. Stoke
Order as:
0900-8-15-20-76-14-11-0

"Legacy Part Number"
0900-X-00-00-00-00-11-0

0934

0934-0-15-20-74-14-26-0

Standard stroke, Surface mount

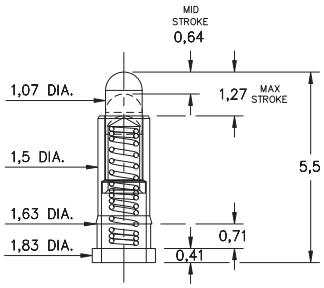


0936

72 or 75

0936-0-15-20-7X-14-11-0

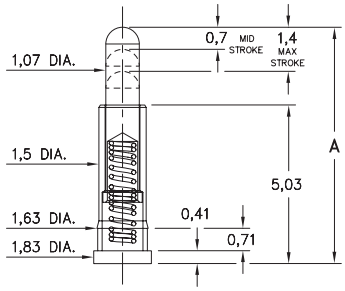
Standard stroke, Surface mount



0907-0⇨9

0907-X-15-20-75-14-11-0

Standard stroke, Surface mount, Mid profile
Also available with insulated sleeve, see page 19.4

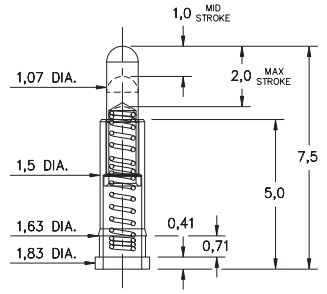


Basic Part Number	Length A
0907-0	6,48
0907-1	6,99
0907-2	7,49
0907-3	8,0
0907-4	8,51
0907-5	8,89
0907-6	9,4
0907-7	9,91
0907-8	10,41
0907-9	10,92

0928

0928-0-15-20-77-14-11-0

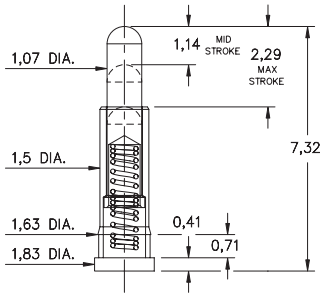
Long stroke, Surface mount



0913

0913-0-15-20-77-14-11-0

Long stroke, Surface mount, Mid profile

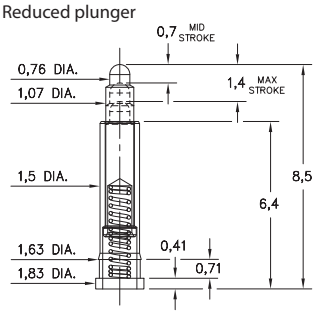


0925

72 or 75

0925-0-15-20-7X-14-11-0

Standard stroke, Surface mount
Reduced plunger

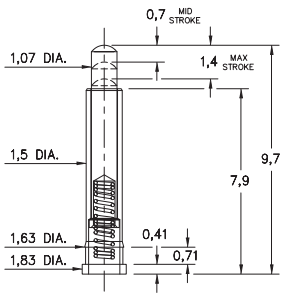


0927

72 or 75

0927-0-15-20-7X-14-11-0

Standard stroke, Surface mount, Mid profile

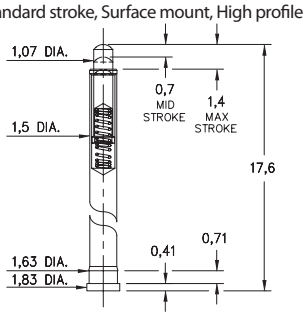


0905

72 or 75

0905-0-15-20-7X-14-11-0

"Legacy P/N 0905-0-00-00-00-00-11-0"
Standard stroke, Surface mount, High profile



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

74, 75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - XX - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
74	0,7	1,4	50 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	1,0	60 g	25 g
77	1,14	2,29	60 g	25 g

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SPRING-LOADED PINS

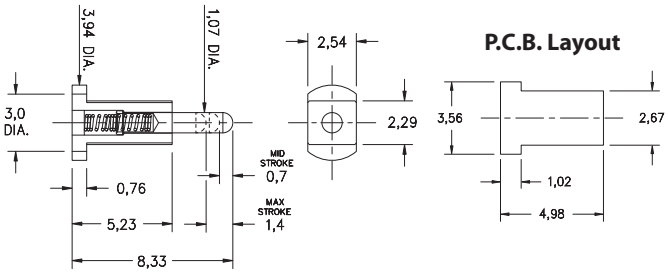
DISCRETE SPRING-LOADED CONTACTS

0967

72 or 75

0967-0-15-20-7X-14-11-0

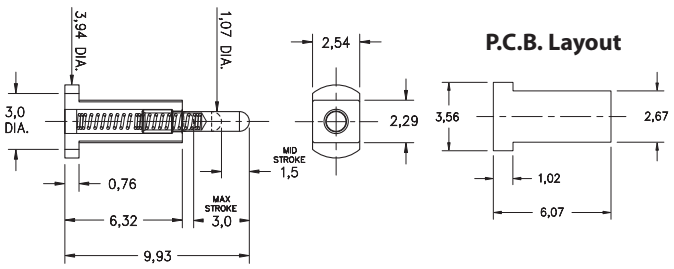
Standard stroke, Horizontal surface mount
Also available on 16mm wide carrier tape: 2,800 parts per 330mm reel
See page 28.2 for Tape & Reel details



0987

0987-0-15-20-89-14-11-0

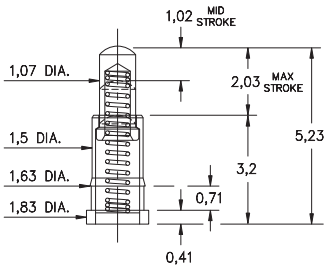
Long stroke, Horizontal surface mount
Also available on 24mm wide carrier tape: 2,800 parts per 330mm reel
See page 28.6 for Tape & Reel details



0964

0964-0-15-20-85-14-11-0

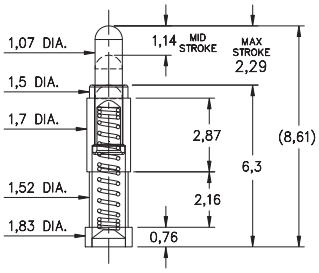
Long stroke, Surface mount, Mid profile
* Stainless steel spring



7966-0

7966-0-15-20-77-14-11-0

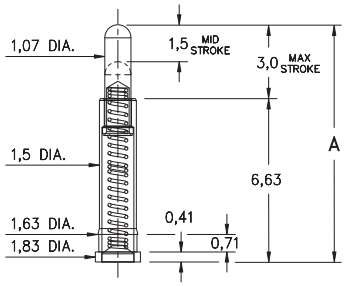
Long stroke, Surface mount. Also available in HSMT connector series: 1,450 parts per 330mm reel. Order as: 810-22-0XX-40-005191



0919-X

0919-X-15-20-89-14-11-0

3mm Long stroke, Surface mount
* Stainless steel spring

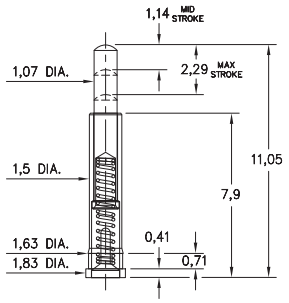


Basic Part Number	Length A
0919-0	9,63
0919-2	10,64

0937

0937-0-15-20-77-14-11-0

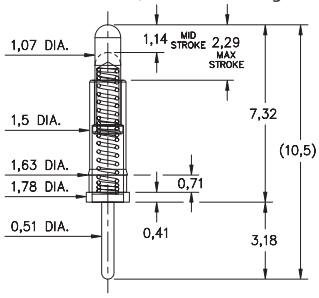
Long stroke, Surface mount



7913

7913-0-15-20-77-14-11-0

Long stroke
Solder mount in 0,61 min. mounting hole

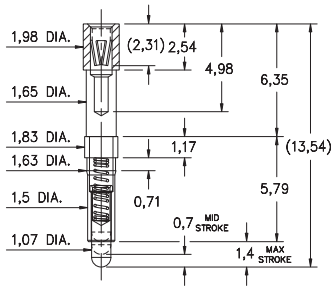


0959

72 or 75

0959-0-54-20-7X-14-11-0

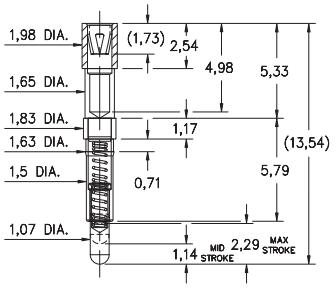
Receptacle spring pin, Standard stroke
Accepts 0,51 - 0,81 Dia. pins



7928

7928-0-54-20-77-14-11-0

Receptacle spring pin, Long stroke
Accepts 0,94 - 1,09 Dia. pins



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125° C

75, 77, 85, 89 Springs are not interchangeable

Order Code: X9XX - X - 15 - 20 - XX - 14 - 11 - 0
Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
77	1,14	2,29	60 g	25 g
* 85	1,02	2,03	60 g	25 g
* 89	1,5	3,0	100 g	25 g

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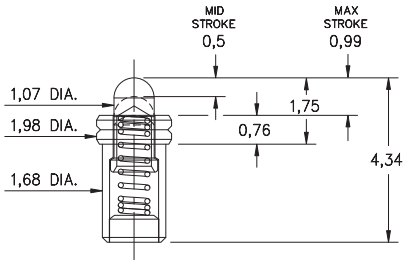
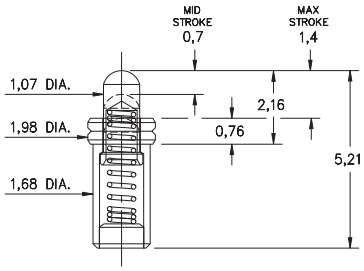
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

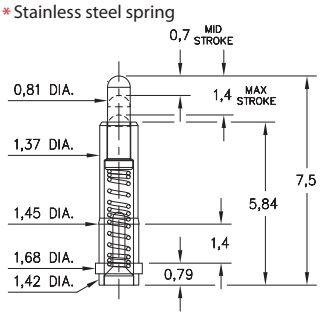
0921-0
0921-0-15-20-76-14-11-0
Ultra low profile, Short stroke. Solder mount in 1,78 min. mounting hole
Also available on 24mm wide carrier tape: 1,700 parts per 330mm reel
See page 28.3 for Tape & Reel details



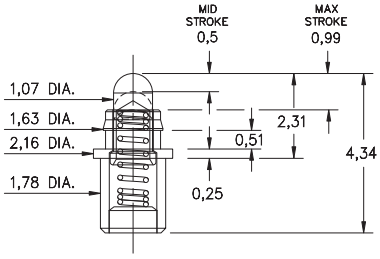
0921-1
72 or 75
0921-1-15-20-7X-14-11-0
Low profile, Standard stroke. Solder mount in 1,78 min. mounting hole
Also available on 24mm wide carrier tape: 1,500 parts per 330mm reel
See page 28.3 for Tape & Reel details



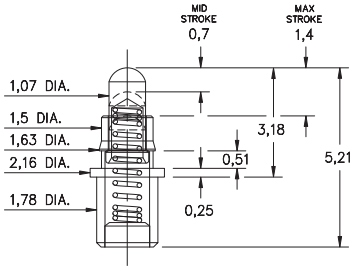
0911
0911-0-15-20-86-14-11-0
Standard stroke, Surface mount
* Stainless steel spring



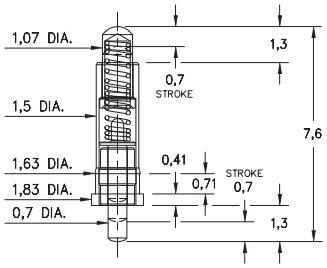
0926-0
0926-0-15-20-76-14-11-0
Low profile, Short stroke. Solder mount in 1,88 min. mounting hole
Also available on 16mm wide carrier tape: 1,700 parts per 330mm reel
See page 28.4 for Tape & Reel details



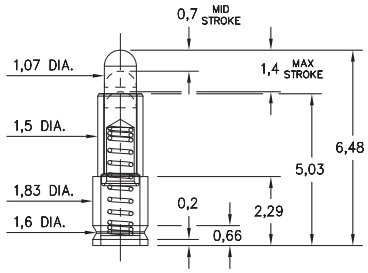
0926-1
72 or 75
0926-1-15-20-7X-14-11-0
Low profile, Standard stroke. Solder mount in 1,88 min. mounting hole
Also available on 24mm wide carrier tape: 1,450 parts per 330mm reel
See page 28.4 for Tape & Reel details



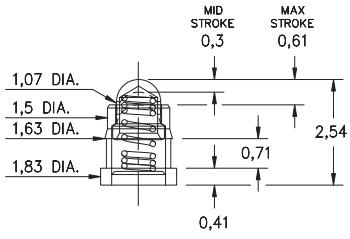
0980
72 or 75
0980-0-15-20-7X-14-11-0
Double action, 1,4 Combined stroke
Mount between parallel circuit boards



0977
72 or 75
0977-0-15-20-7X-14-11-0
Standard stroke, Surface mount
Also available on 24mm wide carrier tape: 1,100 parts per 330mm reel
See page 28.4 for Tape & Reel details



0965
0965-0-15-20-80-14-11-0
Ultra low profile, Surface mount, * Stainless steel spring
Also available on 16mm wide carrier tape: 3,000 parts per 330mm reel
See page 28.4 for Tape & Reel details



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76, 80, 86 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - XX - 14 - 11 - 0
Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
* 80	0,3	0,61	115 g	25 g
* 86	0,7	1,4	100 g	25 g

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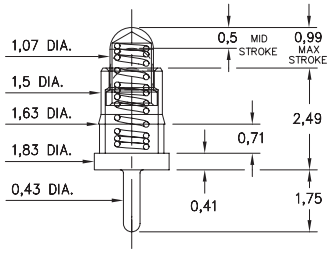
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • THROUGH-HOLE MOUNT

0906-0

0906-0-15-20-76-14-11-0

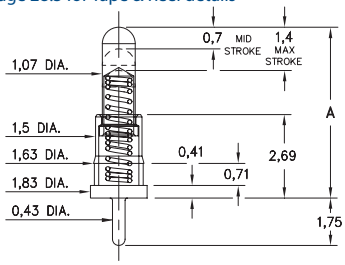
Short stroke, Solder mount in 0,51 min. mounting hole. Also available with insulated sleeve, see page 19.5



0906-1⇨4,8

0906-X-15-20-7X-14-11-0

Standard stroke, Solder mount in 0,51 min. mounting hole
Also available on 24mm wide carrier tape: 0906-1 & 0906-2 1,200 parts per reel. 0906-3 & 0906-4 600 parts per reel.
See page 28.3 for Tape & Reel details



Basic Part Number	Length A
0906-1	4,5
0906-2	5,0
0906-3	5,51
0906-4	5,99
*0906-8	3,94

*0906-8 has a 0,5 Mid. Stroke & 0,99 Max. Stoke

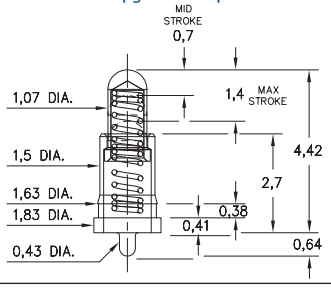
Also available with insulated sleeve, See page 19.5

0930

72 or 75

0930-0-15-20-7X-14-11-0

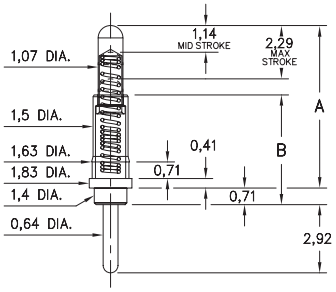
Solder mount in 0,51 min. mounting hole
Also available on carrier tape: 1,500 parts per 330mm reel. See pg. 28.5 for Tape & Reel details



0914

0914-0-15-20-77-14-11-0

Long stroke
Solder mount in 0,74 min. mounting hole



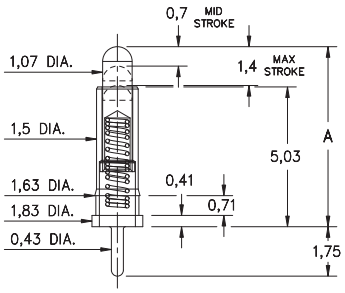
Basic Part Number	Length A	Length B
0914-0	6,96	4,7
0914-1	7,72	6,15
0914-2	8,48	6,91
0914-3	9,25	7,67

0908-0⇨9

72 or 75

0908-X-15-20-7X-14-11-0

Standard stroke
Solder mount in 0,51 min. mounting hole

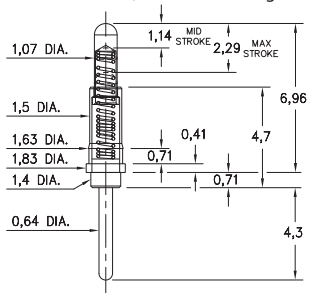


Basic Part Number	Length A
0908-0	6,48
0908-1	6,99
0908-2	7,49
0908-3	8,0
0908-4	8,51
0908-5	8,89
0908-6	9,4
0908-7	9,91
0908-8	10,41
0908-9	10,92

0932

0932-0-15-20-77-14-11-0

Long stroke
Solder mount in 0,74 min. mounting hole

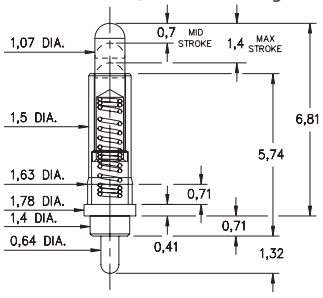


0901

72 or 75

0901-0-15-20-7X-14-11-0

"Legacy P/N 0901-0-00-00-00-00-11-0"
Solder mount in 0,74 min. mounting hole

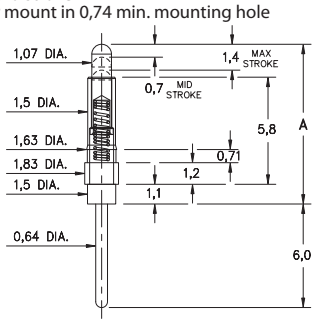


0929

72 or 75

0929-X-15-20-7X-14-11-0

Standard stroke
Solder mount in 0,74 min. mounting hole



Basic Part Number	Length A
0929-0	8,64
0929-7	12,2

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ±0,15
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
77	1,14	2,29	60 g	25 g

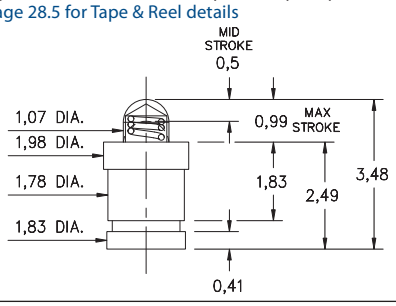
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0910-0

0910-0-57-20-76-14-11-0

Short stroke, Surface mount
Packaged on 16mm wide carrier tape: 2,000 parts per 330mm reel
See page 28.5 for Tape & Reel details

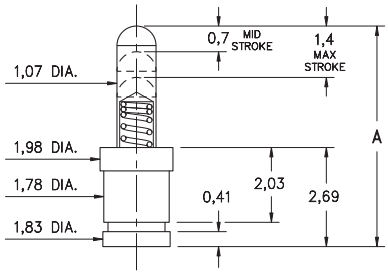


0910-1⇨4

72 or 75

0910-X-57-20-7X-14-11-0

Standard stroke, Surface mount
Packaged on carrier tape. See chart for tape width & qty. per reel
See page 28.5 for Tape & Reel details



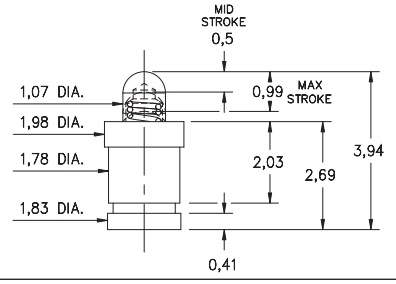
Basic Part Number	Length A
0910-1	4,5
0910-2	5,0
0910-3	5,51
0910-4	5,99

Basic Part Number	Tape Width	Quantity per Reel
0910-1	16mm	1,500
0910-2	24mm	1,100
0910-3	24mm	1,100
0910-4	24mm	1,100

0910-8

0910-8-57-20-76-14-11-0

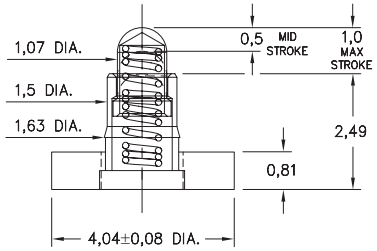
Short stroke, Surface mount
Packaged on 16mm wide carrier tape: 1,800 parts per 330mm reel
See page 28.5 for Tape & Reel details



0990-0

0990-0-50-20-76-14-11-0

Short stroke, Surface mount, Large base
Also available on 16mm wide carrier tape: 2,150 parts per 330mm reel
See page 28.4 for Tape & Reel details

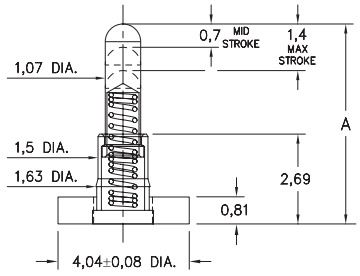


0990-1⇨4

72 or 75

0990-X-50-20-7X-14-11-0

Standard stroke, Surface mount, Large base
Also available on 16mm wide carrier tape: 850 parts per 330mm reel
ONLY 0990-4 currently available. See page 28.4 for Tape & Reel details



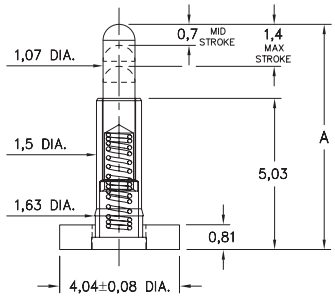
Basic Part Number	Length A
0990-1	4,5
0990-2	5,0
0990-3	5,51
0990-4	5,99

0997-0⇨9

72 or 75

0997-X-50-20-7X-14-11-0

Standard stroke, Surface mount, Large base, Mid profile



Basic Part Number	Length A
0997-0	6,48
0997-1	6,99
0997-2	7,49
0997-3	8,0
0997-4	8,51
0997-5	8,89
0997-6	9,4
0997-7	9,91
0997-8	10,41
0997-9	10,92

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76 Springs are not interchangeable

Order Code: 09XX - X - XX - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g

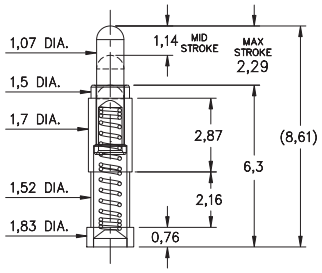
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

7966-0

7966-0-15-20-77-14-11-0

Long stroke, Surface mount. Also available in HSMT connector series: 1,450 parts per 330mm reel. Order as: 810-22-0XX-40-005191

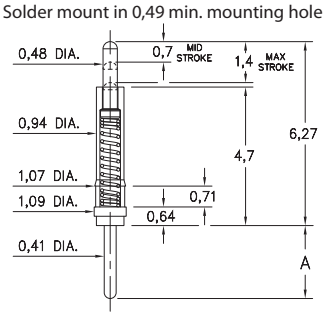


0985

0985-X-15-20-71-14-11-0

Standard stroke

Solder mount in 0,49 min. mounting hole



Basic Part Number	Length A
0985-0	2,62
0985-1	3,81
0985-2	4,83

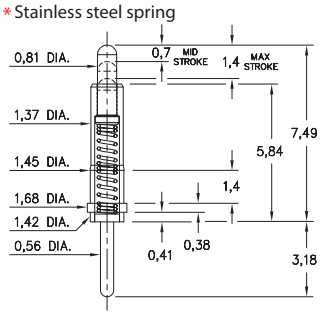
** **Durability:** Up to 100,000 cycles

7911

7911-0-15-20-86-14-11-0

Standard stroke, suitable for 2mm spacing

* Stainless steel spring



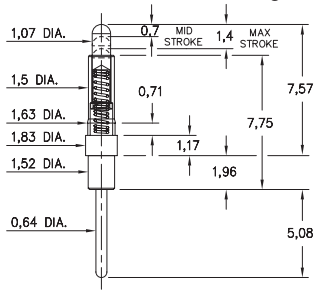
0922

72 or 75

0922-0-15-20-7X-14-11-0

Standard stroke

Solder mount in 0,74 min. mounting hole



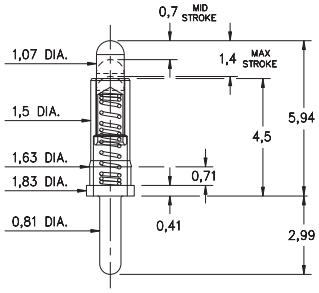
0956

72 or 75

0956-0-15-20-7X-14-11-0

Standard stroke

Solder mount in 0,89 min. mounting hole

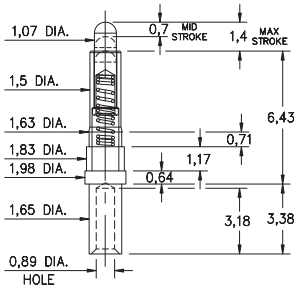


0962

72 or 75

0962-0-15-20-7X-14-11-0

Standard stroke, Wire crimp termination for wire sizes 24 AWG Max. / 28 AWG Min.

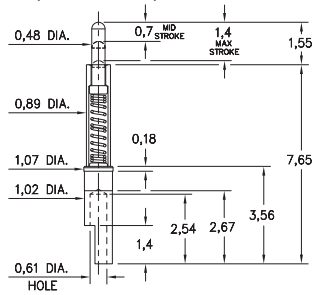


0955

0955-0-15-20-71-14-11-0

Standard stroke, Soldercup

Accepts wire sizes up to 26 AWG



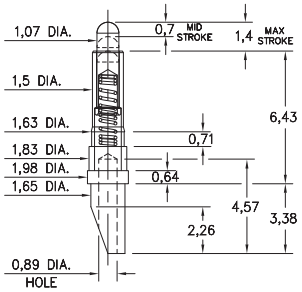
0933

72 or 75

0933-0-15-20-7X-14-11-0

Standard stroke, Soldercup

Accepts wire sizes up to 24 AWG

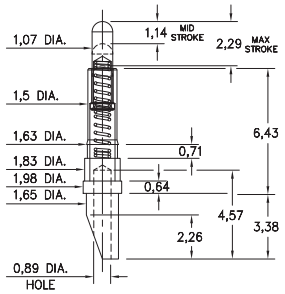


0947

0947-0-15-20-77-14-11-0

Long stroke, Soldercup

Accepts wire sizes up to 24 AWG

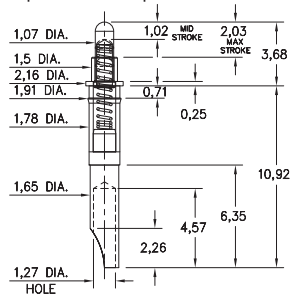


0973

0973-0-15-20-77-14-11-0

Long stroke, Soldercup

Accepts wire sizes up to 20 AWG

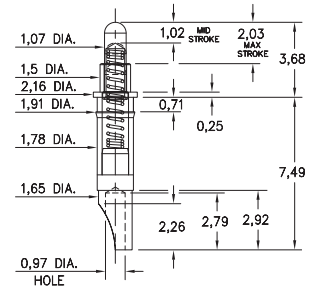


7973

7973-0-15-20-77-14-11-0

Long stroke, Soldercup

Accepts wire sizes up to 22 AWG



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: BeCu or Stainless Steel 302 *

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles **

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

71, 75, 77, 86 Springs are not interchangeable

Order Code: X9XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
71	0,7	1,4	60 g	15 g
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
77	1,14	2,29	60 g	25 g
* 86	0,7	1,4	100 g	25 g

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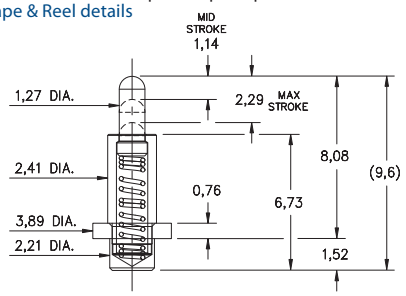
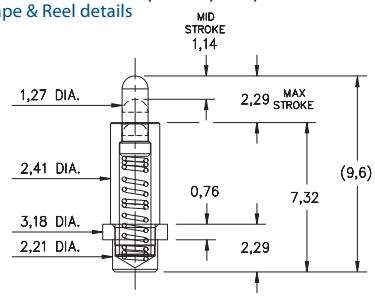
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

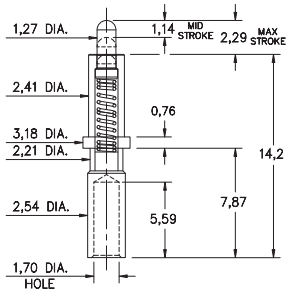
0851
0851-0-15-20-82-14-11-0
Solder Mount in 2,29 min. mounting hole or Surface Mount, 2,21Ø minimum pad
Also available on 24mm wide carrier tape: 540 parts per 330mm reel
See page 28.6 for Tape & Reel details



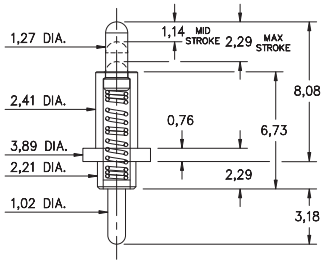
0853
0853-0-15-20-82-14-11-0
Solder Mount in 2,29 min. mounting hole or Surface Mount, 2,21 Ø minimum pad
Also available on 24mm wide carrier tape: 500 parts per 330mm reel
See page 28.6 for Tape & Reel details



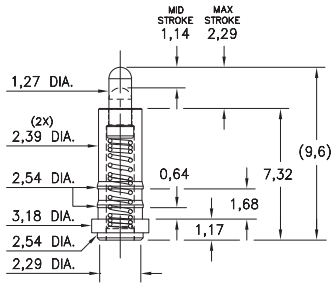
0855
0855-0-15-20-82-14-11-0
Power spring pin, Wire crimp termination for wire sizes 16 AWG Max. / 20 AWG Min.



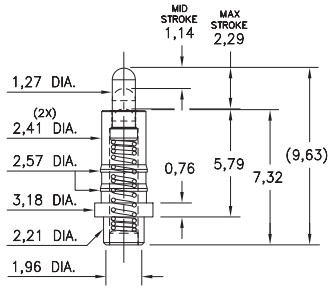
0856
0856-0-15-20-82-14-11-0
Power spring pin
Solder Mount in 1,14 min. mounting hole



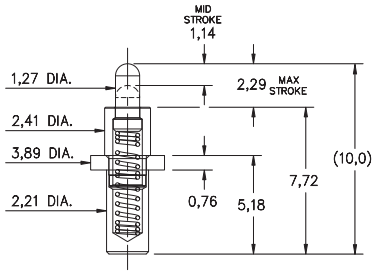
0859
0859-0-15-20-82-14-11-0
Power spring pin
Surface Mount, 2,54 Ø suggested pad size



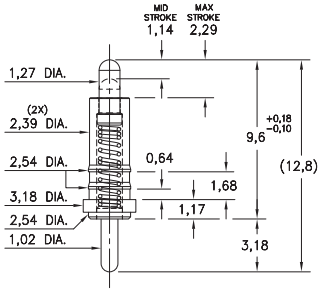
0873
0873-0-15-20-82-14-11-0
Solder Mount in 2,29 min. mounting hole or Surface Mount, 2,21 Ø minimum pad size



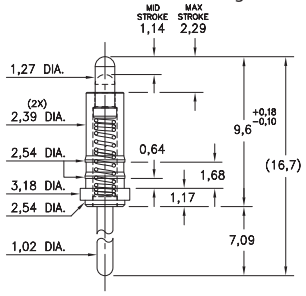
0850
0850-0-15-20-83-14-11-0
Power spring pin, Solder Mount in 2,29 min. mounting hole
Also available on 32mm wide carrier tape: 500 parts per 330mm reel
See page 28.6 for Tape & Reel details



0858
0858-0-15-20-82-14-11-0
Power spring pin
Solder Mount in .045 min. mounting hole



0878
0878-0-15-20-82-14-11-0
Power spring pin
Solder Mount in .045 min. mounting hole



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Rated Current (Free air):
Continuous 9 amps @ 10° C temperature rise
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

82, 83 Springs are not interchangeable

Order Code: 08XX - X - XX - 20 - 8X - 14 - 11 - 0
Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	1,14	2,29	120 g	25 g
83	1,14	2,29	120 g	25 g

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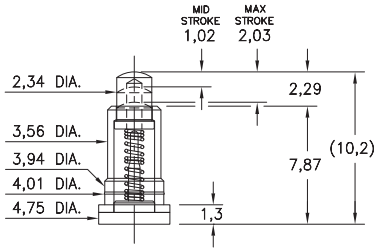
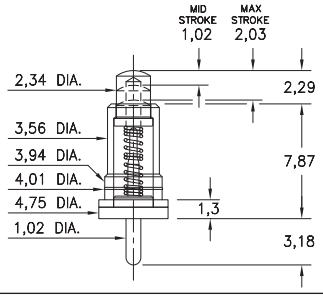
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

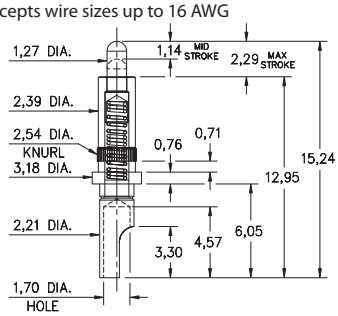
0871
0871-0-15-20-82-14-11-0
Long stroke, Surface mount ∗Force @ Mid. Stroke 100g
Also available on 24mm wide carrier tape: 330 parts per 330mm reel
See page 28.6 for Tape & Reel details



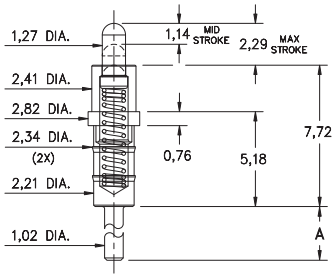
0861
0861-0-15-20-82-14-11-0
Solder Mount in 1,09 min. mounting hole
∗Force @ Mid. Stroke 100g



0868
0868-0-15-20-82-14-11-0
Long stroke, Soldercup
Accepts wire sizes up to 16 AWG

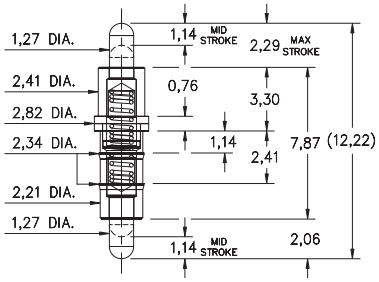


0852
0852-X-15-20-83-14-11-0
Power spring pin, Solder mount in 1,14 min. mounting hole
Also available on 44mm wide carrier tape: 425 parts per 330mm reel
See page 28.6 for Tape & Reel details

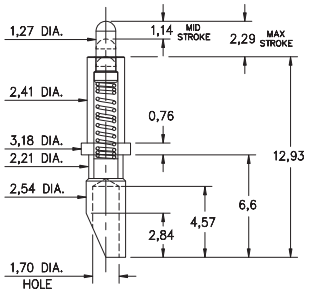


Basic Part Number	Length A
0852-0	1,52
0852-1	4,06

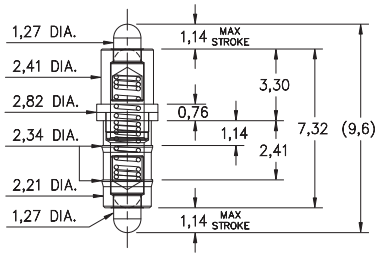
0880
0880-1-15-20-82-14-11-0
Double action, 2,29 Max. combined stroke
Mount between parallel circuit boards



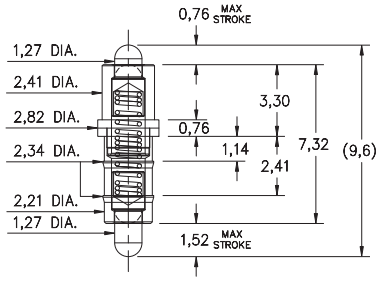
0854
0854-0-15-20-82-14-11-0
Power spring pin, Soldercup
Accepts wire sizes up to 1,45 Dia.



0881
0881-1-15-20-82-14-11-0
Double action, 2,29 Max. combined stroke
Mount between parallel circuit boards



0881
0881-2-15-20-82-14-11-0
Double action, 2,29 Max. combined stroke
Mount between parallel circuit boards



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ±0,15
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Rated Current (Free air):
Continuous 9 amps @ 10° C temperature rise
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

Springs are not interchangeable

Order Code: 08XX - X - XX - 20 - 8X - 14 - 11 - 0
Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	1,14	2,29	120 g	25 g
83	1,14	2,29	120 g	25 g

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SPRING-LOADED PINS

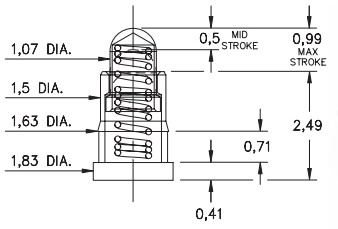
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0900-0

0900-0-57-20-76-14-11-0

Short stroke, Surface mount

16mm wide carrier tape: 2,000 parts per 330mm reel.



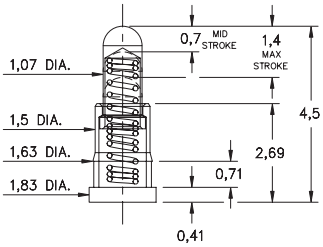
0900-1

72 or 75

0900-1-57-20-7X-14-11-0

Standard stroke, Surface mount

16mm wide carrier tape: 1,500 parts per 330mm reel.



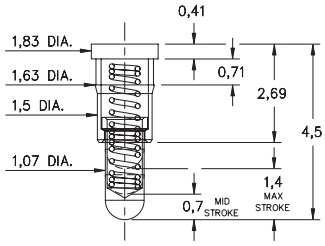
0900-1

72 or 75

0900-1-59-20-7X-14-11-0

Standard stroke, Surface mount

16mm wide carrier tape: 1,700 parts per 330mm reel.



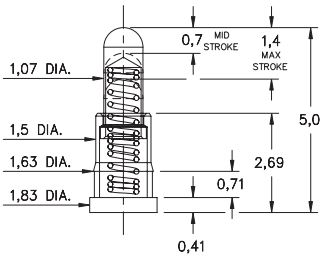
0900-2

72 or 75

0900-2-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 330mm reel.



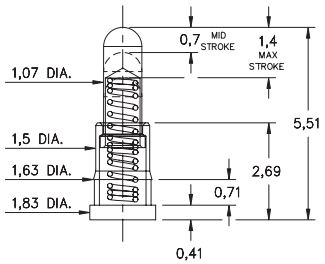
0900-3

72 or 75

0900-3-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 330mm reel.



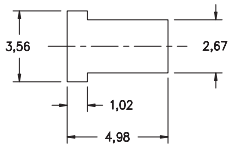
0967

72 or 75

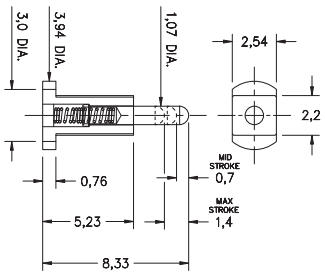
0967-0-58-20-7X-14-11-0

Standard stroke, Horizontal surface mount

16mm wide carrier tape: 2,800 parts per 330mm reel.



P.C.B. Layout



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ±0,15
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125° C

75, 76 Springs are NOT interchangeable

72, 75 Springs are interchangeable

Order Code: 09XX - X - 5X - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g

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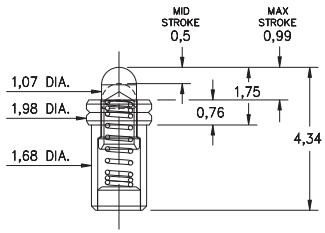
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0921-0

0921-0-57-20-76-14-11-0

Ultra low profile, Short stroke. Solder mount in 1,78 min. mounting hole
24mm wide carrier tape: 1,700 parts per 330mm reel.

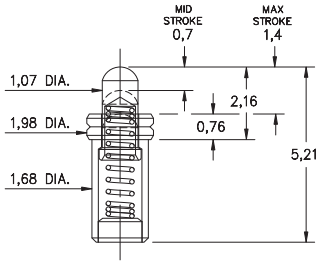


0921-1

72 or 75

0921-1-57-20-7X-14-11-0

Low profile, Standard stroke. Solder mount in 1,78 min. mounting hole
24mm wide carrier tape: 1,500 parts per 330mm reel.

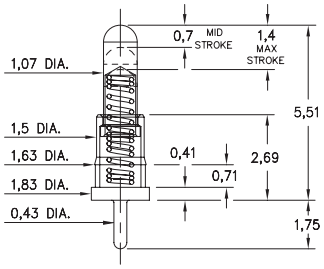


0906-3

72 or 75

0906-3-57-20-7X-14-11-0

Standard stroke, Solder mount in .020 min mounting hole
24mm wide carrier tape: 600 parts per 330mm reel.

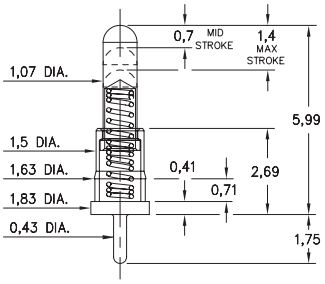


0906-4

72 or 75

0906-4-57-20-7X-14-11-0

Standard stroke, Solder mount in .020 min mounting hole
24mm wide carrier tape: 600 parts per 330mm reel.

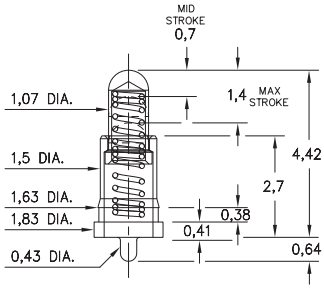


0930

72 or 75

0930-0-57-20-7X-14-11-0

Standard stroke, Solder mount in 0,51 min. mounting hole
24mm wide carrier tape: 1,500 parts per 330mm reel.



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
*80	0,3	0,61	115 g	25 g

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SPRING-LOADED PINS

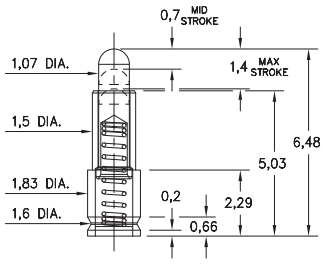
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0977

72 or 75

0977-0-57-20-7X-14-11-0

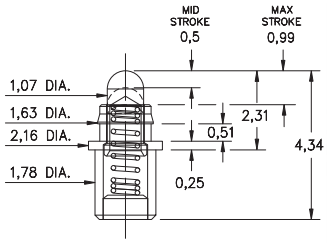
Standard stroke, Surface mount
24mm wide carrier tape: 1,100 parts per 330mm reel.



0926-0

0926-0-57-20-76-14-11-0

Low Profile, Short Stroke. Solder mount in 1,88 min. mounting hole:
16mm wide carrier tape: 1,700 parts per 330mm reel.

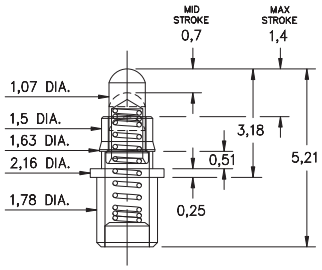


0926-1

72 or 75

0926-1-57-20-7X-14-11-0

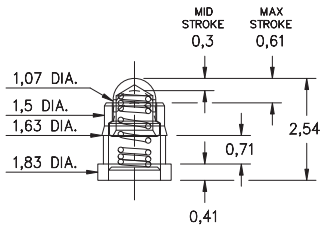
Low profile, Standard stroke. Solder mount in 1,88 min. mounting hole
24mm wide carrier tape: 1,450 parts per 330mm reel.



0965

0965-0-57-20-80-14-11-0

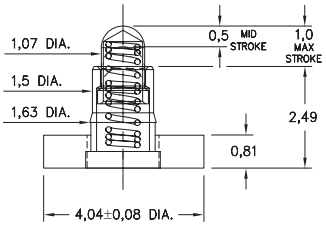
Ultra low profile, Surface mount, * Stainless steel spring
16mm wide carrier tape: 3,000 parts per 330mm reel.



0990-0

0990-0-57-20-76-14-11-0

Short stroke, Surface mount, Large base
16mm wide carrier tape: 2,150 parts per 330mm reel.

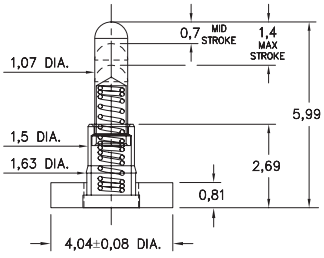


0990-4

72 or 75

0990-4-57-20-7X-14-11-0

Standard stroke, Surface mount, Large base
16mm wide carrier tape: 850 parts per 330mm reel.



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ±0,15
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76, 80 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
*80	0,3	0,61	115 g	25 g

SPRING-LOADED PINS

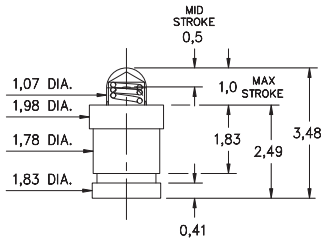
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0910-0

0910-0-57-20-76-14-11-0

Short stroke, Surface mount

16mm wide carrier tape: 2,000 parts per 330mm reel.



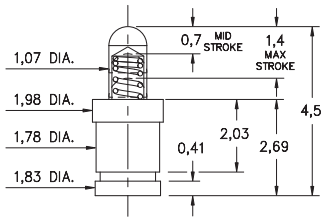
0910-1

72 or 75

0910-1-57-20-7X-14-11-0

Standard stroke, Surface mount

16mm wide carrier tape: 1,500 parts per 330mm reel.



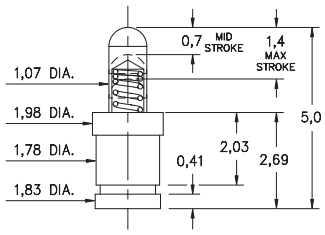
0910-2

72 or 75

0910-2-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 330mm reel.



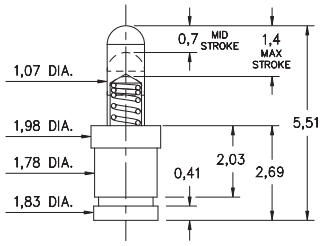
0910-3

72 or 75

0910-3-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 330mm reel.



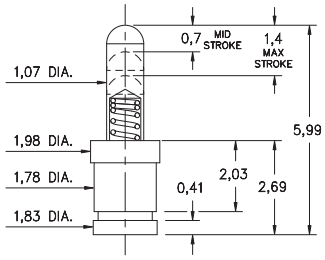
0910-4

72 or 75

0910-4-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 330mm reel.



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125° C

75, 76 Springs are NOT interchangeable

72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	0,7	1,4	35 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g

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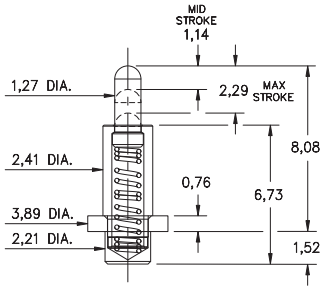
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0851

0851-0-57-20-82-14-11-0

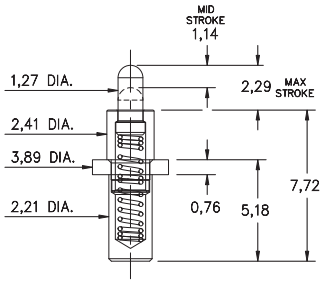
Solder Mount in 2,29 min. mounting hole or Surface Mount, 2,21 Ø minimum pad
24mm wide carrier tape: 540 parts per 330mm reel.



0850

0850-0-57-20-83-14-11-0

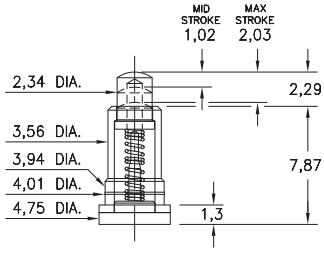
Power spring pin, Solder Mount in 2,29 min. mounting hole
32mm wide carrier tape: 500 parts per 330mm reel.



0871

0871-0-57-20-82-14-11-0

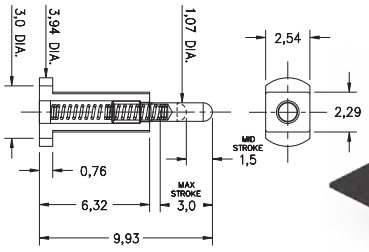
Long stroke, Surface mount ∗Force @ Mid. Stroke 100g
24mm wide carrier tape: 330 parts per 330mm reel.

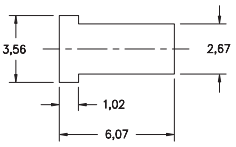


0987

0987-0-58-20-89-14-11-0

Long stroke, Horizontal surface mount
24mm wide carrier tape: 2,800 parts per 330mm reel.



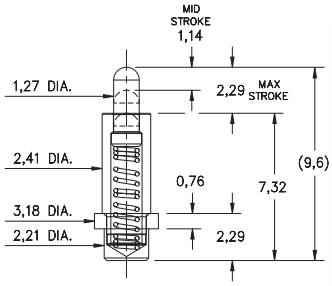


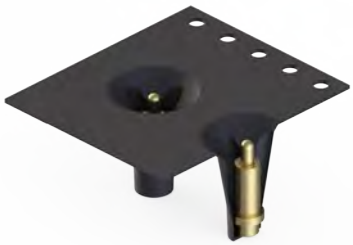
P.C.B. Layout

0853

0853-0-57-20-82-14-11-0

Solder Mount in 2,29 min. mounting hole or Surface Mount, 2,21 Ø minimum pad
24mm wide carrier tape: 500 parts per 330mm reel

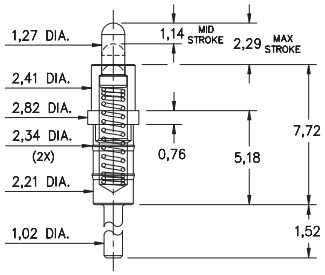




0852

0852-0-57-20-83-14-11-0

Power spring pin, Solder Mount in1,14 min. mounting hole
44mm wide carrier tape: 425 parts per 330mm reel



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ±0,15
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125° C

82, 83, 89 Springs are not interchangeable

Order Code: 08XX - 0 - 5X - 20 - 8X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	1,14	2,29	120 g	25 g
83	1,14	2,29	120 g	25 g
89	1,5	3,0	85 g	25 g

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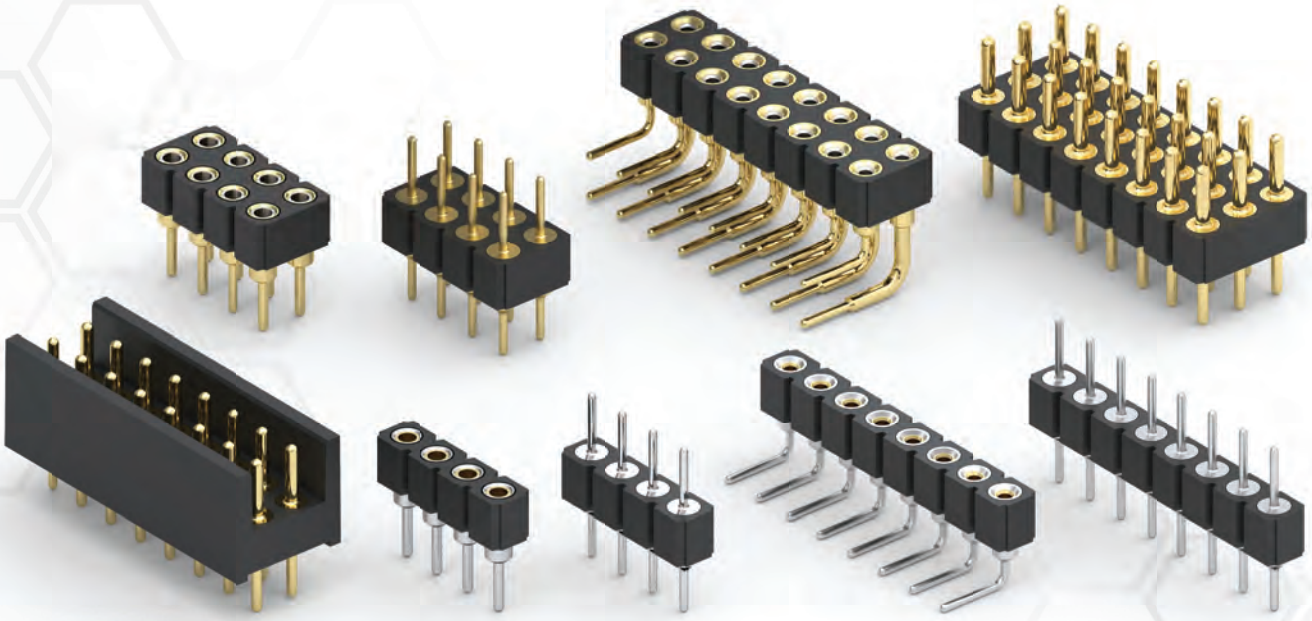
BOARD-TO-BOARD INTERCONNECTS



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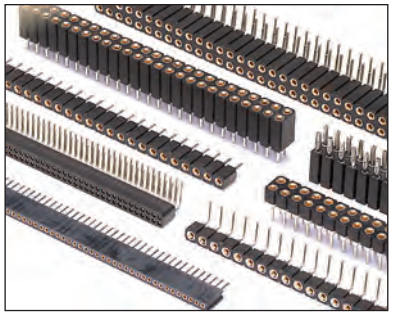
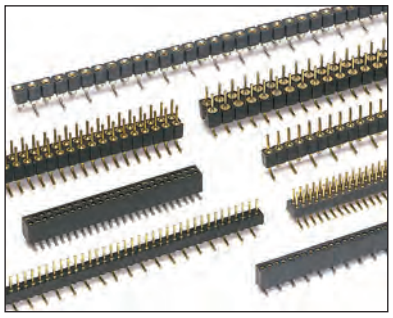
MILL-MAX HEADER AND SOCKET INTERCONNECTS OFFER AN IDEAL SOLUTION TO THE BOARD-TO-BOARD INTERCONNECT CHALLENGES THAT DESIGN ENGINEERS FACE EVERY DAY. We offer a variety of options to accommodate everything from space-saving, fine-pitch requirements, to larger, more robust applications in which products are subjected to harsh environments including significant shock and vibration. By mating different combinations of headers and sockets, a wide range of board-to-board spacing can be achieved.





MILL-MAX CONNECTORS ARE AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- Pluggable using a mating socket and header
- Permanent by soldering a through-hole header to both boards
- Fine pitch from 2mm down to 1mm pin-to-pin spacing
- Surface mount headers and sockets
- Right angle
- Multiple board stacking using Organic Fiber Plug® pass-through sockets
- Horizontal "Z-Bend" SMT
- Wire Termination: Soldercup, Turret, Slotted
- Solderless Press-fit

CUSTOM INSULATORS

NEED A SOCKET OR HEADER IN A UNIQUE CONFIGURATION?

Mill-Max can manufacture custom insulators to your exacting specifications, saving you money for high volume runs.

When your product's in high demand, the most cost-effective way to produce a custom connector insulator is to mold it. Mill-Max can mold* insulators out of PCT, Nylon, PPS or LCP, depending on the environmental, mechanical, electrical and thermal requirements of your application.

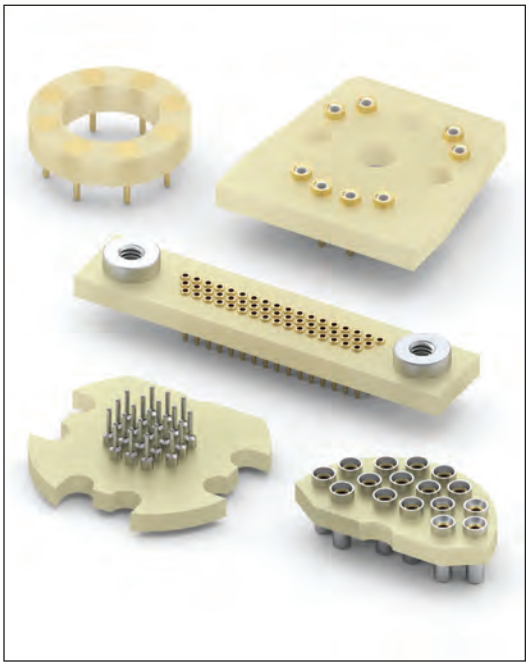
If you have a high-volume connector application, Mill-Max can provide a superior molded insulator solution that will keep your costs in check.

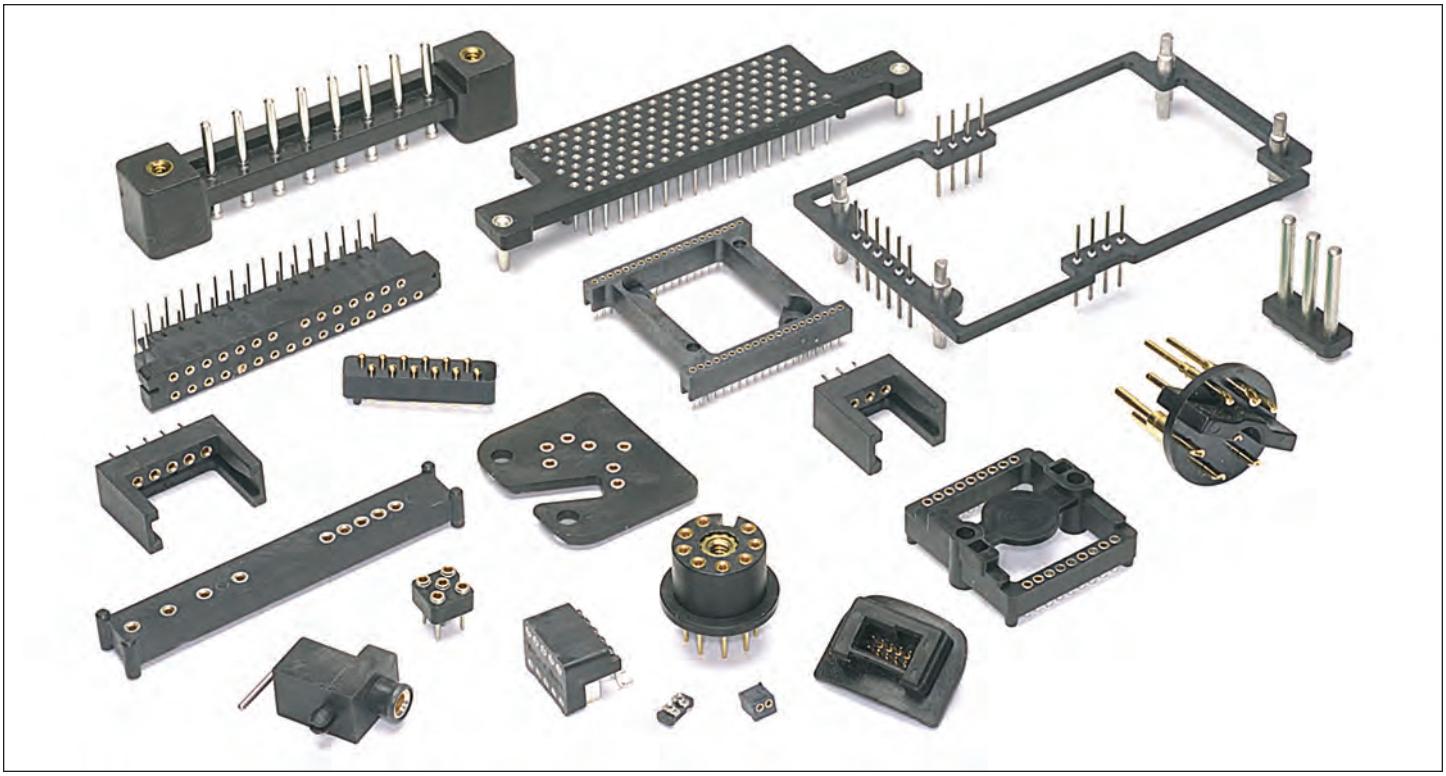
In addition, Mill-Max's utilization of FR-4 epoxy material, in combination with standard pins/receptacles, makes this kind of customization a quick and efficient process for both prototype and volume production.

FR-4 insulators offered in standard thicknesses of 0,51, 0,79, 1,19, 1,57, 2,36 and 3,18 are best suited for single plane designs. Mill-Max can turn around a socket, header or spring pin connector typically in 2-4 weeks or less! (Provided that a standard receptacle or pin with a press-fit feature is used.)

Please contact us with your custom application by completing our Custom Product Worksheet on page 247.

* A one-time partial tooling charge is assessed in order to cover the costs associated with building a custom mold tool.





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SERIES 891 & 893 • 1mm GRID SURFACE MOUNT • MALE AND FEMALE CONNECTORS

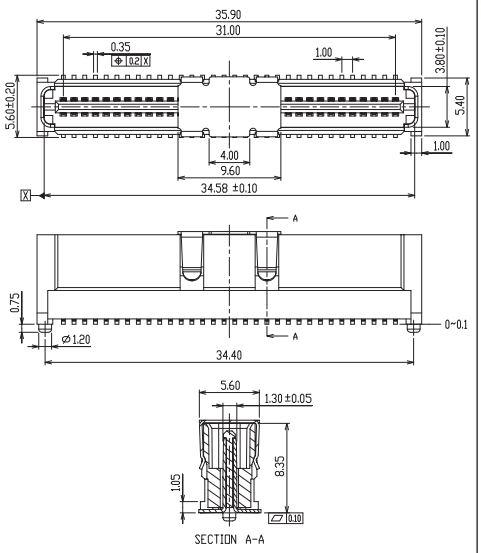


FIG. 1

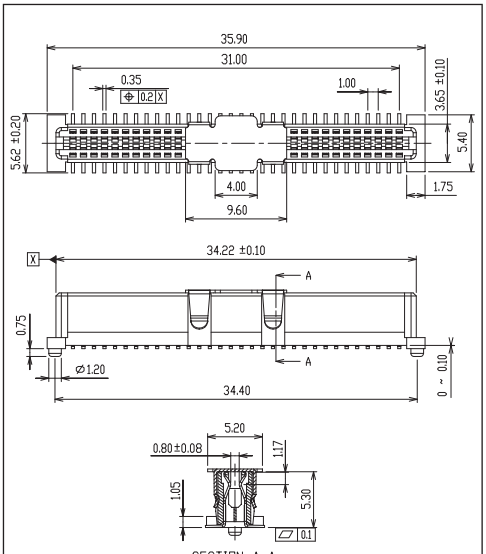
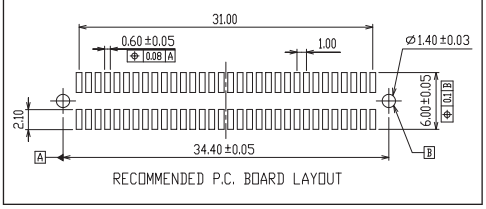
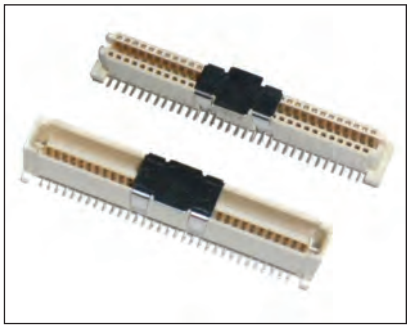


FIG. 2



- 64 Position Mezzanine Connectors for board stacking
- 1 mm Centerline high density packaging
- Mated connector board stacking height of 10 mm
- Conforms to EIA-700 AAAB for IEEE 1386 applictions
- Tape & Reel packaged per EIA-783 (56 mm wide; 16 mm pitch)
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 891...120**	**1mm Surface Mount Male Connector**
	891-10-064-30-120000 **Tape and Reel Packaging:** 400 Parts per 330mm reel	
FIG. 2	**Series 893...420**	**1mm Surface Mount Female Connector**
	893-43-064-30-420000 **Tape and Reel Packaging:** 600 Parts per 330mm reel	

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals and Contacts: Phosphor Bronze
Plating: Contact area - 0,76µm Gold over Nickel
Solder Terminals - 1,9µm Tin over Nickel
Vacuum Cap: Stainless Steel
Insulator Material: High temperature glass filled LCP, rated UL 94V-0

Ratings:
Current: (30° C Temperature Rise): 0.5 A max., all circuits wired in series (1.0A max., five adjacent circuits wired in series)
Voltage: 250V AC (RMS) (contact to contact)
Operating Temperature Range: -55° C - +85° C

Electrical:
Contact resistance: 30mΩ max.
Insulation resistance: 1,000 MΩ min.
Dielectric Withstanding Voltage: 250V AC for one minute @ sea level

Mechanical:
Vibration: No discontinuity > 1 ms per MIL-STD 202, Method 201
Physical Shock: No discontinuity > 1 µs per EIA 364-27 Test Condition H
Durability: 100 cycles min. per EIA 364-09
Mating Force: 60 g/terminal max. per EIA 364-13
Separation Force: 23 g/terminal min. per EIA 364-13
Contact Retention Force: .4Kg min. per EIA 364-35

Environmental:
Thermal Shock: Per EIA 364-32, Test Condition I
Humidity: Test conditions - Ambient temp. 40±2°C; Relative humidity: 90 - 95%; Duration: 96 Hrs.
Post Humidity Inspection - 1. No damage
2. Contact resistance change < 15 mΩ
3. Insulation Resistance: 100 MΩ min.
Solderability: Per EIA 364-52 Category 2

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SERIES 860 & 861 • 1mm GRID HEADERS AND SOCKETS • SINGLE ROW STRIPS

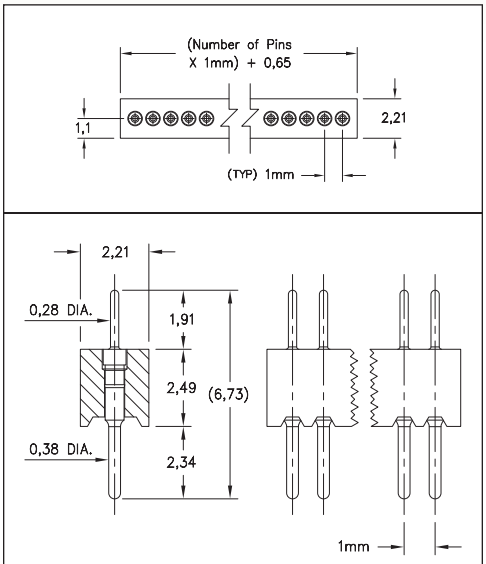


FIG. 1

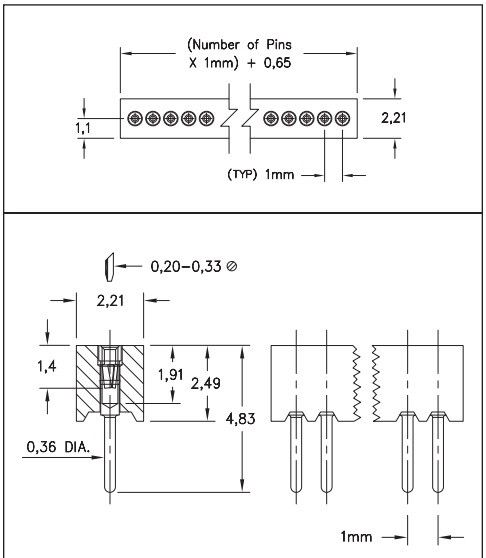
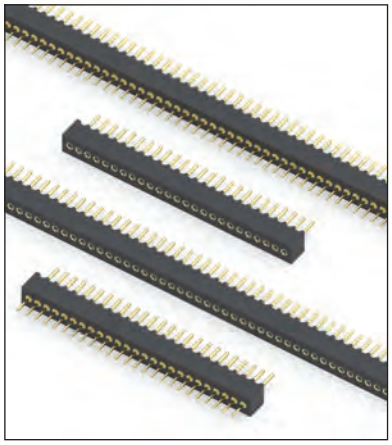


FIG. 2

- Series 860 headers and Series 861 sockets are single row, 1mm pitch interconnects rated at 2 amps
- Series 860 headers have 0,38 diameter solder tails and 0,28 diameter pluggable pins (MM #3039) See page 208 for details
- Series 861 sockets have 0,36 diameter solder tails (MM #0439). See page 156 for details
- Both 860 headers and 861 sockets are available in 2-50 position strips
- The header and socket provide a mated height of 4,98 for board stacking applications
- Insulators are high temperature thermoplastic, suitable for most soldering processes, and feature standoffs to promote solder flow



ORDERING INFORMATION

FIG. 1

Series 860...002 — **Single Row 1mm Header**

860-10-0__-10-002000

Specify number of pins → 02-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2

Series 861...002 — **Single Row 1mm Socket**

861-13-0__-10-002000

Specify number of pins → 02-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆						
Sleeve (Pin)	0,25µm Au						
Contact (Clip)	0,76µm Au						

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SERIES 850, 851, 852, 853 • 1,27 GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

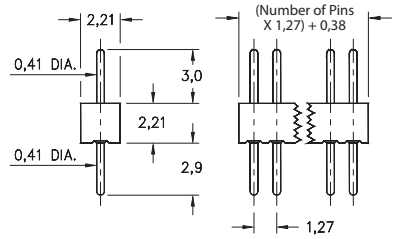


FIG. 1

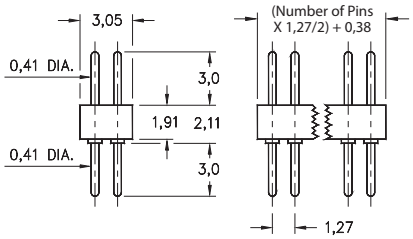


FIG. 2

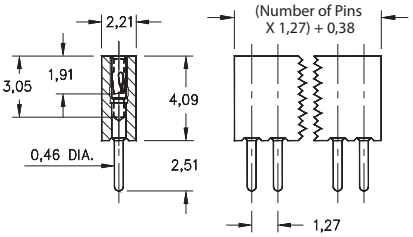


FIG. 3

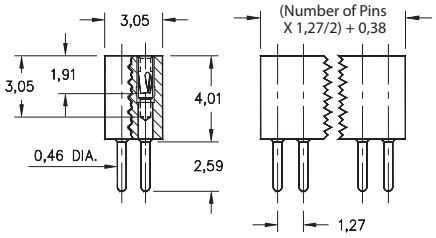


FIG. 4

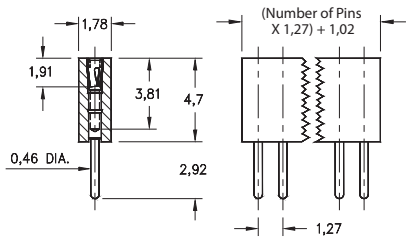
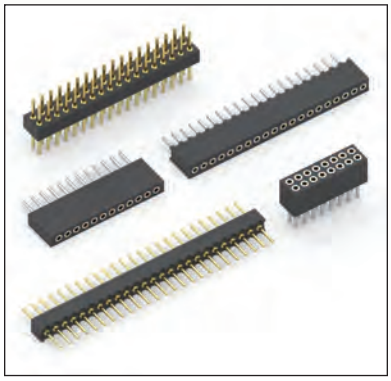


FIG. 5

- Series 850, 851, 852, 853 single and double row interconnects have 1,27 pin spacing and permit board stacking as low as 6,3
- Pin headers have 0,41 dia. pins (MM #4006-0) See page 208 for details
- MM #0467 and MM #4890 receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from 0,38 - 0,51). See pages 158 and 160 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 850...001 Single Row 2,21 Profile Pin Header**

850-XX-0_ _-10-001000

Specify number of pins 01-50

FIG. 2 — **Series 852...001 Double Row 2,11 Profile Pin Header**

852-XX-_ _ _-10-001000

Specify number of pins 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 851...001 Single Row 4,09 Profile Socket**

851-XX-0_ _-10-001000

Specify number of pins 01-50

FIG. 4 — **Series 853...001 Double Row 4,09 Profile Socket**

853-XX-_ _ _-10-001000

Specify number of pins 004-100

FIG. 5 — **Series 851...002 Single Row 4,7 Profile Socket**

851-XX-0_ _-10-002000

Specify number of pins 01-77

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	Au Flash

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SERIES 851 & 853 • 1,27 GRID LONG TAIL SOCKETS • SINGLE AND DOUBLE ROW STRIPS

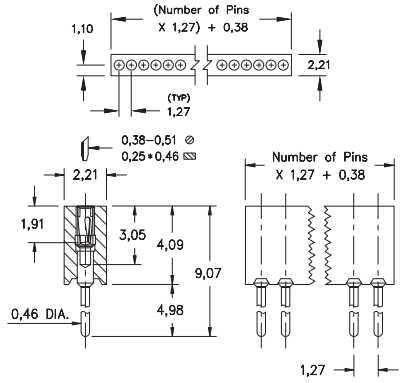


FIG. 1

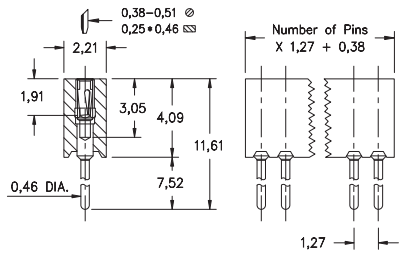


FIG. 2

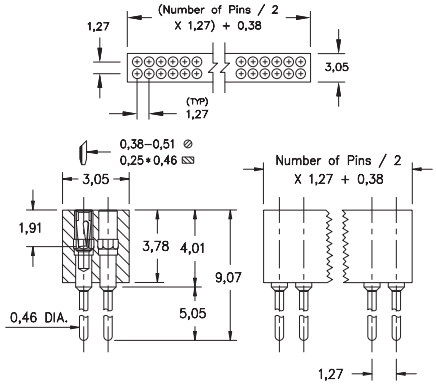


FIG. 3

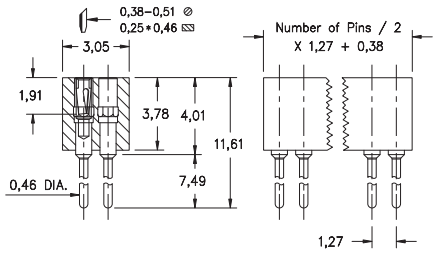
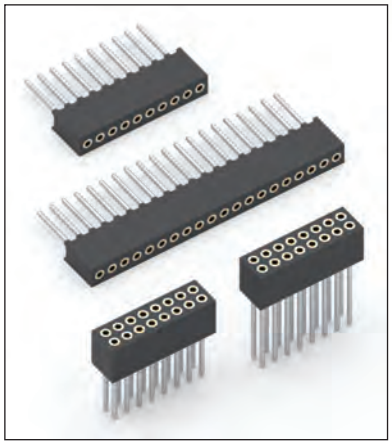


FIG. 4

- Series 851...011 and 853...011 use MM #4890-1 pins. See page 160 for details
- Series 851...021 and 853...021 use MM #4890-2 pins. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from 0,38 - 0,51). See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 851...011**	**Single Row Socket**
	851-XX-0_ _-10-011000	
	Specify number of pins ← 01-50	
FIG. 2	**Series 851...021**	**Single Row Socket**
	851-XX-0_ _-10-021000	
	Specify number of pins ← 01-50	
FIG. 3	**Series 853...011**	**Double Row Socket**
	853-XX-_ _ _-10-011000	
	Specify number of pins ← 004-100	
FIG. 4	**Series 853...021**	**Double Row Socket**
	853-XX-_ _ _-10-021000	
	Specify number of pins ← 004-100	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=					41 ◆	43 ◆	
Sleeve (Pin)					5,08µm Sn	5,08µm Sn	
Contact (Clip)					0,25µm Au	0,76µm Au	

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SERIES 850 & 851 • 1,27 GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE ROW STRIPS

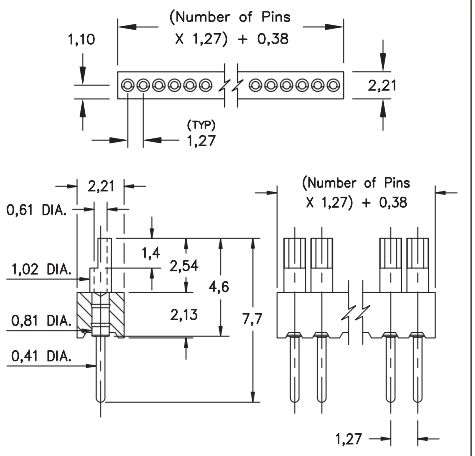


FIG. 1

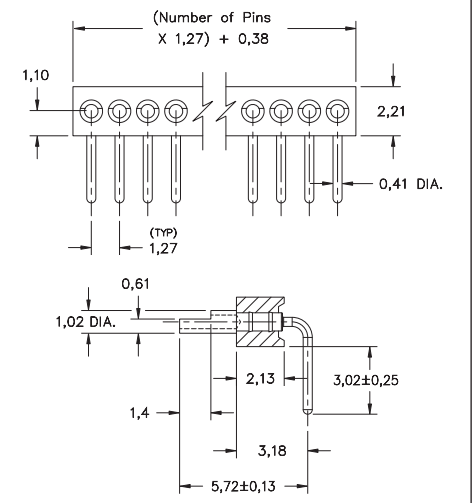


FIG. 2

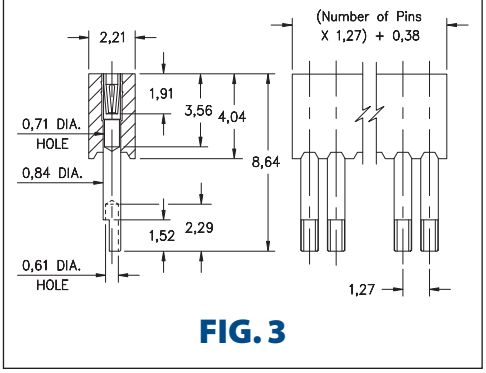
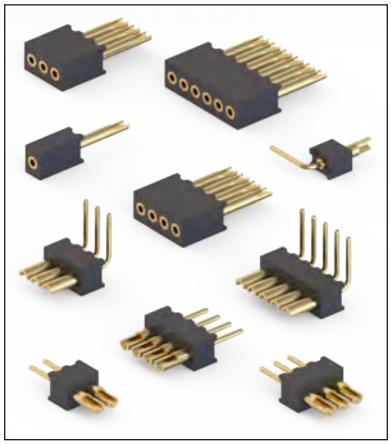


FIG. 3

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 850 headers use MM #3050-0 pins. See page 244 for details
- Series 851 sockets use MM #1157-0 receptacles that accept pin diameters from 0,38 - 0,51 See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 850...003 Single Row Solder Cup / Solder Tail**

850-XX-0__-10-003000

Specify number of pins ← 01-50

FIG. 2 — **Series 850...003 Single Row Right Angle Solder Cup**

850-XX-0__-20-003000

Specify number of pins ← 01-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 3 — **Series 851...003 Single Row Solder Cup Socket**

851-XX-___-10-003000

Specify number of pins ← 01-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆						
Sleeve (Pin)	0,25µm Au						
Contact (Clip)	0,76µm Au						

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SERIES 852 & 853 • 1,27 GRID SOLDER CUP HEADERS AND SOCKETS, DOUBLE ROW STRIPS

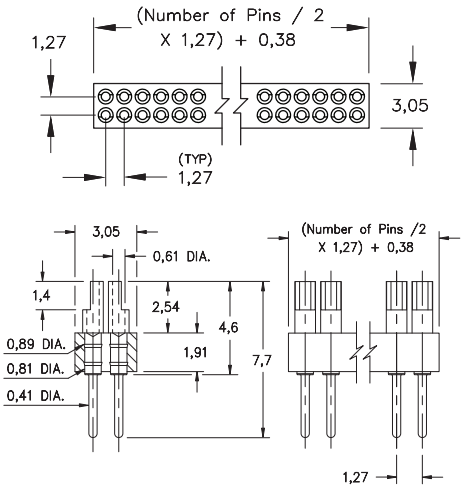


FIG. 1

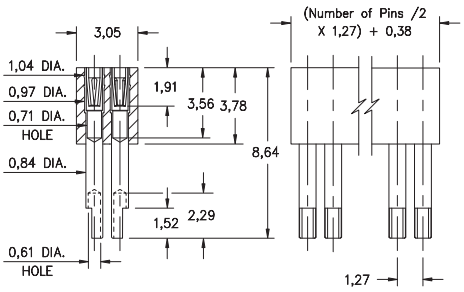
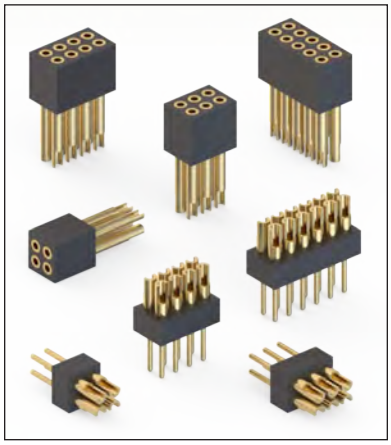


FIG. 2

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 852 headers use MM #3050-0 pins. See page 244 for details
- Series 853 sockets use MM #1157-0 receptacles that accept pin diameters from 0,38 - 0,51. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1

Series 852...003 **Double Row Solder Cup / Solder Tail**

852-XX-_ _ _-10-003000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2

Series 853...003 **Double Row Solder Cup Sockets**

853-XX-_ _ _-10-003000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆						
Sleeve (Pin)	0,25µm Au						
Contact (Clip)	0,76µm Au						

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SERIES 850, 851, 852, 853 • 1,27 GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

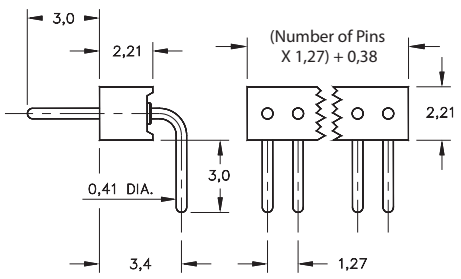

FIG. 1

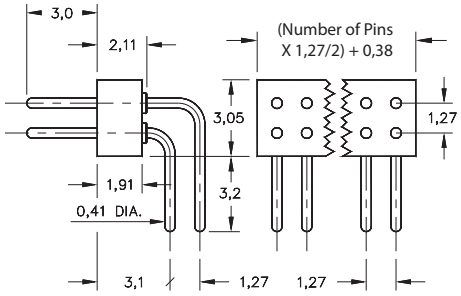

FIG. 2

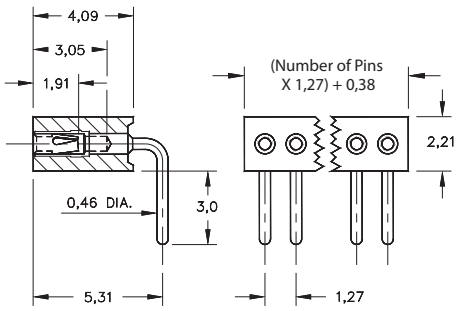

FIG. 3

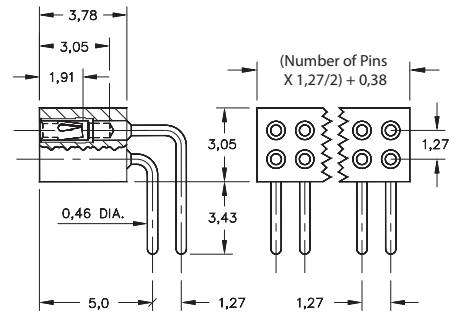

FIG. 4

- Series 850 and 851 interconnects are available in single and double row form
- Series 850 & 852 headers use MM #4006-1 and #4006-2 pins. See page 208 for details
- Series 851 & 853 sockets use MM #4890-1 and #4890-2 receptacles that accept pin diameters from 0,38 - 0,53. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1 — **Series 850...001 Single Row Right Angle Pin Header**

850-XX-0__-20-001000

Specify number of pins 01-50

FIG. 2 — **Series 852...001 Double Row Right Angle Pin Header**

852-XX-___-20-001000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 851...001 Single Row Right Angle Socket**

851-XX-0__-20-001000

Specify number of pins 01-50

FIG. 4 — **Series 853...001 Double Row Right Angle Socket**

853-XX-___-20-001000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=			93	99		43 ◆	47 ◆
Sleeve (Pin)			5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn
Contact (Clip)			0,76µm Au	2,54µm Sn/Pb		0,76µm Au	Au Flash

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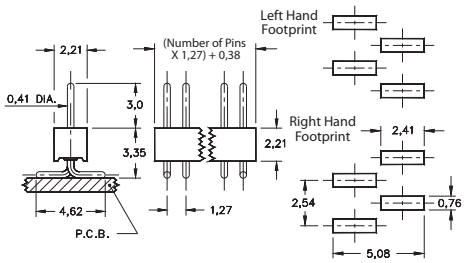
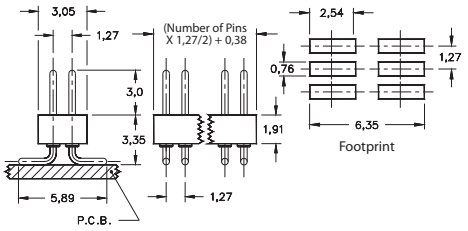
INTERCONNECTS

SERIES 850, 851, 852, 853 • 1,27 GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS



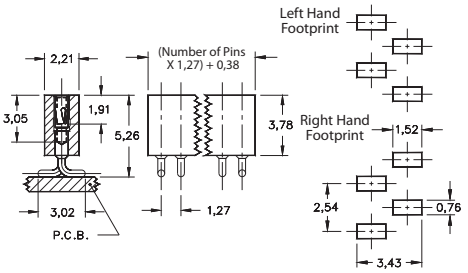
Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 1



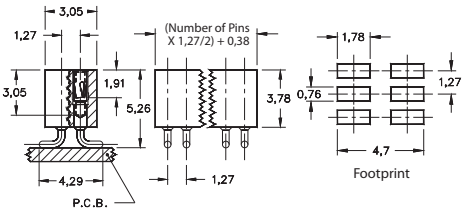
Coplanarity 0,13. For pin counts >40 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

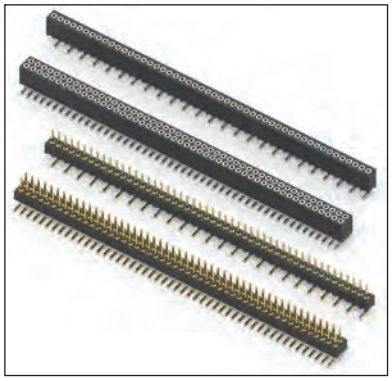
FIG. 3



Coplanarity 0,13. For pin counts >40 positions, consult Technical Support.

FIG. 4

- Single row interconnects having an even number of pins are now available with a left or right hand footprints
- Headers (850 and 852) use MM #4006 pins. See page 208 for details
- Sockets (851 and 853) use MM #4890-0 receptacles and accept pin diameters from 0,38 - 0,51. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	**Single Row Header, Left Hand Footprint, Odd or Even # of Pins** 850-XX-0_ _-30-001000 **Specify number of pins** ← 02-50
FIG. 1R	**Single Row Header, Right Hand Footprint, Even # of Pins** 850-XX-0_ _-30-002000 **Specify number of pins** ← 02-50
FIG. 2	**Double Row Header, Even # of Pins** 852-XX-_ _ _-30-001000 **Specify number of pins** ← 004-100

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3L	**Single Row Socket, Left Hand Footprint, Odd or Even # of Pins** 851-XX-0_ _-30-001000 ★ **Specify number of pins** ← 02-50
FIG. 3R	**Single Row Socket, Right Hand Footprint, Even # of Pins** 851-XX-0_ _-30-002000 **Specify number of pins** ← 02-50
FIG. 4	**Double Row Socket, Even # of Pins** 853-XX-_ _ _-30-001000 ★ **Specify number of pins** ← 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

★ 44 Plating Non-Standard

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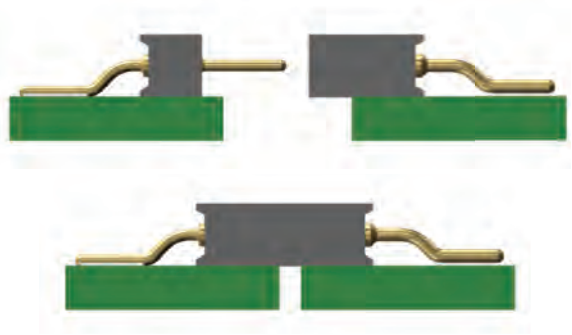
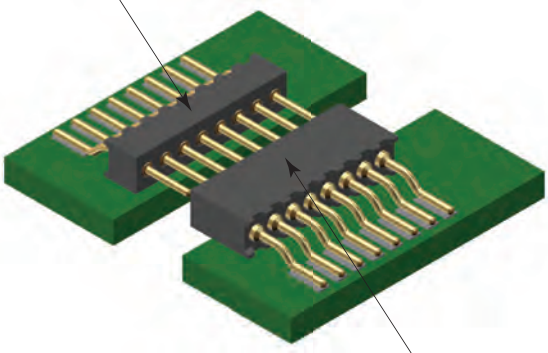
HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS

Z-Bend Style
SIP Header & Socket
HSMT (1,27 Grid)



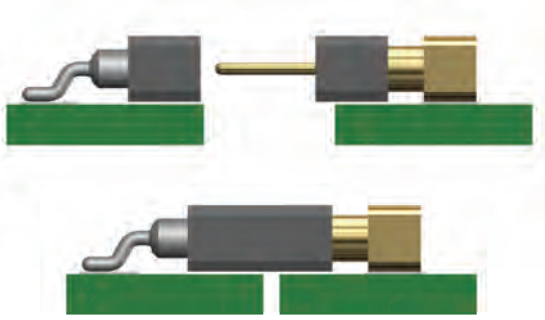
850-10-0XX-40-001000
1,27 Grid (See Page 40)



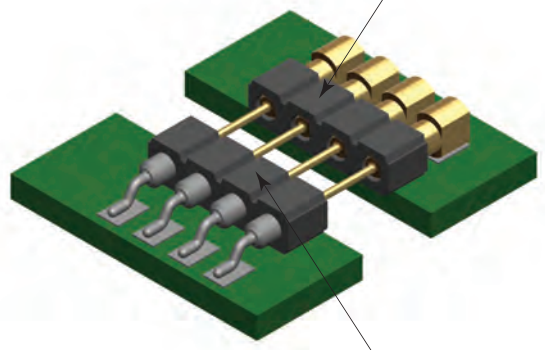
851-13-0XX-40-001000
1,27 Grid (See Page 40)

Z-Bend Style
SIP Socket HSMT
(2,54 Grid)

Block Style
SIP Header HSMT
(2,54 Grid)



351-10-1XX-40-002000
2,54 Grid (See Page 50)



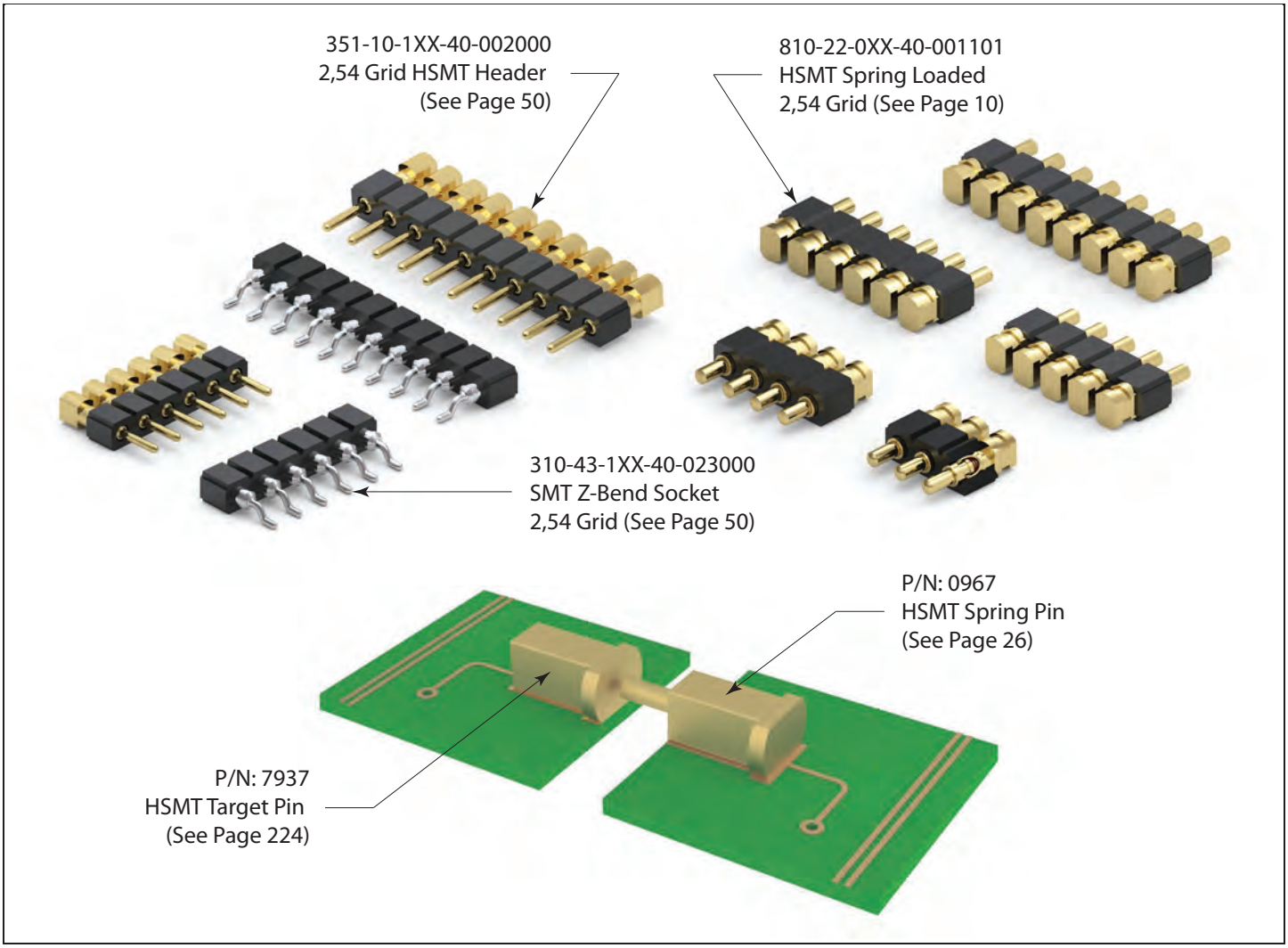
310-43-1XX-40-023000
2,54 Grid (See Page 50)

Mill-Max Mfg. offers a complete line of Horizontal Surface Mount products including headers and sockets on 1,27mm and 2,54mm grid, discrete spring-loaded and mating target pins and spring-loaded connector strips.

For low profile IO applications surface mount SIP sockets and headers strips are assembled parallel to the board surface. They are ideal for placement near the board edge for easy access test connections & creating pluggable adapter modules which can sit perpendicular to the motherboard (mated to a vertical connector), effectively conserving precious board real estate.

HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS



Mill-Max Mfg's #0967 (featured above) is a low profile, horizontal, surface mount spring pin designed for edge board interface applications: board-to-board or device-to-board. The #0967 mounts parallel to the P.C. board so that the plunger travel is horizontal to the board surface. The above board height of 2,54mm provides a low profile for tight packaging requirements. Typically mounted on the edge of the P.C. board, it can be mated with a board running perpendicular to it, or parallel P.C. boards can be daisy-chained together by using the Mill-Max Mfg. #7937 horizontal SMT target pin and #0967 on opposing boards.

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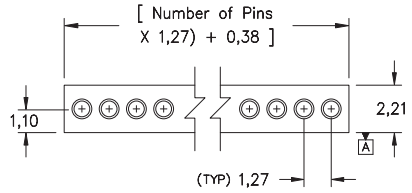
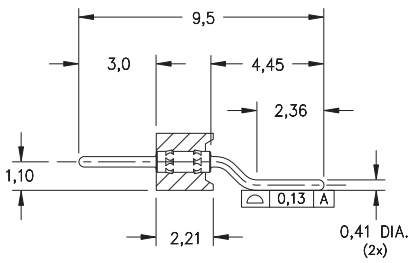
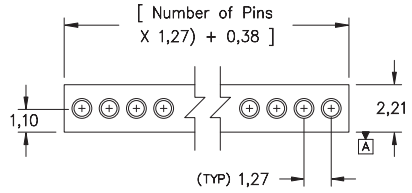
SERIES 850 & 851 • 1,27 GRID HORIZONTAL SURFACE MOUNT Z-BEND HEADERS & SOCKETS • SINGLE ROW STRIPS

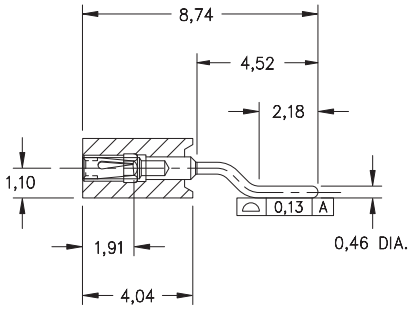




Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 1

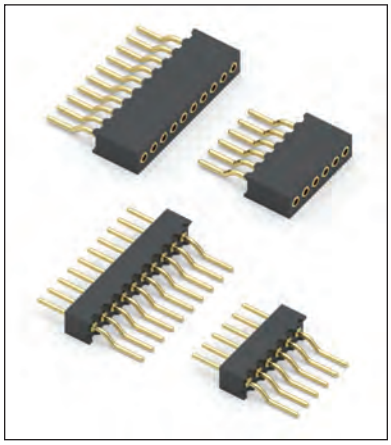




Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 2

- Series 850 horizontal surface mount headers have 0,41 dia. pluggable pins and Z-bend tails for SMT soldering to the P.C.B. (MM #4006-1). See page 208 for details
- Series 851 horizontal Surface Mount Z-Bend sockets uses MM #4890-1 receptacles that accept pin diameters from 0,38 - 0,51. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1

Series 850...001 Single Row Surface Mount Z-Bend Header

850-10-0__-40-001000

Specify number of pins 02-20

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2

Series 851...001 Single Row Surface Mount Z-Bend Socket

851-XX-0__-40-001000

Specify number of pins 02-20

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆					
Sleeve (Pin)	0,25µm Au	0,25µm Au					
Contact (Clip)	0,25µm Au	0,76µm Au					

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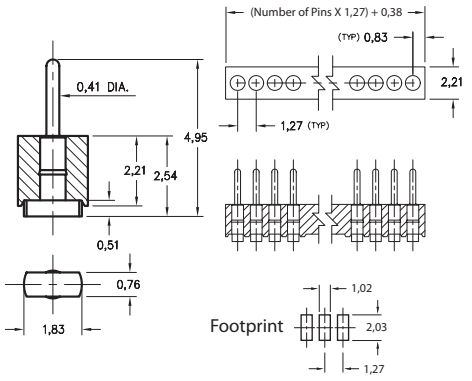
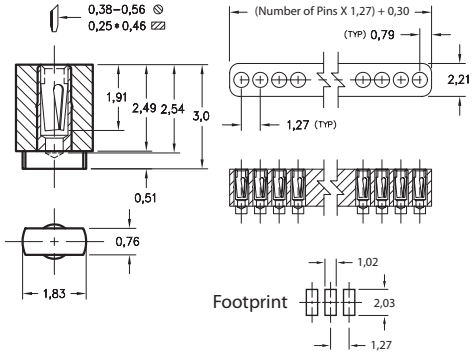
SERIES 340 & 399 • 1,27 AND 2,54 GRID SURFACE MOUNT HEADERS & SOCKETS • SINGLE ROW STRIPS



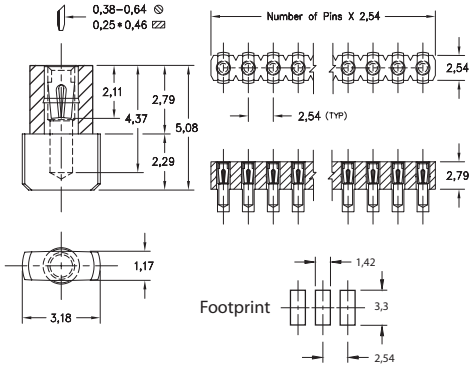
Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 1



Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 3

- Series 340 and 399 interconnects are single row headers & sockets having unique surface mount "block" terminals
- "Block" termination makes the interconnects "self standing". This also minimizes profile and reduces the footprint compared with traditional "gullwing" designs
- Series 399 is a matched pair of 1,27 pitch sockets and headers with a mated height of only 5,54
- Series 340 is a 2,54 pitch SIP socket using a Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering processes

ORDERING INFORMATION

FIG. 1 — **Series 399...310 Single Row 1,27 Grid Header**

399-10-0__-00-310000

Specify number of pins 02-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2 — **Series 399...300 Single Row 1,27 Grid Socket**

399-XX-0__-21-300000

Specify number of pins 02-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91			41 ◆		
Sleeve (Pin)		5,08µm Sn/Pb			5,08µm Sn		
Contact (Clip)		0,25µm Au			0,25µm Au		

FIG. 3 — **Series 340...780 Single Row 2,54 Grid Socket**

340-XX-1__-30-780100

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				2,54µm Sn/Pb			2,54µm Sn

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SERIES 870 & 871 • 1,78 GRID (0,46 DIA.) PINS, RIGHT ANGLE HEADERS & SOCKETS • SINGLE ROW STRIPS

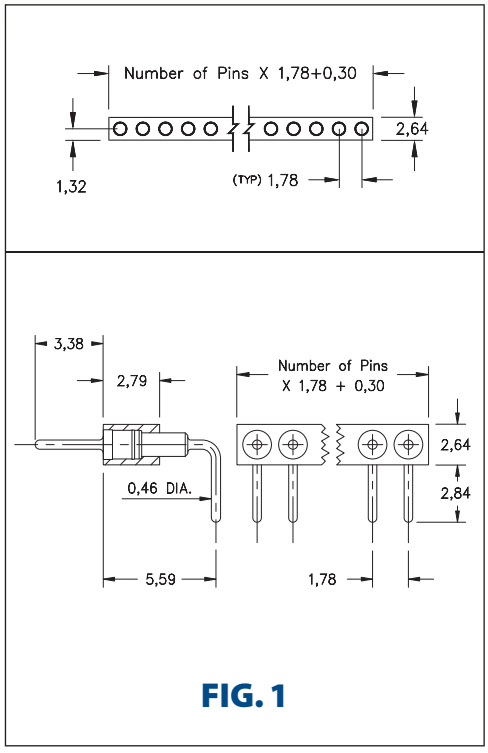


FIG. 1

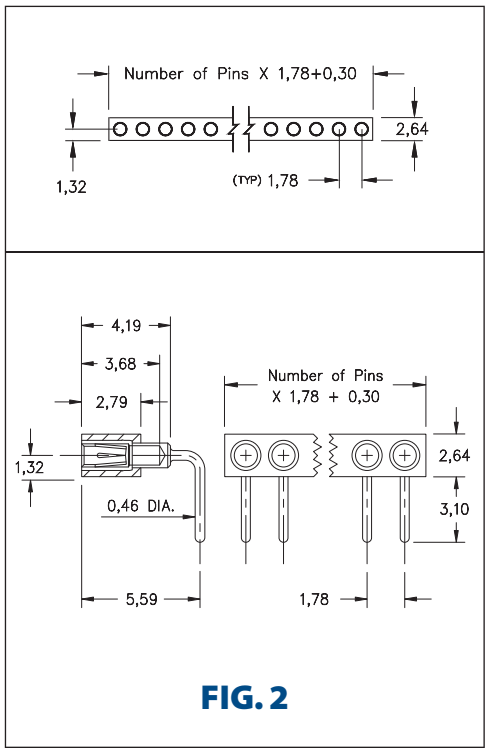
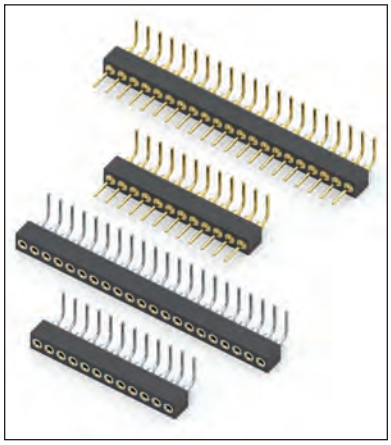


FIG. 2

- Series 870 and 871 Interconnects feature space saving 1,78 pitch
- Series 870 uses MM #3790-0 pins. See page 209 for details
- Series 871 uses MM #1805 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1

Series 870...20-001 — **Right Angle Pin Header**

870-10-0__-20-001000

Specify number of pins 02-21

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2

Series 871...20-001 — **Right Angle Socket**

871-XX-0__-20-001000

Specify number of pins 02-21

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=					41 ◆	43 ◆	
Sleeve (Pin)					5,08µm Sn	5,08µm Sn	
Contact (Clip)					0,25µm Au	0,76µm Au	

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SERIES 830, 831, 832, 833 • 2mm GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

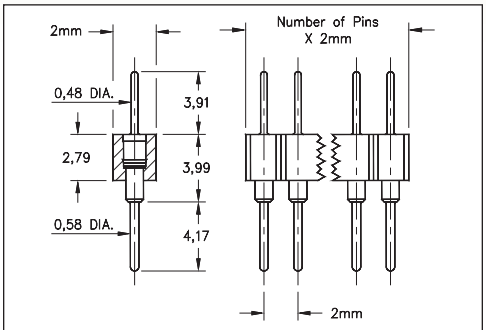


FIG. 1

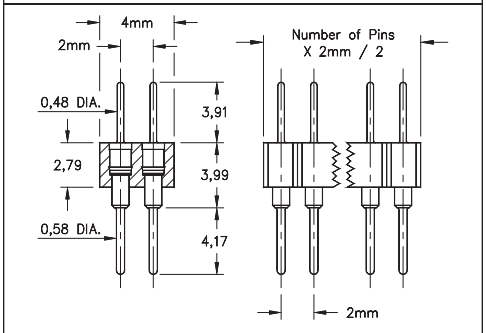


FIG. 2

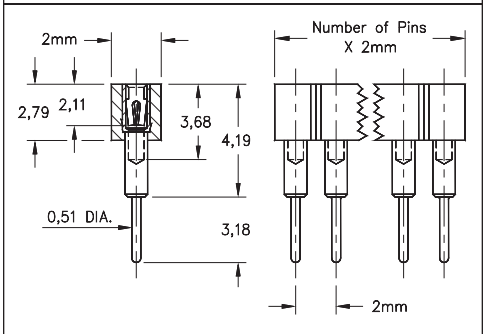


FIG. 3

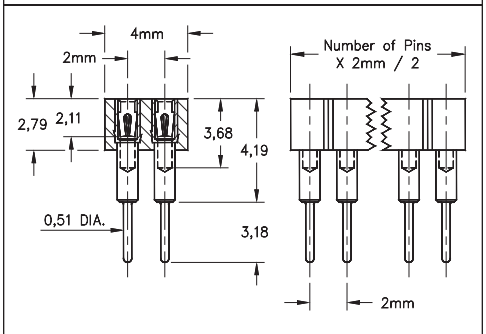
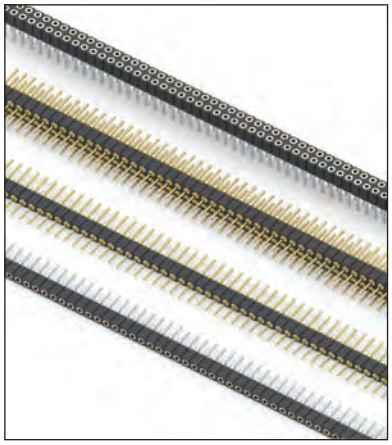


FIG. 4

- Series 830 single & double row interconnects have 2mm pin spacing and permit board stacking as low as 8,18
- Pin headers (830 & 832 series) use MM #5012 pins. See page 208 for details
- Sockets (831 & 833 series) use MM #1802 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Contact is rated at 3 amps
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 830...001 — Single Row Pin Header**

830-XX-0__-10-001000

Specify number of pins ← 01-50

FIG. 2 — **Series 832...001 — Double Row Pin Header**

832-XX-___-10-001000

Specify number of pins ← 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 831...001 — Single Row Socket**

831-XX-0__-10-001000

Specify number of pins ← 01-50

FIG. 4 — **Series 833...001 — Double Row Socket**

833-XX-___-10-001000

Specify number of pins ← 004-100

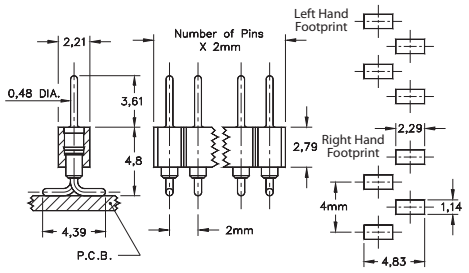
RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

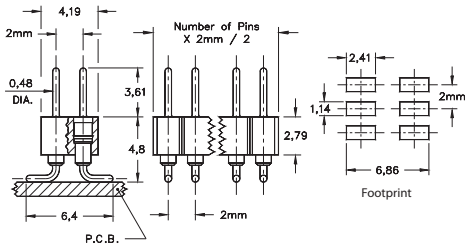
SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

SERIES 830, 831, 832, 833 • 2mm GRID GULL WING SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS



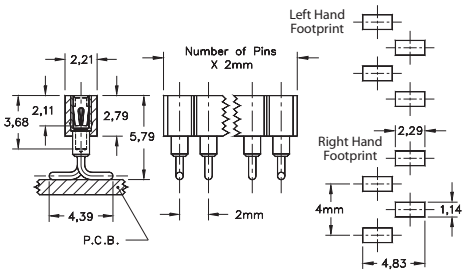
Coplanarity 0,13. For pin counts >12 positions, consult Technical Support.

FIG. 1



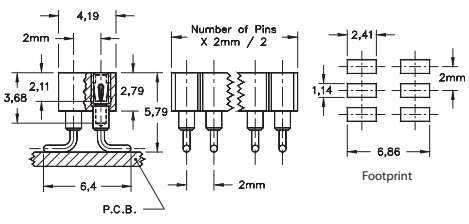
Coplanarity 0,13. For pin counts >24 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For pin counts >12 positions, consult Technical Support.

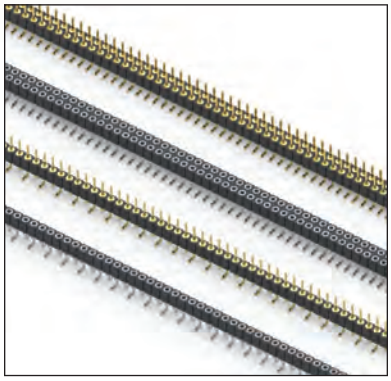
FIG. 3



Coplanarity 0,13. For pin counts >24 positions, consult Technical Support.

FIG. 4

- Headers (830 & 832) use MM #6218 pins. See page 208 for details
- Sockets (831 & 833) use MM #1802 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Coplanarity 0,13 (Single Row max 12 pins; Double Row max 24 pins) For higher pin counts, contact Technical Support
- Contact is rated at 3 amps
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	**Single Row Header, Left Hand Footprint, Odd or Even # of pins**
	830-XX-0_ _-30-001000
	Specify number of pins 02-50
FIG. 1R	**Single Row Header, Right Hand Footprint, Even # of pins**
	830-XX-0_ _-30-002000
	Specify number of pins 02-50
FIG. 2	**Double Row Header, Even # of pins**
	832-XX-_ _ _-30-001000
	Specify number of pins 004-100

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

FIG. 3L	**Single Row Socket, Left Hand Footprint, Odd or Even # of pins**
	831-XX-0_ _-30-001000
	Specify number of pins 02-50
FIG. 3R	**Single Row Socket, Right Hand Footprint, Even # of pins**
	831-XX-0_ _-30-002000
	Specify number of pins 02-50
FIG. 4	**Double Row Socket, Even # of pins**
	833-XX-_ _ _-30-001000
	Specify number of pins 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 830 AND 832 • 2mm GRID SOLDER CUP HEADERS, SINGLE ROW RIGHT ANGLE, SINGLE AND DOUBLE ROW STRAIGHT

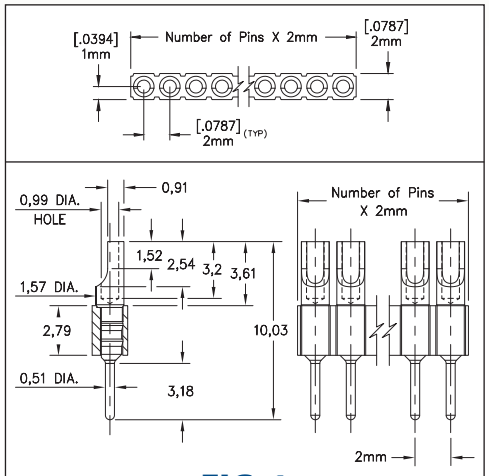


FIG. 1

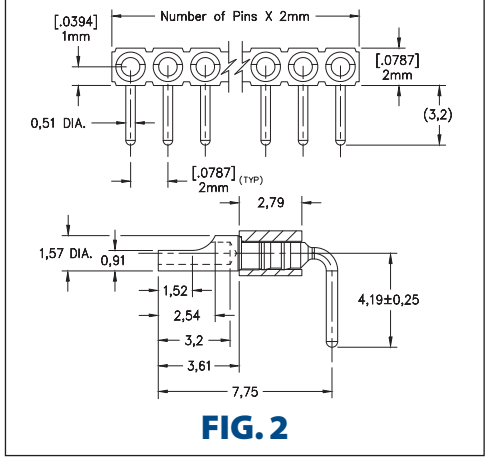


FIG. 2

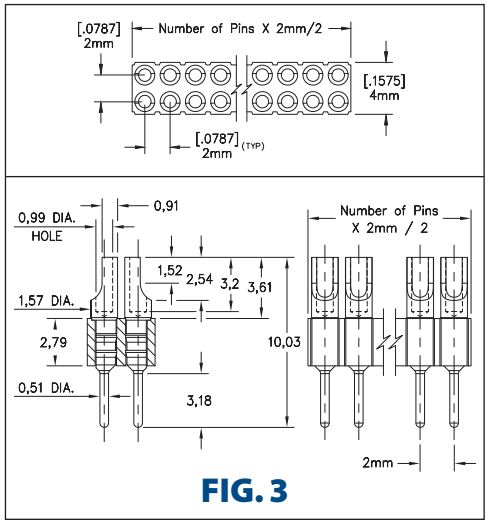
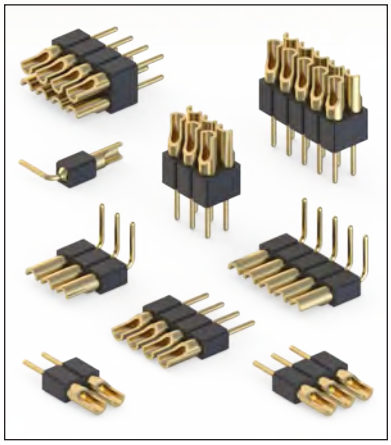


FIG. 3

- Series 830 & 832 solder cup headers for 2mm pitch wire termination applications
- 0,51 diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Connectors feature uniformly aligned solder cups & anti-rotation construction to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Series 830 right angle headers are low profile and minimize wire manipulation for parallel mating conditions
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — Series 830...005 — Single Row Solder Cup Header

830-10-0_ _-10-005000

Specify number of pins → 01-50

FIG. 2 — Series 830...005 — Solder Cup Header Right Angle

830-10-0_ _-20-005000

Specify number of pins → 01-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 3 — Series 832...005 — Double Row Solder Cup Header

832-10-_ _ _-10-005000

Specify number of pins → 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SERIES 830, 831, 832, 833 • 2mm GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

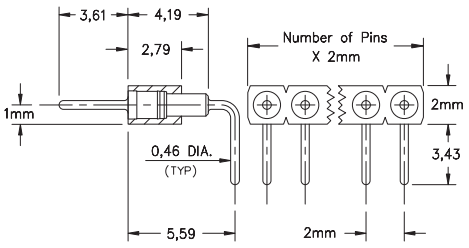


FIG. 1

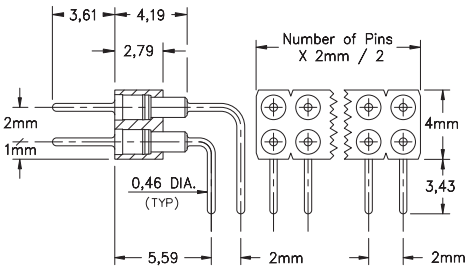


FIG. 2

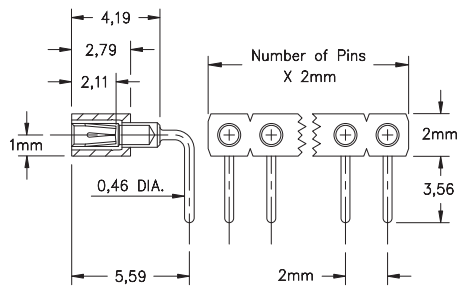


FIG. 3

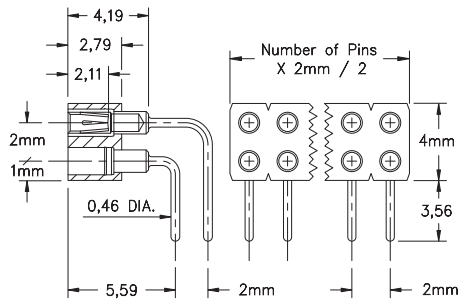
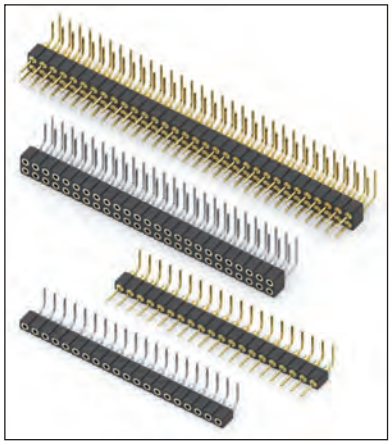


FIG. 4

- Series 830 & 832 use MM #3790 & MM #3796 pins. See page 209 for details
- Series 831 & 833 use MM #1805 and MM #3805 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Receptacles use Hi-Rel, Low force, 6-finger BeCu #32 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 830...001 Single Row Right Angle Header**

830-10-0_ _-20-001000

Specify number of pins 01-50

FIG. 2 — **Series 832...001 Double Row Right Angle Header**

832-10-_ _ _-20-001000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 3 — **Series 831...001 Single Row Right Angle Socket**

831-XX-0_ _-20-001000

Specify number of pins 01-50

FIG. 4 — **Series 833...001 Double Row Right Angle Socket**

833-43-_ _ _-20-001000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=					41 ◆	43 ◆	
Sleeve (Pin)					5,08µm Sn	5,08µm Sn	
Contact (Clip)					0,25µm Au	0,76µm Au	

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INTERCONNECTS

SERIES 832 & 833 • 2mm GRID (0,51 DIA. PINS), SHROUDED STRAIGHT, SURFACE MOUNT & RIGHT ANGLE • DOUBLE ROW STRIPS

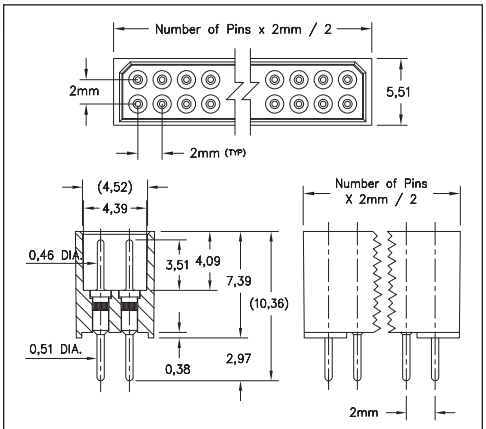


FIG. 1

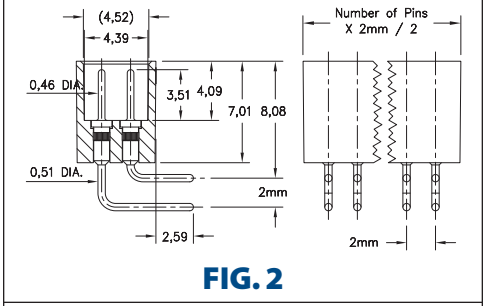


FIG. 2

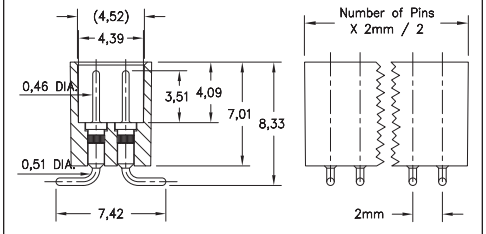


FIG. 3

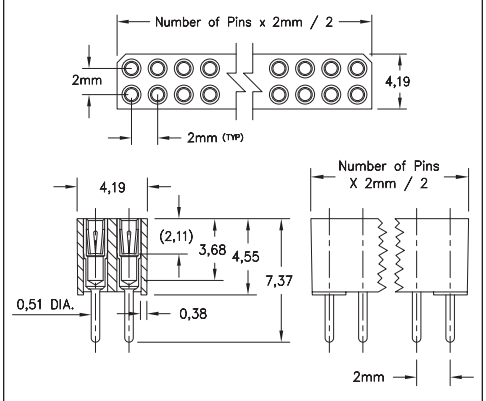
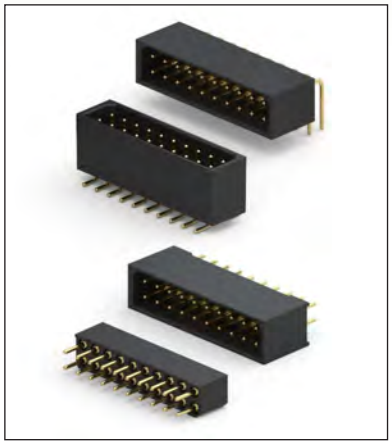


FIG. 4

- Shrouded pin interconnects available with straight Series 832...10-052 or surface mount 832...30-052 and use MM #3143 pins. Series 832...20-052 right angle interconnects use MM #3160 and #3161 pins. See page 214 for details
- Series 833...10-002 with keying features use MM #1802 and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Receptacles use Hi-Rel, Low force, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 832...10-052**	**Straight Pin Header**
	832-10-_ _ _-10-052000	
	Specify number of pins ← 004-100	
FIG. 2	**Series 832...20-052**	**Right Angle Pin Header**
	832-10-_ _ _-20-052000	
	Specify number of pins ← 004-100	
FIG. 3	**Series 832...30-052**	**Surface Mount Pin Header**
	832-10-_ _ _-30-052000	
	Specify number of pins ← 004-100	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 4	**Series 833...10-002**	**Double Row Keying Socket**
	833-13-_ _ _-10-002000	
	Specify number of pins ← 004-100	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		13 ◆					
Sleeve (Pin)		0,25µm Au					
Contact (Clip)		0,76µm Au					

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SERIES 315 & 415 • 2,54 GRID, SUPER LOW PROFILE SOCKETS • SINGLE AND DOUBLE ROW STRIPS

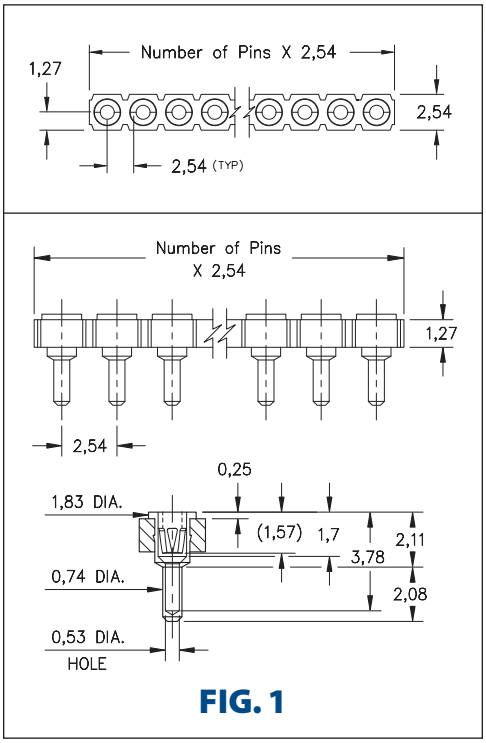


FIG. 1

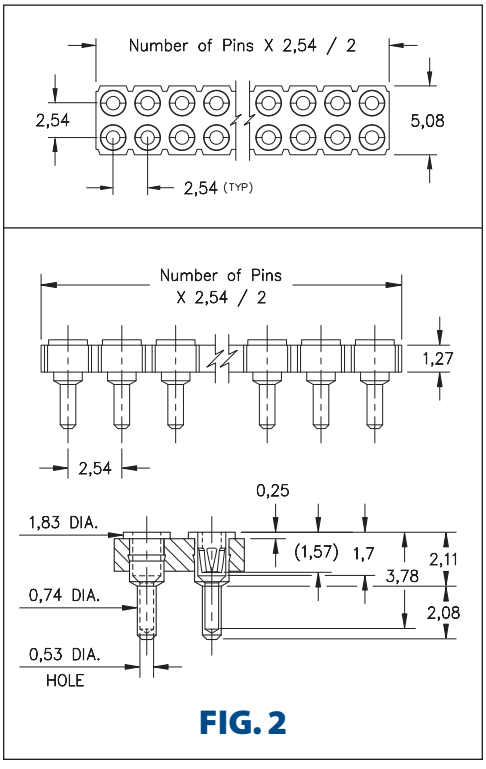
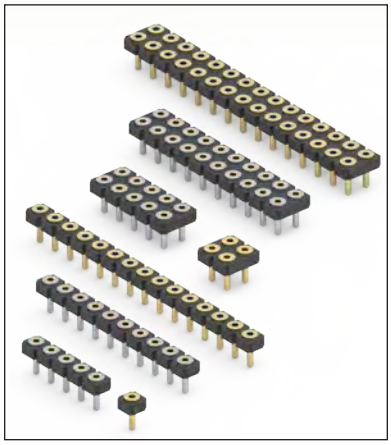


FIG. 2

- Series 315 and 415 solder mount sockets use MM #0512 receptacles that accept pin diameters from 0,38-0,56 . See pages 161 for details
- Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- 2,11 Super low profile above the board utilizes 1,27 thick insulators
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 315...004**	**Single Row Socket**
	315-XX-1__-41-004000 **Specify number of pins** ↑ 01-32	
FIG. 2	**Series 415...004**	**Double Row Socket**
	415-XX-2__-41-004000 **Specify number of pins** ↑ 04-72	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆		93		43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au		0,76µm Au		0,76µm Au	2,54µm Sn	Au Flash

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INTERCONNECTS

SERIES 301, 310, 350, 399 • 2,54 GRID (0,46 DIA.) PINS, STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

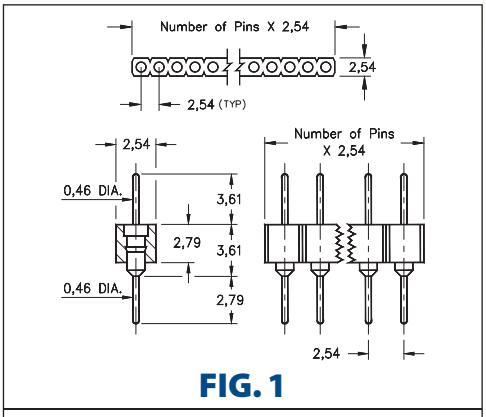


FIG. 1

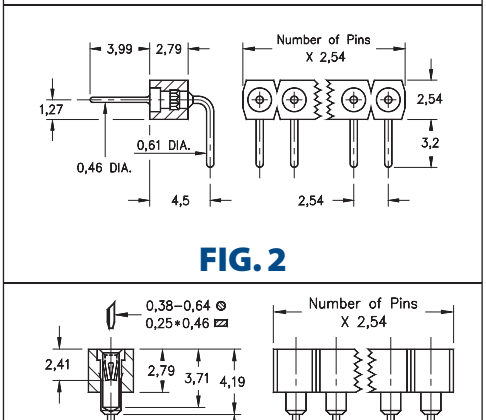


FIG. 2

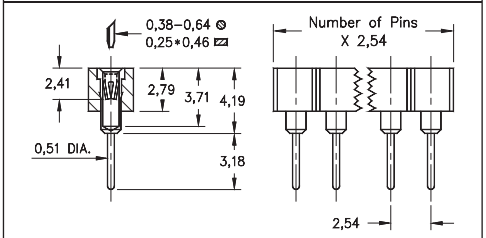


FIG. 3

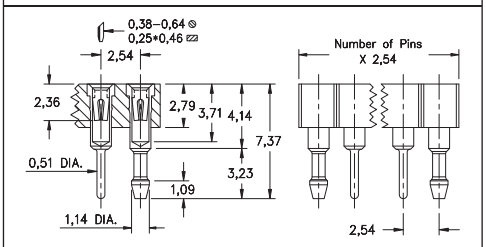


FIG. 4

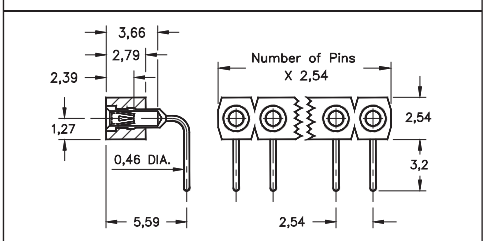
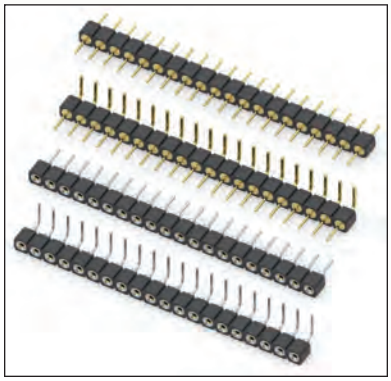


FIG. 5

- Series 3XX are available with straight and right angle solder tails
- Series 350 & 399...009 use MM #3404 and #5011 pins. See pages 212 & 214 for details
- Series 301, 310 & 399...003 use MM #0156, #1001 & #1103 receptacles. See pages 165 and 166 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 350...006** — **Straight Pin Header**

350-XX-1__-00-006000

Specify number of pins 01-64

FIG. 2 — **Series 399...009** — **Right Angle Pin Header**

399-XX-1__-10-009000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 310...001** — **Solder Tail Socket**

310-XX-1__-41-001000

Specify number of pins 01-64

FIG. 4 — **Series 301...056** — **Socket with Retention Pins**

301-43-1__-41-560000

Specify number of pins 03-64

FIG. 5 — **Series 399...003** — **Right Angle Socket**

399-XX-1__-10-003000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

★ 41, 91 & 99 Platings Non-Standard

SERIES 410, 450, 499 • 2,54 GRID (0,46 DIA.) PINS, STRAIGHT AND RIGHT ANGLE • DOUBLE ROW STRIPS

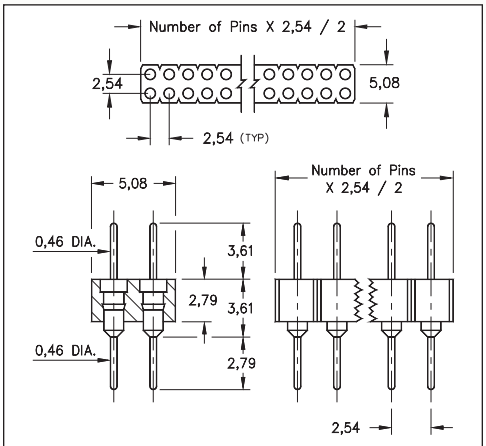


FIG. 1

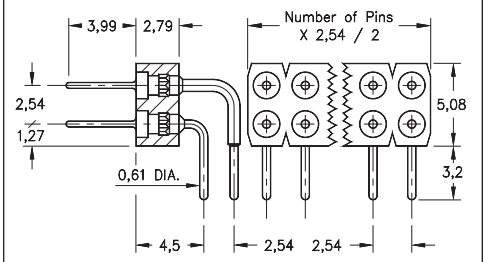


FIG. 2

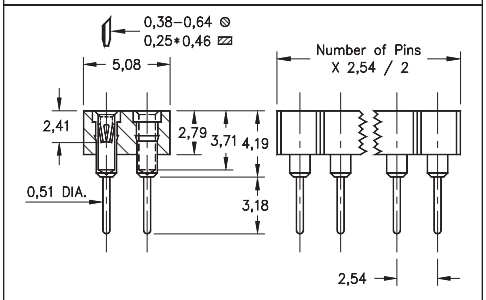


FIG. 3

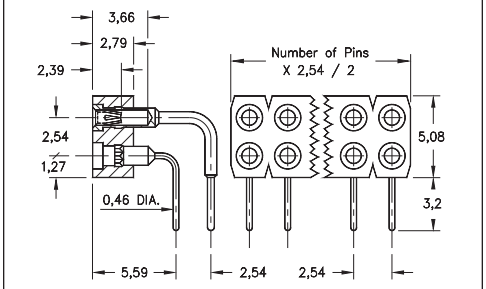
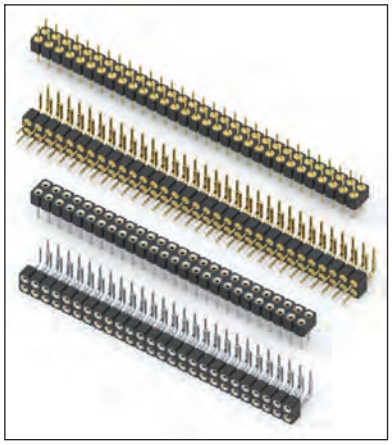


FIG. 4

- Series 4XX are available with straight and right angle solder tails
- Series 450 & 499...009 use MM #3404 and #5011/5113 pins. See pages 212 and 214 for details
- Series 410 & 499...003 use MM #1001 and #1103/1602 receptacles. See pages 165, 166 and 167 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 450...006** — **Straight Pin Header**

450-XX-2__-00-006000

Specify number of pins 04-64

FIG. 2 — **Series 499...009** — **Right Angle Pin Header**

499-10-2__-10-009000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 410...001** — **Solder Tail Socket**

410-XX-2__-41-001000

Specify number of pins 04-64

FIG. 4 — **Series 499...003** — **Right Angle Socket**

499-XX-2__-10-003000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	41 ◆	43 ◆	
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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SERIES 380 & 480 • 2,54 GRID LOW PROFILE SOLDER CUP HEADERS
SINGLE AND DOUBLE ROW STRIPS

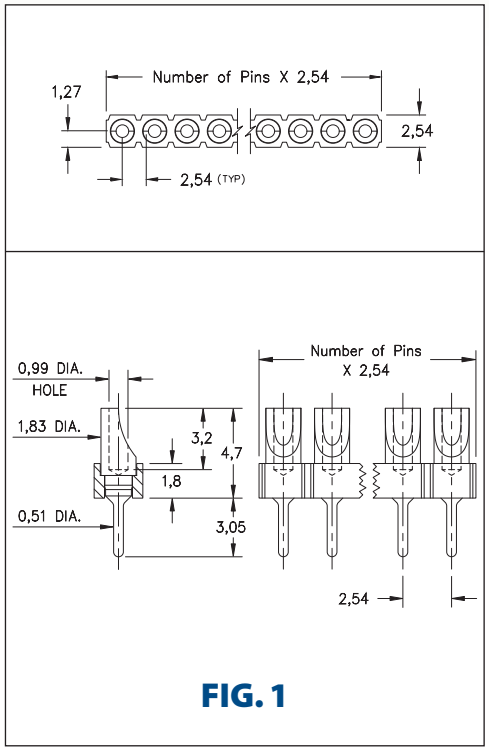


FIG. 1

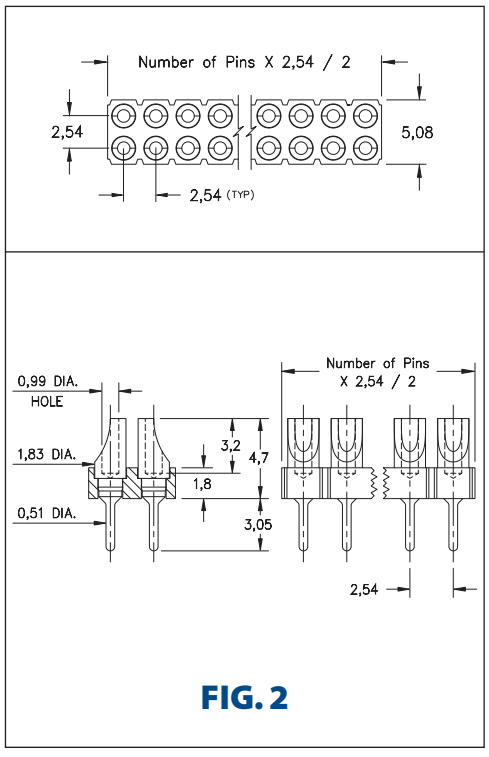
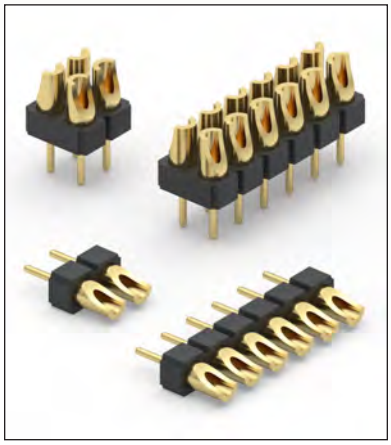


FIG. 2

- Series 380 & 480 solder cup headers for low profile wire termination applications
- 0,51 diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Solder cups are uniformly aligned to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1

Series 380...002 **Single Row Solder Cup Header**

380-10-0__-00-002000

Specify number of pins 01-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2

Series 480...002 **Double Row Solder Cup Header**

480-XX-0__-00-002000

Specify number of pins 02-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SERIES 329, 380, 429, 480 • 2,54 GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

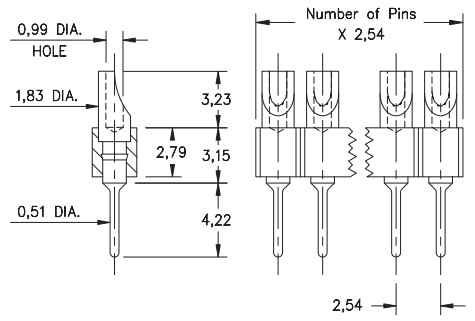


FIG. 1

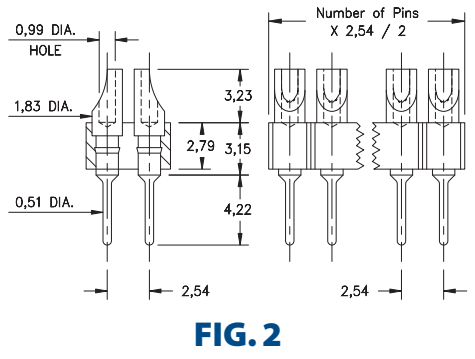


FIG. 2

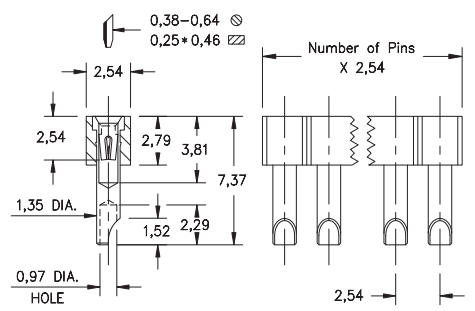


FIG. 3

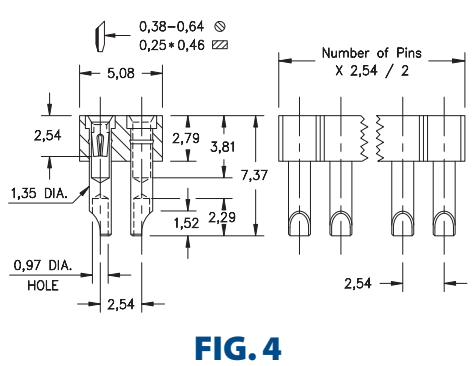
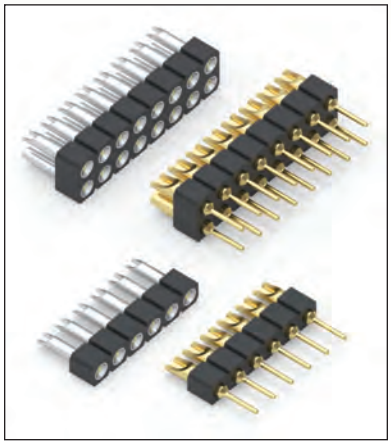


FIG. 4

- Series 380 & 480 use MM #8000 pins. See page 216 for details
- Series 329 & 429 use MM #2954 receptacles and accept pin diameters from 0,38 - 0,64. See page 171 for details
- Series 329 & 429 receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Soldercups are pre-aligned
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 380...001** — **Single Row Solder Cup / Solder Tail**

380-XX-1__-00-001000

Specify number of pins 01-64

FIG. 2 — **Series 480...001** — **Double Row Solder Cup / Solder Tail**

480-10-2__-00-001000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 329...540** — **Single Row Solder Cup Sockets**

329-XX-1__-41-540000

Specify number of pins 01-64

FIG. 4 — **Series 429...540** — **Double Row Solder Cup Sockets**

429-XX-2__-41-540000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆			41 ◆	43 ◆	
Sleeve (Pin)	0,25µm Au	0,25µm Au			5,08µm Sn	5,08µm Sn	
Contact (Clip)	0,25µm Au	0,76µm Au			0,25µm Au	0,76µm Au	

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SERIES 329, 340, 406, 414, 429 • 2,54 GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

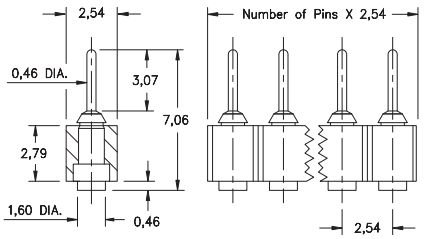


FIG. 1

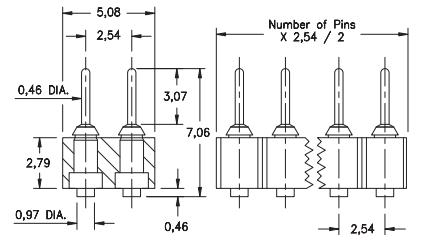


FIG. 2

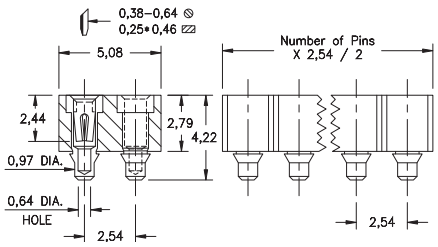
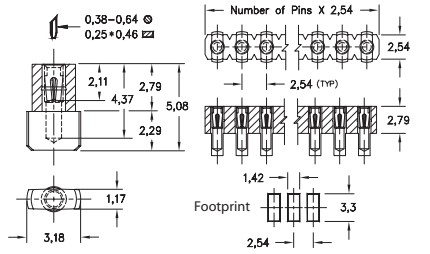


FIG. 3



Coplanarity 0,13. For pin counts >24 positions, consult Technical Support.

FIG. 4

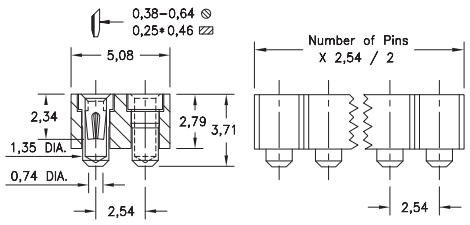
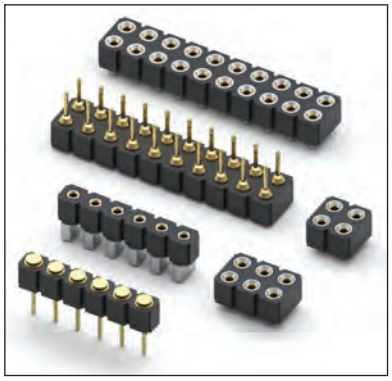


FIG. 5

- Series 329 and 429 pin interconnects feature space saving, pad style SMT termination using MM #2956-X pins. See page 218 for details
- Series 429 and 414 combine for a mated height of 8,20
- Series 340, 406 and 414 surface mount sockets use MM #4078, #0668 and #1434 receptacles. See pages 162, 164 and 167 for details
- Series 340, 406 and 414 receptacles use Hi-Rel, 4-finger BeCu #30 contacts rated at 3 amps. Receptacles accept 0,38 - 0,64 diameter pins See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 329...560** Single Row Surface Mount Pin Header				
	329-10-1__-00-560000				
	Specify number of pins 02-64				
FIG. 2	**Series 429...560** Double Row Surface Mount Pin Header				
	429-10-2__-00-560000				
	Specify number of pins 04-72				
SPECIFY PLATING CODE XX=	10 ◆				
Pin Plating	0,25µm Au				
FIG. 3	**Series 414...117** Double Row Surface Mount Socket				
	414-XX-2__-41-117000				
	Specify number of pins 04-72				
FIG. 4	**Series 340...780** Single Row Surface Mount Socket				
	340-XX-1__-30-780100				
	Specify number of pins 02-64				
FIG. 5	**Series 406...068** Double Row Surface Mount Socket				
	406-43-2__-30-068000				
	Specify number of pins 04-20				
	Tape and Reel Packaging				
	Ordering Information: 406-43-2XX-30-068001				
	Available on 44mm wide tape, 355 parts per 330mm reel				

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=				99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)				5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)				2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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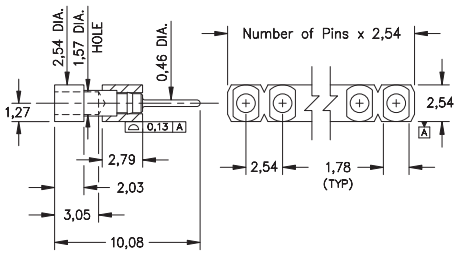
SERIES 310, 330, 351 • 2,54 GRID (0,46 DIA. PINS), SURFACE MOUNT HEADERS AND SOCKETS • SINGLE ROW STRIPS

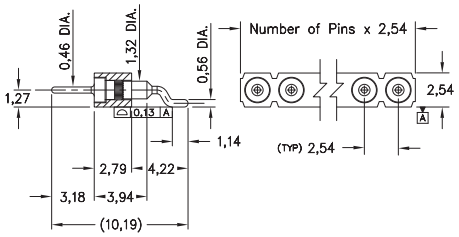
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 1

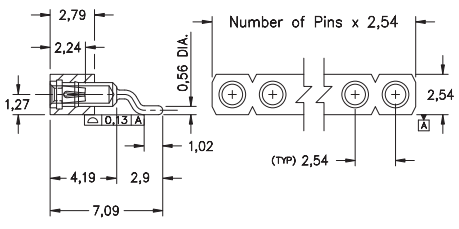
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 2

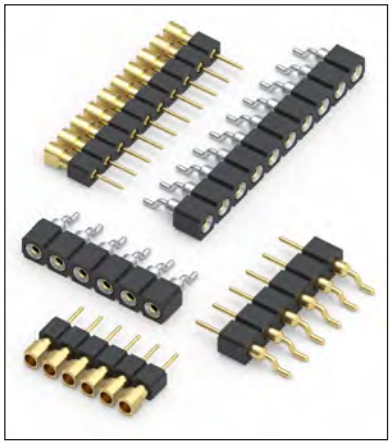
Mates with Series 351...002 and 330...027 Surface Mount Header (See Fig. 1 & 2)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 3

- Series 351 horizontal surface mount headers are availble with 0,46 dia. pluggable pins (MM #5102). Series 330 horizontal surface mount z-bend headers use MM #3027 pins. See page 224 for details
- Series 310 horizontal surface mount Z-Bend sockets uses MM #1023 receptacles that accept pin diameters from 0,38 - 0,64. See pages 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- Ideal for daisy chaining parallel boards



ORDERING INFORMATION

FIG. 1 — **Series 351...002 0,46 Dia. Surface Mount Header**

351-10-1__-40-002000

Specify number of pins → 02-10

FIG. 2 — **Series 330...027 0,46 Dia. Surface Mount Z-Bend Header**

330-XX-1__-40-027000

Specify number of pins → 02-10

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		10 ◆		40 ◆	
Pin Plating		0,25µm Au		5,08µm Sn	

FIG. 3 — **Series 310...023 0,46 Dia. Surface Mount Z-Bend Socket**

310-XX-1__-40-023000

Specify number of pins → 02-10

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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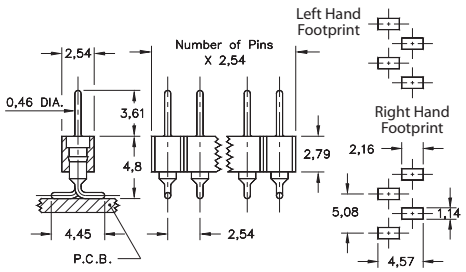
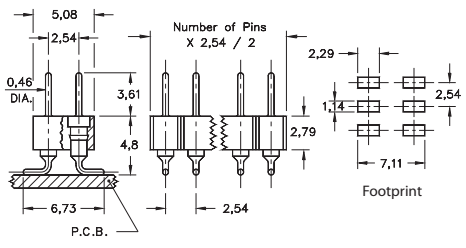
SERIES 310, 350, 410, 450 • 2,54 GRID (0,46 DIA. PINS), SMT GULL WING HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS



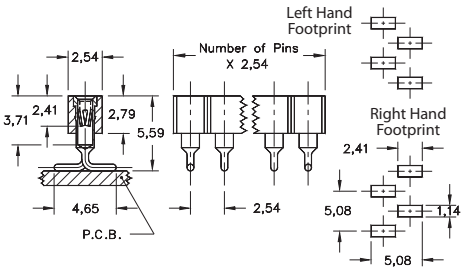
Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 1



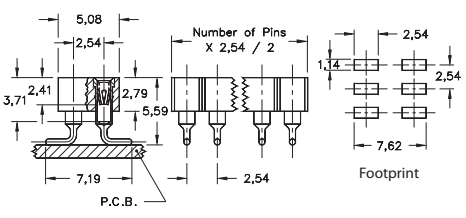
Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 2



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

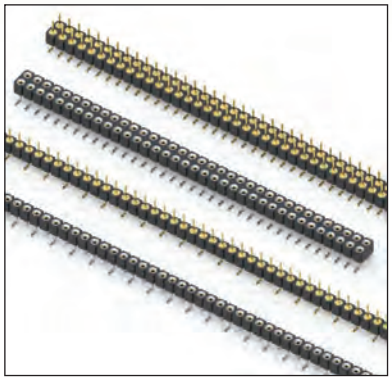
FIG. 3



Coplanarity 0,13. For pin counts >20 positions, consult Technical Support.

FIG. 4

- Headers (350 & 450) use MM #3404 pins. See page 212 for details
- Sockets (310 & 410) use MM #1005 receptacles and accept pin diameters from 0,38 - 0,64. See page 166 for details
- Contact is rated at 3 amps
- Coplanarity 0,13 (single row max. 10 pins; double row max. 20 pins). For higher pin counts, contact Technical Support
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	**Single Row Header, Left Hand Footprint, Odd or Even # of pins**
	350-XX-1__-00-106000 **Specify number of pins** 02-64
FIG. 1R	**Single Row Header, Right Hand Footprint, Even # of pins**
	350-XX-1__-00-107000 **Specify number of pins** 02-64
FIG. 2	**Double Row Header, Even # of pins**
	450-XX-2__-00-106000 **Specify number of pins** 04-72

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3L	**Single Row Socket, Left Hand Footprint, Odd or Even # of pins**
	310-XX-1__-41-105000 **Specify number of pins** 02-64
FIG. 3R	**Single Row Socket, Right Hand Footprint, Even # of pins**
	310-XX-1__-41-107000 **Specify number of pins** 02-64
FIG. 4	**Double Row Socket, Even # of pins**
	410-XX-2__-41-105000 **Specify number of pins** 04-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 350, 450, 801, 803 • 2,54 GRID (0,64 DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

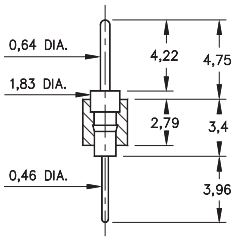


FIG. 1

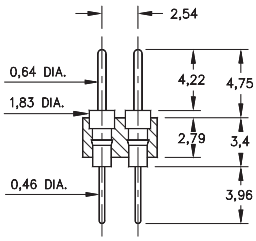


FIG. 2

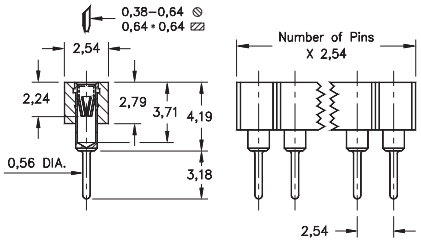


FIG. 3

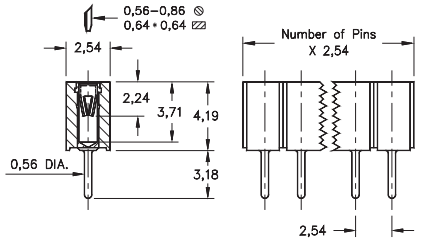


FIG. 4

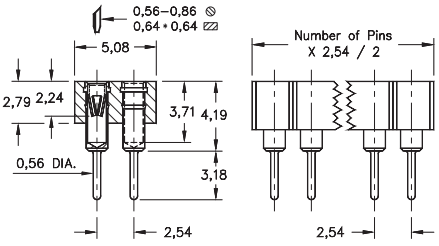
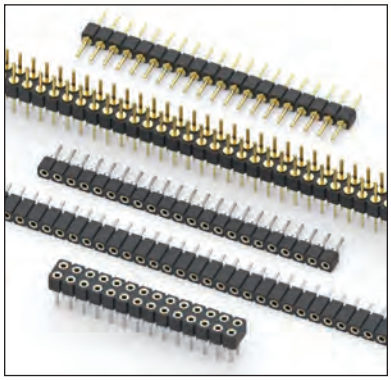


FIG. 5

- Series 350 and 450 single and double row pin headers use MM #0290 pins. See page 215 for details
- Series 801 and 803 single and double row low profile sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #16 contact rated at 4.5 amps. Receptacles accept 0,64 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 350...001** **Single Row 0,64 Pin / 0,46 Solder Tail**

350-XX-1__-00-001000

Specify number of pins 01-64

FIG. 2 — **Series 450...001** **Double Row 0,64 Pin / 0,46 Solder Tail**

450-XX-2__-00-001000

Specify number of pins 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 801...003** **Low Profile Socket** (short insulator)

801-XX-0__-10-003000

Specify number of pins 01-64

FIG. 4 — **Series 801...013** **Low Profile Socket** (long insulator)

801-XX-0__-10-013000

Specify number of pins 01-36

FIG. 5 — **Series 803...003** **Double Row Low Profile Socket**

803-XX-0__-10-003000

Specify number of pins 04-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=					41 ◆	43 ◆	
Sleeve (Pin)					5,08µm Sn	5,08µm Sn	
Contact (Clip)					0,25µm Au	0,76µm Au	

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SERIES 800, 801, 802, 803 • 2,54 GRID (0,76 DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

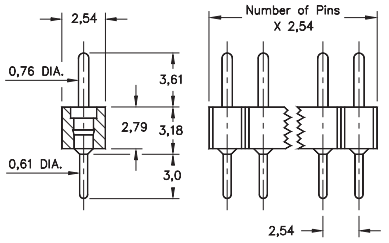


FIG. 1

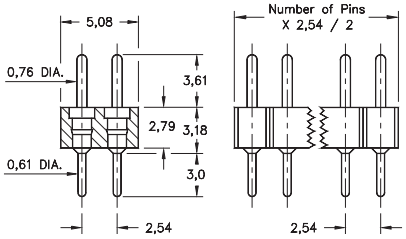


FIG. 2

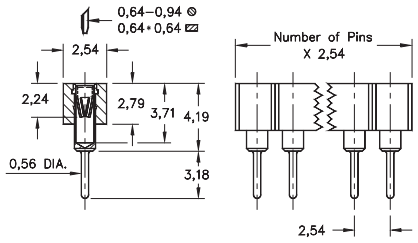


FIG. 3

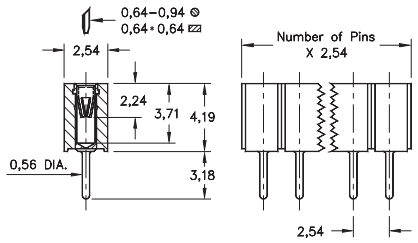


FIG. 4

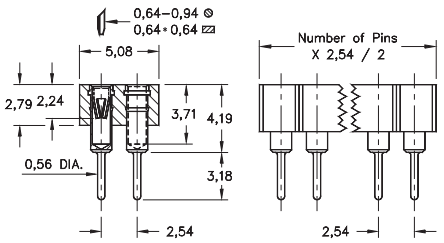
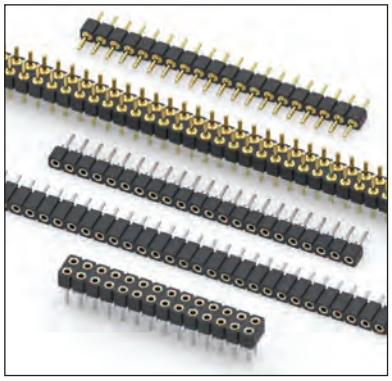


FIG. 5

- Series 800 and 802 single and double row pin headers use MM #5016 pins. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 800...002 Single Row Low Profile Pin Header**

800-XX-0__-10-002000

Specify number of pins 01-64

FIG. 2 — **Series 802...002 Double Row Low Profile Pin Header**

802-XX-0__-10-002000

Specify number of pins 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 801...002 Low Profile Socket** (short insulator)

801-XX-0__-10-002000

Specify number of pins 01-64

FIG. 4 — **Series 801...012 Low Profile Socket** (long insulator)

801-XX-0__-10-012000

Specify number of pins 01-36

FIG. 5 — **Series 803...002 Double Row Low Profile Socket**

803-XX-0__-10-002000

Specify number of pins 04-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	Au Flash

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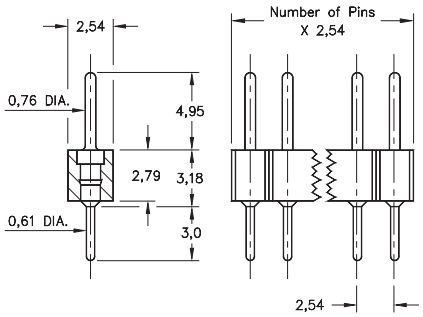


FIG. 1

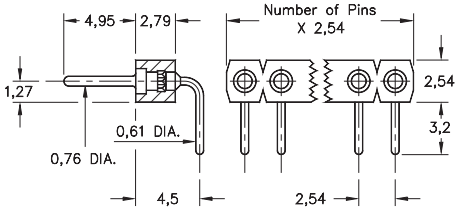


FIG. 2

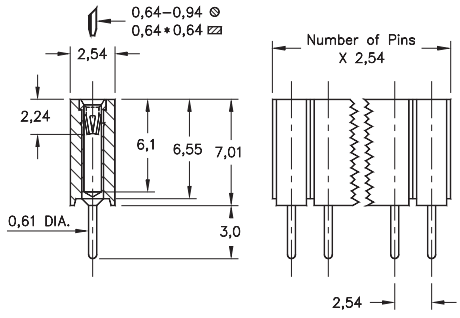


FIG. 3

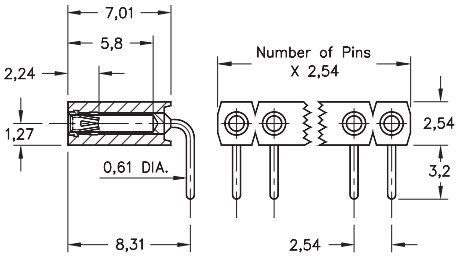
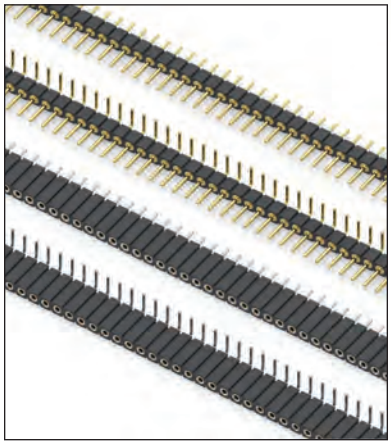


FIG. 4

- Pin interconnects available with straight MM #7007 or right angle MM #5005 solder tails. See page 215 for details
- Sockets are available with straight MM #1304 or right angle MM #1305 soldertails. See pages 177 and 179 for details
- MM #1304 and MM #1305 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 800...10-001** — **Straight Pin Header**

800-XX-0__-10-001000

Specify number of pins 01-64

FIG. 2 — **Series 800...20-001** — **Right Angle Pin Header**

800-XX-0__-20-001000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 801...10-001** — **Straight Socket**

801-XX-0__-10-001000 ★

Specify number of pins 01-50

FIG. 4 — **Series 801...20-001** — **Right Angle Socket**

801-XX-0__-20-001000 ★

Specify number of pins 01-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

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SERIES 802 & 803 • 2,54 GRID (0,76 DIA. PINS), STRAIGHT & RIGHT ANGLE HEADERS AND SOCKETS • DOUBLE ROW STRIPS

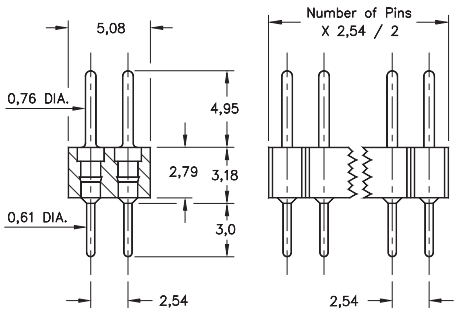


FIG. 1

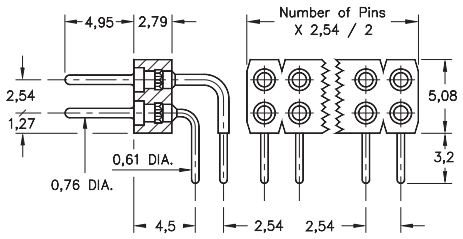


FIG. 2

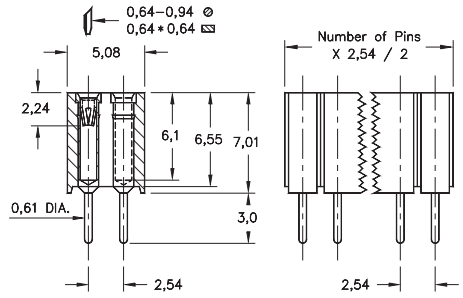


FIG. 3

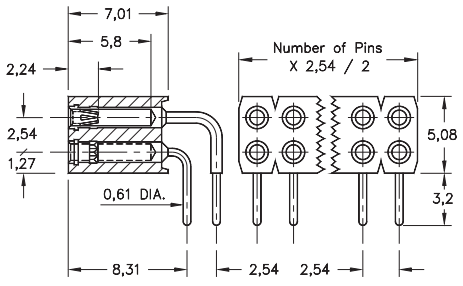
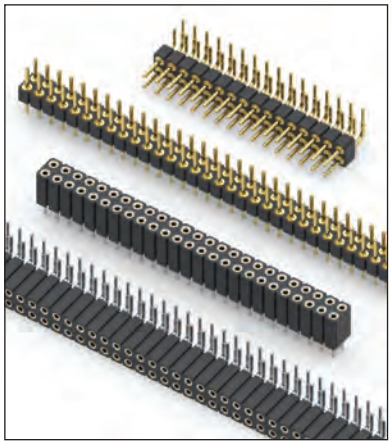


FIG. 4

- Pin interconnects available with straight MM #7007 or right angle MM #5005/5107 solder tails. See page 215 for details
- Sockets are available with straight MM #1304 or right angle MM #1305/1306 soldertails. See pages 177 and 179 for details
- MM #1304, #1305 and #1306 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 802...10-001** — **Straight Pin Header**

802-XX-0__-10-001000

Specify number of pins 04-64

FIG. 2 — **Series 802...20-001** — **Right Angle Pin Header**

802-XX-0__-20-001000

Specify number of pins 02-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 803...10-001** — **Straight Socket**

803-XX-___-10-001000

Specify number of pins 004-100

FIG. 4 — **Series 803...20-001** — **Right Angle Socket**

803-XX-___-20-001000

Specify number of pins 002-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	Au Flash

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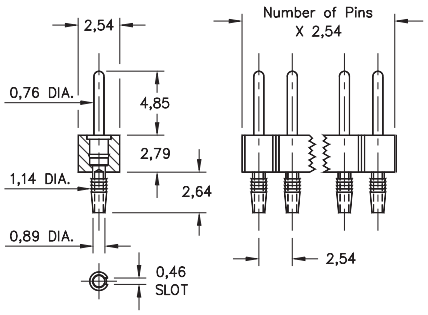


FIG. 1

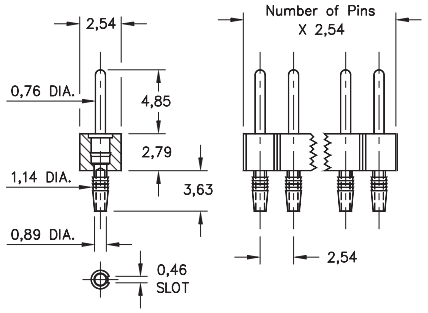


FIG. 2

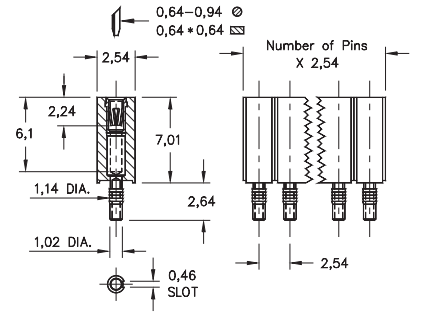


FIG. 3

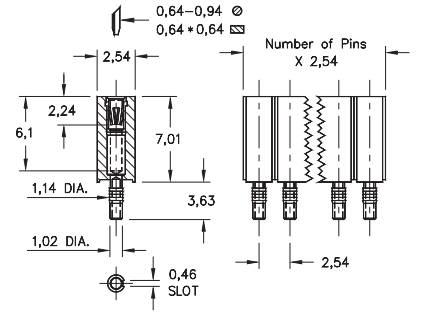
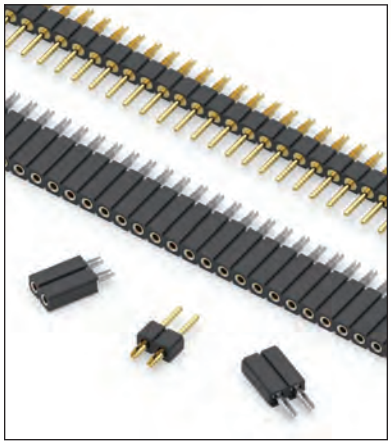


FIG. 4

- The unique compliant tail pins conform to 1,02± 0,76 finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of 1,52 - 2,54 and 2,29 - 3,3. See ordering information for details
- Series 800 pin headers use MM #5601 and #5602 compliant tail pins featuring a 0,76 dia. mating lead. See page 220 for details
- Series 801 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter pins & 0,64 square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1 — Compliant Tail Pin Header for 1,52 - 2,54 Thick Boards

800-XX-0__-61-001000

Specify number of pins → 01-64

FIG. 2 — Compliant Tail Pin Header for 2,29 - 3,3 Thick Boards

800-XX-0__-62-001000

Specify number of pins → 01-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — Compliant Tail Socket for 1,52 - 2,54 Thick Boards

801-XX-0__-61-001000

Specify number of pins → 01-50

FIG. 4 — Compliant Tail Socket for 2,29 - 3,3 Thick Boards

801-XX-0__-62-001000

Specify number of pins → 01-50

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	

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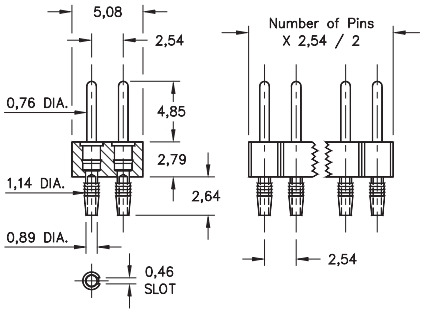


FIG. 1

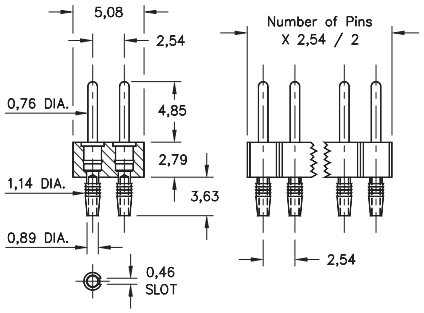


FIG. 2

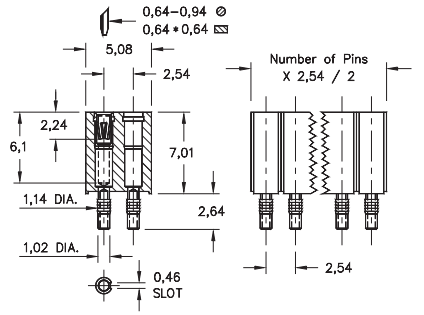


FIG. 3

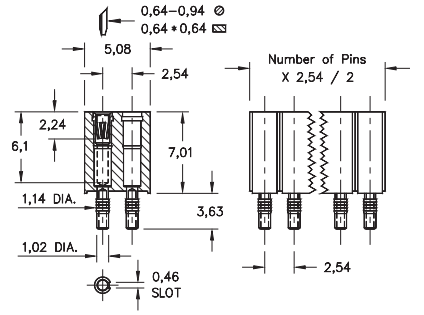
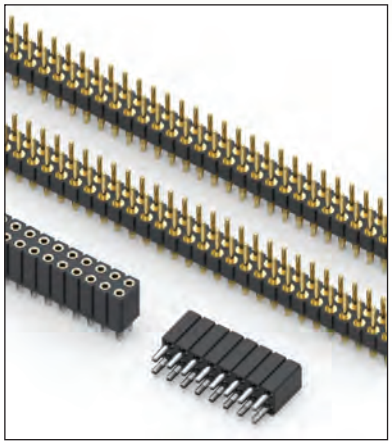


FIG. 4

- The unique compliant tail pins conform to 1,02± 0,76 finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of 1,52 - 2,54 and 2,29 - 3,3. See ordering information for details
- Series 802 pin headers use MM #5601 and #5602 compliant tail pins featuring a 0,76 dia. mating lead. See page 220 for details
- Series 803 sockets with MM #4614 or #4615 pins use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter pins & 0,64 square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	**Compliant Tail Pin Header for 1,52 - 2,54 Thick Boards**
	802-XX-0__-61-001000 **Specify number of pins** ← 04-64
FIG. 2	**Compliant Tail Pin Header for 2,29 - 3,3 Thick Boards**
	802-XX-0__-62-001000 **Specify number of pins** ← 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3	**Compliant Tail Socket for 1,52 - 2,54 Thick Boards**
	803-XX-___-61-001000 **Specify number of pins** ← 004-100
FIG. 4	**Compliant Tail Socket for 2,29 - 3,3 Thick Boards**
	803-XX-___-62-001000 **Specify number of pins** ← 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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SERIES 800 & 802 • 2,54 GRID (0,76 DIA. PINS), SHROUDED STRAIGHT, SURFACE MOUNT & SOLDERLESS PRESS-FIT • SINGLE AND DOUBLE ROW STRIPS

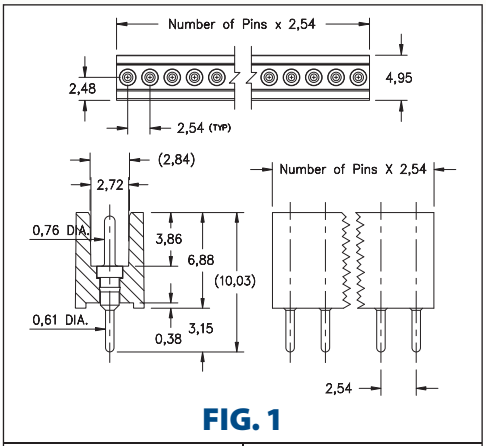


FIG. 1

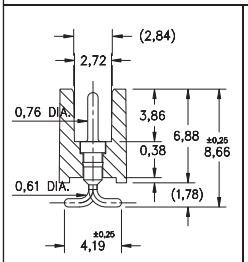


FIG. 2

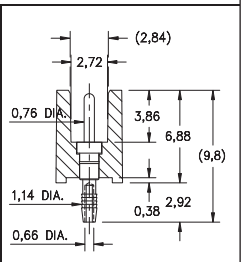


FIG. 3

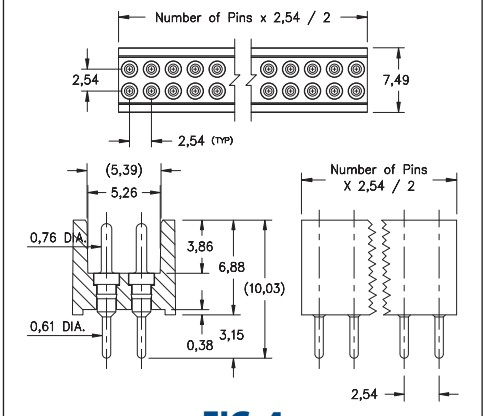


FIG. 4

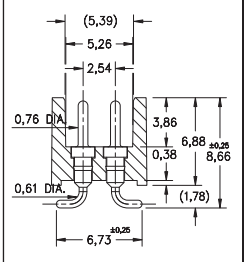


FIG. 5

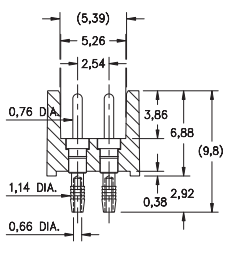
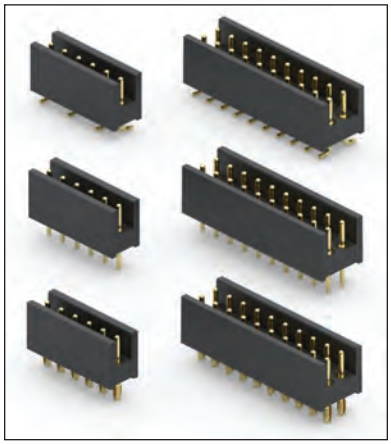


FIG. 6

- Shrouded pin interconnects available with straight Series 800...10-052 and 802...10-052 or surface mount 800...30-052 and 802...30-052 use MM #5016 pins. See page 215 for details
- Shrouded pin interconnects with solderless press-fit Series 800...61-051 and 802...61-051 use MM #5607 pins. See page 213 for details. The unique compliant tail pins conform to 1,02± 0,07 finished hole without stressing inner layers. Patent No. 4,799,904
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 800...10-052**	**Straight Pin Header**
	800-10-0__-10-052000	
	Specify number of pins	01-32
FIG. 2	**Series 800...30-052**	**Surface Mount Pin Header**
	800-10-0__-30-052000	
	Specify number of pins	03-32
FIG. 3	**Series 800...61-051**	**Compliant Tail Pin Header**
	800-10-0__-61-051000	
	Specify number of pins	01-32
FIG. 4	**Series 802...10-052**	**Straight Pin Header**
	802-10-0__-10-052000	
	Specify number of pins	04-64
FIG. 5	**Series 802...30-052**	**Surface Mount Pin Header**
	802-10-0__-30-052000	
	Specify number of pins	04-64
FIG. 6	**Series 802...61-051**	**Compliant Tail Pin Header**
	802-10-0__-61-051000	
	Specify number of pins	04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◇			
Pin Plating	0,25µm Au			

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SERIES 888 • 2MM GRID (0,81 AND 1,12 DIA. PINS), SIGNAL POWER SHROUDED HEADER & SOCKET CONNECTOR

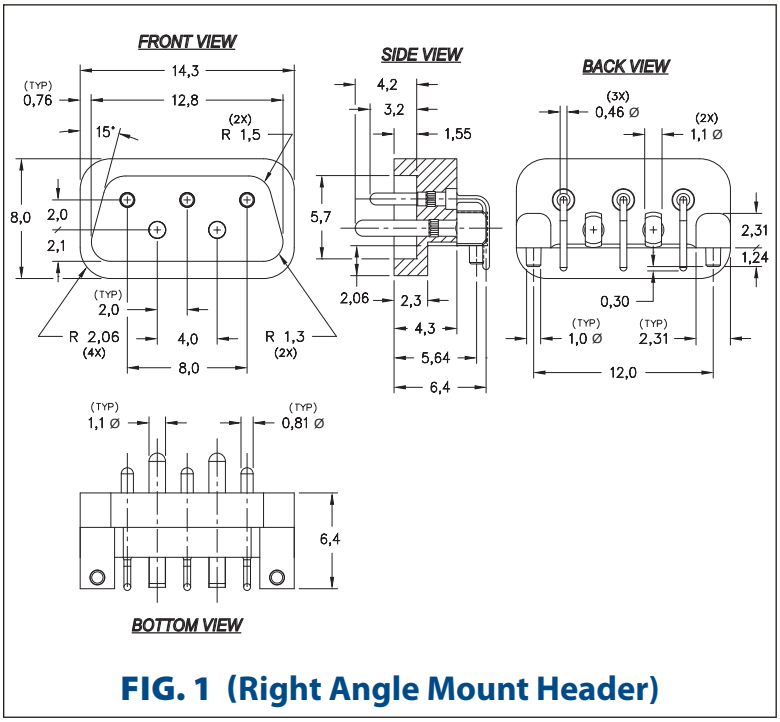


FIG. 1 (Right Angle Mount Header)

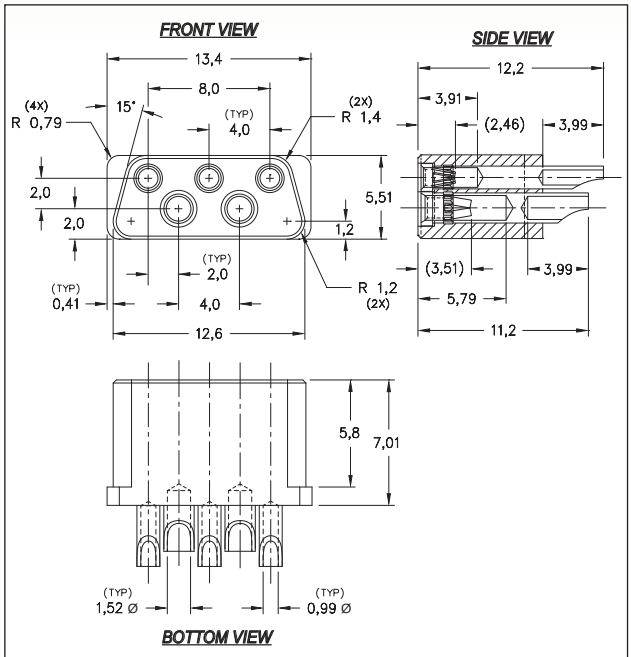
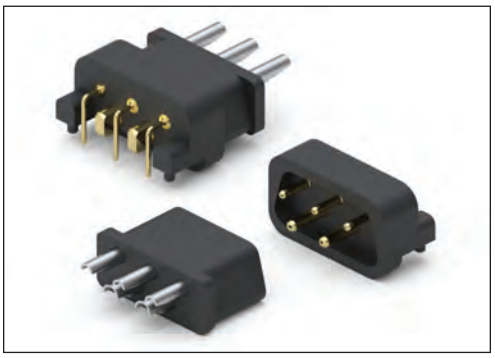


FIG. 2 (Wire Termination Socket)



- Series 888_002 right angle & surface mount P.C.B. headers have 0,81 & 1,12 dia. pins (MM #5065, #5066). See pages 213 and 224 for details
- Series 888_001 mating soldercup sockets use (MM #5070-0 and #5084-0) receptacles for terminating 22 AWG & 18AWG stranded wires. See pages 176 and 185 for details
- Receptacles use Hi-Rel, 6-finger BeCu #16 contacts rated at 4.5 amps and Hi-Rel, 4-finger BeCu #34 contacts rated at 8 amps. See pages 256 and 258 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations and shrouded for accurate alignment

ORDERING INFORMATION

FIG. 1 — **Series 888...002 5 Pin Right Angle Board Mount Header**

888-30-005-20-002000

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		30 ◆		
Pin Plating		0,76 µm Au		

FIG. 2 — **Series 888...001 5 Pin Wire Termination Socket**

888-93-005-00-001000

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=			93 ◆				
Sleeve (Pin)			5,08µm Sn/Pb				
Contact (Clip)			0,76µm Au				

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SERIES 808 & 809 • 2,54 GRID (0,46 DIA. PINS), STRAIGHT, SIGNAL POWER SHROUDED HEADER & SOCKET CONNECTOR

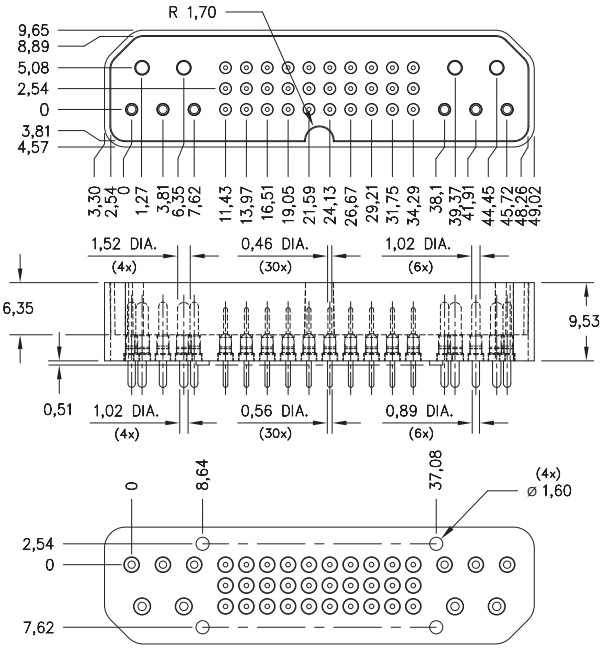

FIG. 1 (Signal Power Header)

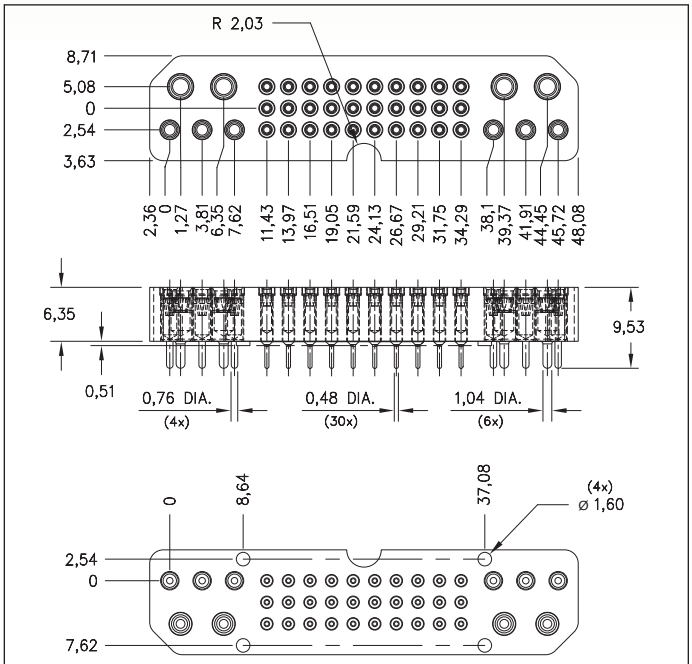

FIG. 2 (Signal Power Socket)

- Series 808 and 809 signal power header & socket have a mated height of 10,54
- Series 808 headers have 0,46 diameter (MM #3503), 1,02 diameter (MM #3502) and 1,52 diameter (MM #3501) solder tails. See pages 213 and 214 for details
- Series 809 sockets use MM #0405-0, #8852-0 and #9324-0 receptacles. See pages 170, 182 and 189 for details
- Receptacles use Hi-Rel, 4-finger BeCu #32 and #34 contacts & Hi-Rel, 6-finger BeCu #23 contacts. See pages 253, 258 and 260 for details
- Insulators are high temperature thermoplastic, suitable for most soldering processes, and feature standoffs to promote solder flow

ORDERING INFORMATION

FIG. 1	Series 808...151	Shrouded Signal Power Header
	808-10-040-10-151000	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2	Series 809...001	Signal Power Socket
	809-43-040-10-001000	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=						43 ◆	
Sleeve (Pin)						5,08µm Sn	
Contact (Clip)						0,76µm Au	

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SERIES 349, 449, 800, 801, 802, 803 • 2,54 GRID (0,76 DIA. PINS), SURFACE MOUNT HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS

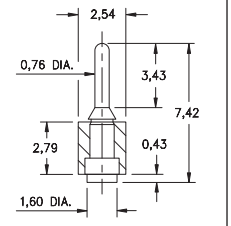


FIG. 1

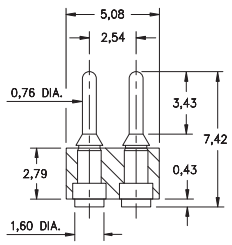


FIG. 2

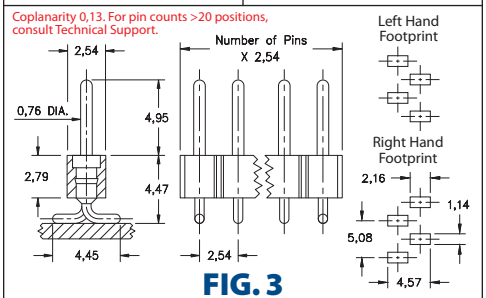


FIG. 3

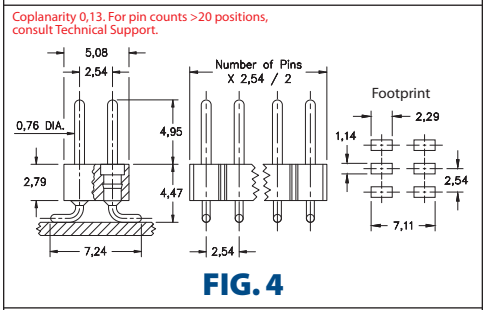


FIG. 4

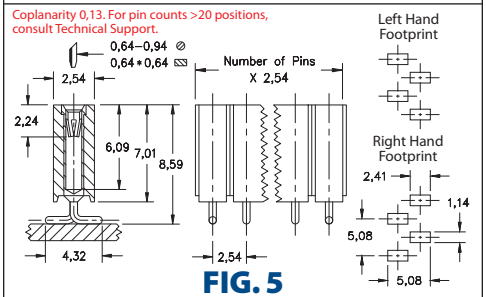


FIG. 5

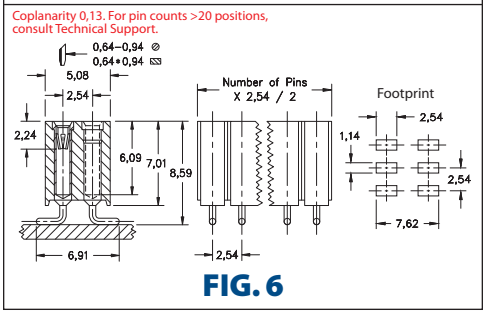
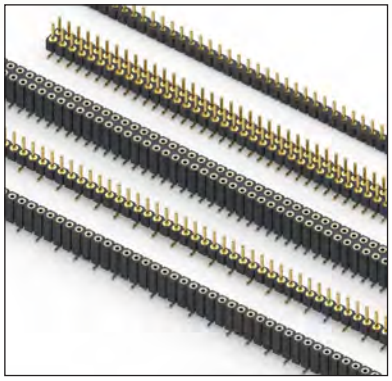


FIG. 6

- Series 349 & 449 use MM #4956-1 pins. See page 218 for details
- Series 800 & 802 use MM #7007 pins. See page 215 for details
- Series 801 & 803 use MM #1304 receptacles and accept pin diameters from 0,64 - 0,94 and 0,64 square pins. See page 177 for details
- Receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 349...560**	**Single Row Surface Mount Header**
	349-10-1_ _-00-560000	
	Specify number of pins	02-64
FIG. 2	**Series 449...560**	**Double Row Surface Mount Header**
	449-10-2_ _-00-560000	
	Specify number of pins	04-64
FIG. 3	**Series 800...001**	**Single Row Surface Mount Header**
	800-10-0_ _-30-001000	
	Specify number of pins	03-64
FIG. 4	**Series 802...001**	**Double Row Surface Mount Header**
	802-10-0_ _-30-001000	
	Specify number of pins	04-72

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 5	**Series 801...001**	**Single Row Surface Mount Socket**
	801-43-0_ _-30-001000	
	Specify number of pins	03-50
FIG. 6	**Series 803...001**	**Double Row Surface Mount Socket**
	803-XX-_ _ _-30-001000	
	Specify number of pins	004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,76µm Au			0,76µm Au	

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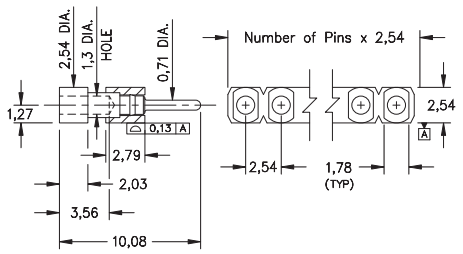
SERIES 800, 801, 830• 2,54 GRID (0,76 DIA. PINS), SURFACE MOUNT HEADERS AND SOCKETS • SINGLE ROW STRIPS

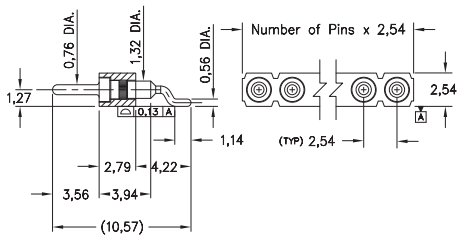
Mates with Series 801...002 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 1

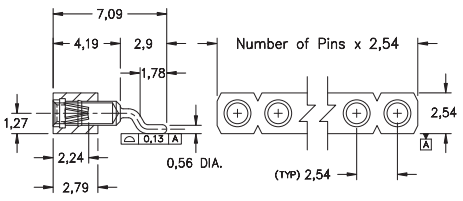
Mates with Series 801...002 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 2

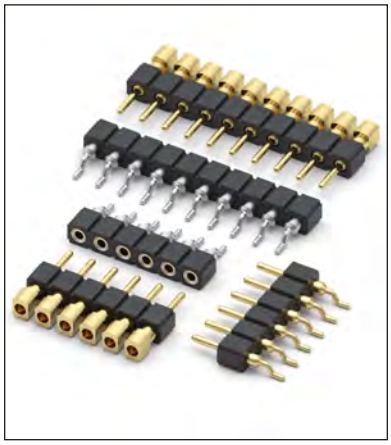
Mates with Series 800...002 and 830...028 Surface Mount Header (See Fig. 1 & 2)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 3

- Series 800 horizontal surface mount headers are availble with 0,71 dia. pluggable pins (MM #1502). Series 830 horizontal surface mount z-bend headers use MM #3028 pins. See page 224 for details
- Series 801 horizontal surface mount Z-Bend sockets uses MM #1303 receptacles that accept pin diameters from 0,64 - 0,94 and 0,64 square leads. See pages 180 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- Ideal for daisy chaining parallel boards



ORDERING INFORMATION

FIG. 1 — **Series 800...002 0,71 Dia. Surface Mount Header**

800-10-0__-40-002000

Specify number of pins 02-10

FIG. 2 — **Series 830...028 0,76 Dia. Surface Mount Z-Bend Header**

830-XX-0__-40-028000

Specify number of pins 02-10

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆		40 ◆	
Pin Plating	0,25µm Au		5,08µm Sn	

FIG. 3 — **Series 801...002 0,71 Dia. Surface Mount Z-Bend Socket**

801-XX-0__-40-002000

Specify number of pins 02-10

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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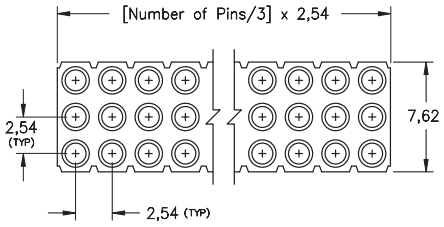
SERIES 804 & 805 • 2,54 GRID (0,76 DIA. PINS), HEADERS AND SOCKETS • TRIPLE ROW



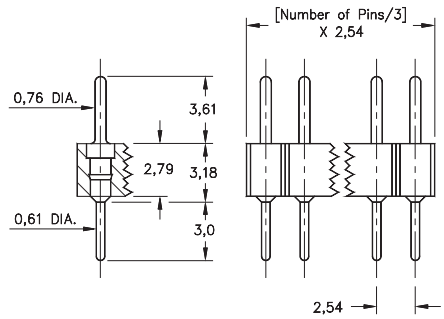
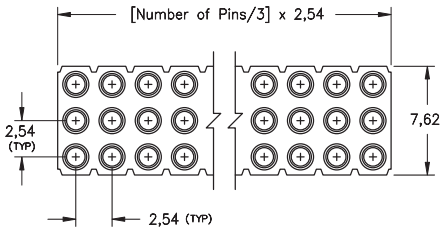


FIG. 1



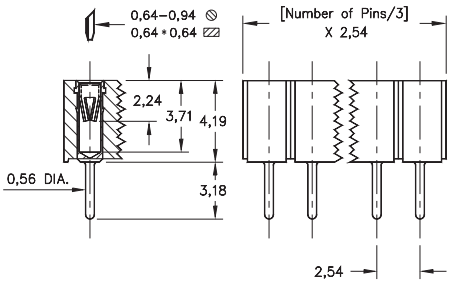
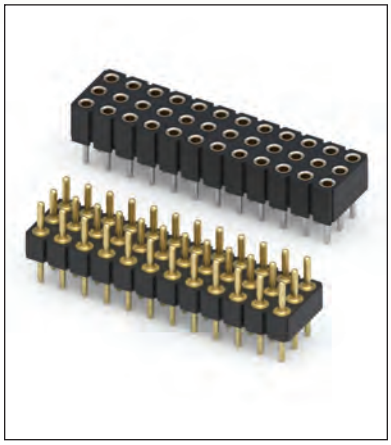


FIG. 2

- Series 804 triple row 2,54 grid headers uses MM #5016 pins. See page 215 for details
- Series 805 triple row 2,54 grid sockets uses MM #1303 pins. See page 180 for details
- Series 805 triple row 2,54 grid sockets uses Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 804...002** — **Straight Pin Header**

804-10-0__-10-002000

Specify number of pins 09-96

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2 — **Series 805...012** — **Straight Pin Socket**

805-43-0__-10-012000

Specify number of pins 09-96

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=						43 ◆	
Sleeve (Pin)						5,08µm Sn	
Contact (Clip)						0,76µm Au	

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SERIES 800, 801, 802, 803 • 2,54 GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

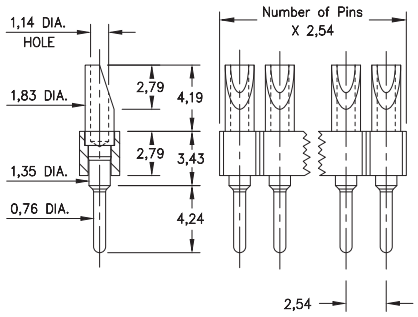


FIG. 1

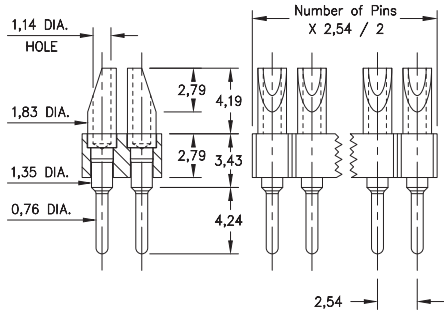


FIG. 2

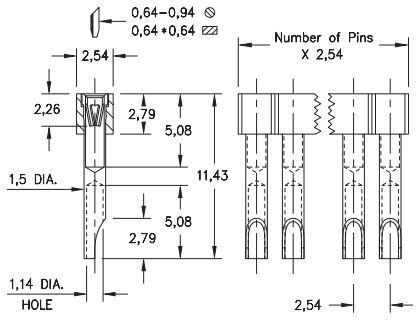


FIG. 3

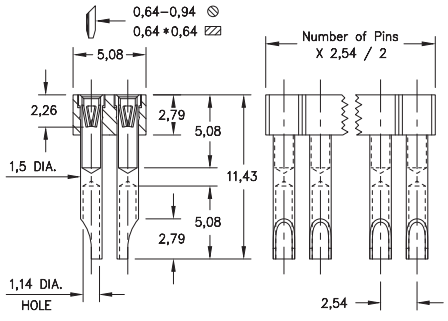


FIG. 4

- Series 800 and 802 use MM #1107 pins. See page 218 for details
- Series 801 and 803 use MM #1134 pin receptacles and accept pin diameters from 0,64 - 0,94 and 0,64 square pins. See page 177 for details
- Series 801 and 803 receptacles use Hi-Rel, 4-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Solder cups are pre-aligned and accept up to 20 AWG wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 800...007**	**Single Row Solder Cup / Solder Tail**
	800-XX-0__-10-007000	
	Specify number of pins ← 02-64	
FIG. 2	**Series 802...007**	**Double Row Solder Cup / Solder Tail**
	802-XX-0__-10-007000	
	Specify number of pins ← 02-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆		40 ◆	
Pin Plating	0,25µm Au		5,08µm Sn	

FIG. 3	**Series 801...007**	**Single Row Solder Cup Sockets**
	801-13-0__-10-007000	
	Specify number of pins ← 02-64	
FIG. 4	**Series 803...007**	**Double Row Solder Cup Sockets**
	803-13-0__-10-007000	
	Specify number of pins ← 02-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆						
Sleeve (Pin)	0,25µm Au						
Contact (Clip)	0,76µm Au						

SERIES 800, 801, 802, 803 • 2,54 GRID (1,02 DIA. PINS), HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

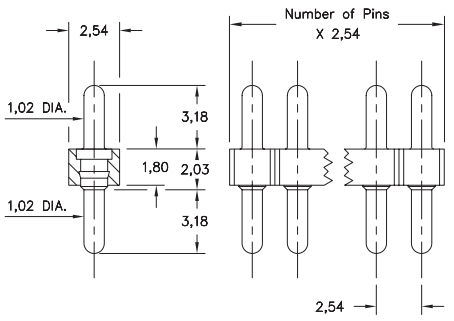


FIG. 1

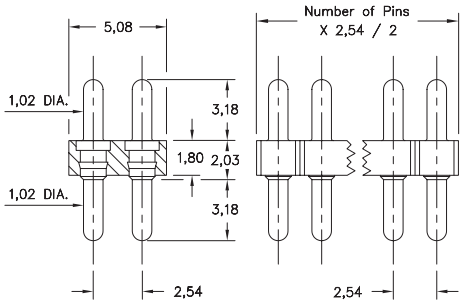


FIG. 2

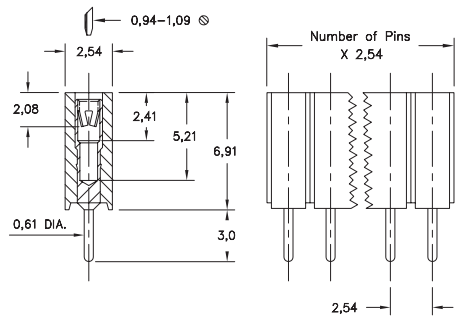


FIG. 3

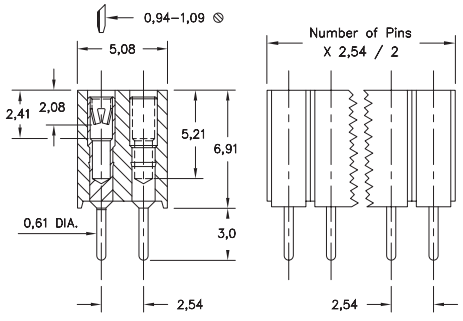
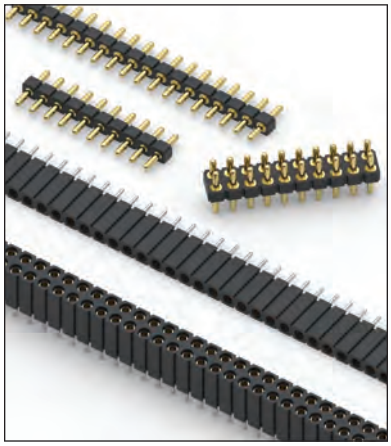


FIG. 4

- Series 800 and 802 single and double row interconnects feature sturdy 1,02 dia. leads (MM #3077) and low profile (1,80 thick) insulator. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1313 receptacles. See page 181 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #18 contact rated at 8 amps. Receptacles accept 0,94 - 1,09 diameter pins. See page 257 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 800...10-004** — **Single Row Pin Header**

800-XX-0_ _-10-004000

Specify number of pins ← 01-50

FIG. 2 — **Series 802...10-004** — **Double Row Pin Header**

802-XX-_ _ _-10-004000

Specify number of pins ← 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3 — **Series 801...10-004** — **Single Row Socket**

801-XX-0_ _-10-004000

Specify number of pins ← 01-50

FIG. 4 — **Series 803...10-004** — **Double Row Socket**

803-XX-_ _ _-10-004000

Specify number of pins ← 004-100

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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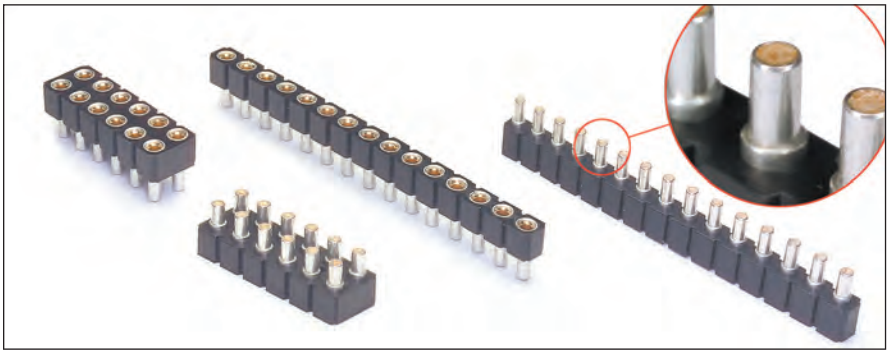
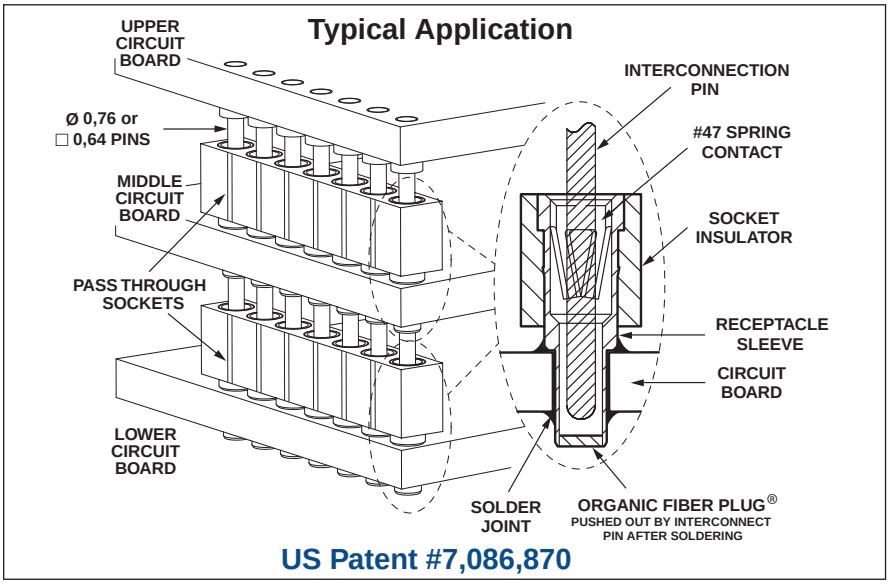
SERIES 834 & 835 • 2,54 GRID OFP® PASS-THROUGH SOCKETS
Ø0,76 & □0,64 PINS • SINGLE AND DOUBLE ROW STRIPS

- 834/835 Series Pass-Through Sockets have a low 3,30 profile and will accept Ø 0,76 round pin, as well as industry standard 0,64 square pin headers.
- They are typically used to interconnect two or more parallel circuit boards.
- Sockets are designed for hand, wave or reflow* soldering. The high temperature insulator is compatible with all solder processes.
- Unique ORGANIC FIBRE PLUG® barriers prevent solder, paste or flux from contaminating the internal spring contacts. After soldering, the OFP® barriers are pushed out of the socket when the mating header is inserted.
- Mill-Max sockets use a receptacle consisting of a precision-machined brass sleeve with a press-fit beryllium copper "multi-finger" spring contact.
- Recommended mounting holes are Ø1,17 ±0,08 PTH (1,2 mm drilled prior to plating).

**Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The pass-through socket is placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked up inside the contact during assembly.*





US Patent #7,086,870

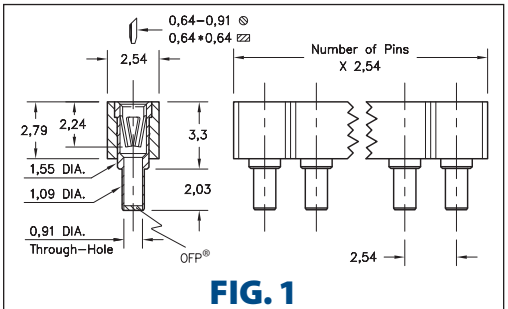


FIG. 1

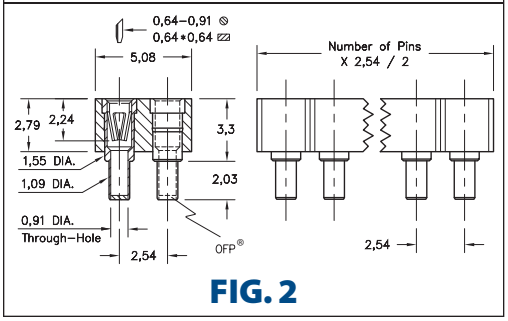


FIG. 2

ORDERING INFORMATION

FIG. 1	Series 834...001	Single Row OFP® Pass-Through Socket
	834-XX-0__-10-001000	
	Specify number of pins	01-64
FIG. 2	Series 835...001	Double Row OFP® Pass-Through Socket
	835-XX-0__-10-001000	
	Specify number of pins	04-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=			93			43 ◆	47 ◆
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn
Contact (Clip)			0,76µm Au			0,76µm Au	Au Flash

SERIES 800 & 801 • 5,08 GRID (0,76 DIA. PINS), STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

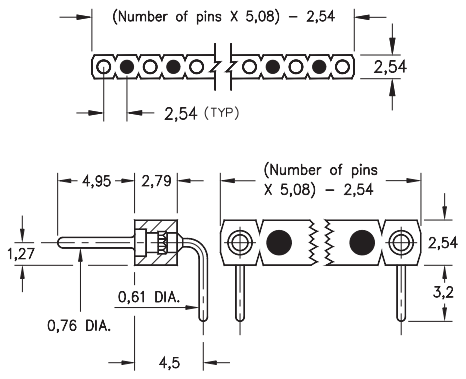


FIG. 1

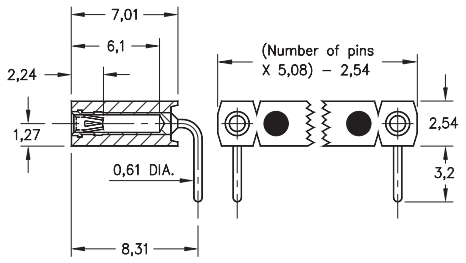


FIG. 2

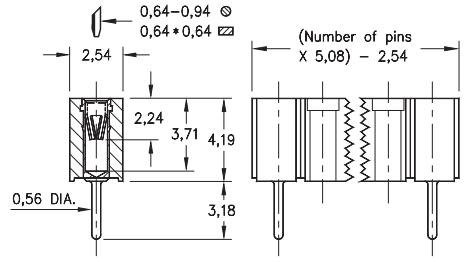


FIG. 3

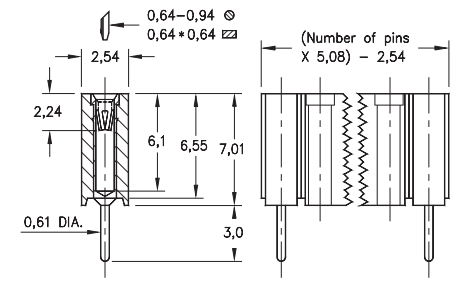
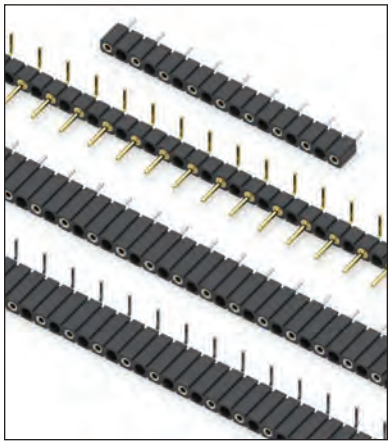


FIG. 4

- Series 800 selectively loaded headers uses MM #5005 pins. See page 215 for details
- Series 801 selectively loaded sockets use MM #1303, #1304 and #1305 pins. See pages 177, 179 & 180 for details
- Series 801 selectively loaded sockets use Hi-Rel, 6-finger BeCu #47 contact rated at 3 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1 — **Series 800...20-201** — **Right Angle Header**

800-10-0__-20-201000

Specify number of pins ← 02-32

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

FIG. 2 — **Series 801...20-201** — **Right Angle Socket**

801-XX-0__-20-201000

Specify number of pins ← 02-25

FIG. 3 — **Series 801...10-212** — **Straight Socket**

801-43-0__-10-212000

Specify number of pins ← 02-18

FIG. 4 — **Series 801...10-201** — **Straight Socket**

801-43-0__-10-201000

Specify number of pins ← 02-25

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=					41 ◆	43 ◆	
Sleeve (Pin)					5,08µm Sn	5,08µm Sn	
Contact (Clip)					0,25µm Au	0,76µm Au	

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SERIES 310, 311, 315 • 2,54 GRID SOLDER TAIL • SINGLE ROW STRIPS

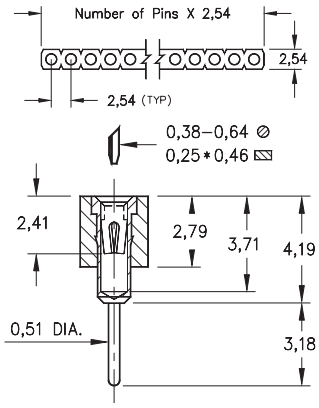

FIG. 1

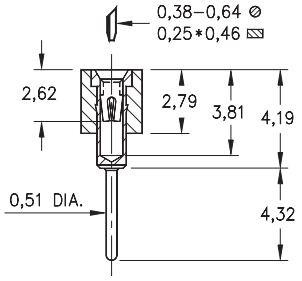

FIG. 2

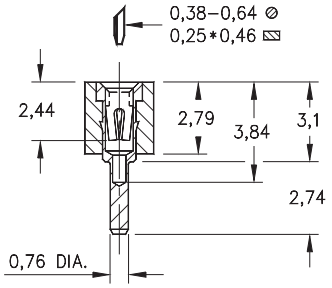

FIG. 3

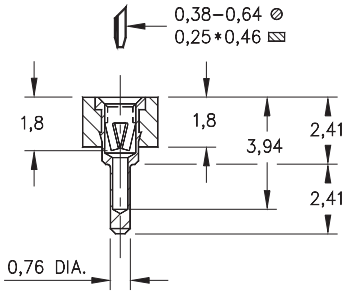

FIG. 4

- SIP sockets accept 0,38 - 0,64 diameter pins and standard IC leads
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 310...001**	**Standard Solder Tail**
	310-XX-1__-41-001000 **Specify number of pins** ← 01-64	
FIG. 2	**Series 311...001**	**Long Solder Tail**
	311-XX-1__-41-001000 ★ **Specify number of pins** ← 01-64	
FIG. 3	**Series 315...001**	**Very Low Profile**
	315-XX-1__-41-001000 ★ **Specify number of pins** ← 01-64	
FIG. 4	**Series 315...003**	**Ultra Low Profile**
	315-XX-1__-41-003000 ★ **Specify number of pins** ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

★ 41 & 91 Platings Non-Standard

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SERIES 410, 411, 415 • 2,54 GRID SOLDER TAIL • DOUBLE ROW STRIPS

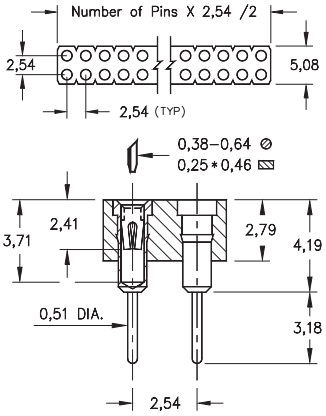


FIG. 1

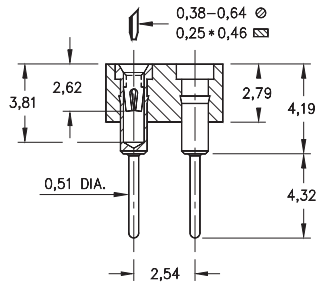


FIG. 2

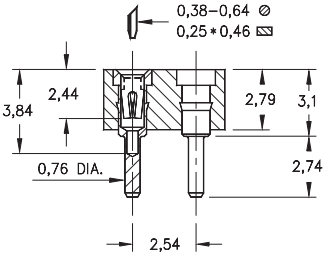


FIG. 3

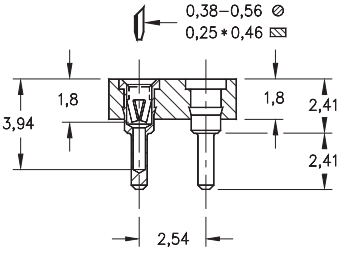
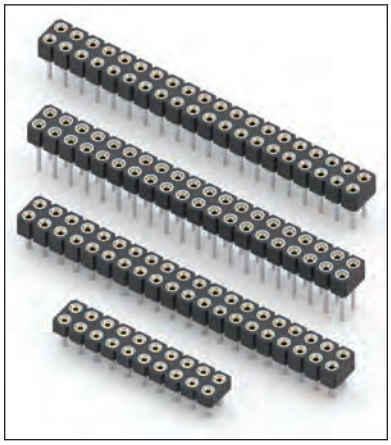


FIG. 4

- Series 41X double row strip sockets are on 2,54 grid
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 410...001**	**Standard Solder Tail**
	410-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 2	**Series 411...001**	**Long Solder Tail**
	411-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 3	**Series 415...001**	**Very Low Profile**
	415-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 4	**Series 415...003**	**Ultra Low Profile**
	415-XX-2__-41-003000	
	Specify number of pins ← 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	41 ◆	43 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

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SERIES 316 • 2,54 GRID ELEVATED • SINGLE ROW STRIPS

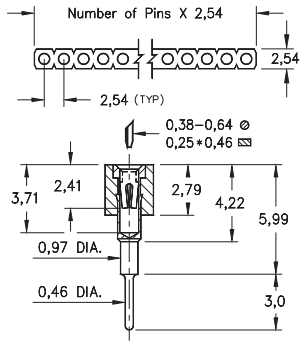

FIG. 1

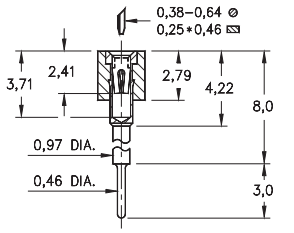

FIG. 2

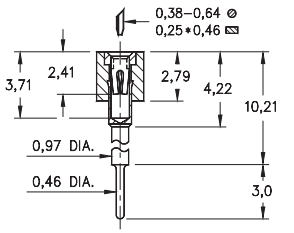

FIG. 3

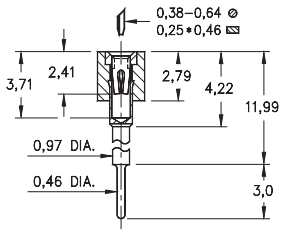

FIG. 4

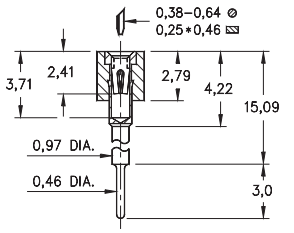

FIG. 5

- Elevated socket strips are available in 5 different heights:

  316...006 uses pin # 0153-1
  316...003 uses pin # 0153-2
  316...007 uses pin # 0153-3
  316...008 uses pin # 0153-4
  316...001 uses pin # 0153-5
  See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 316...006**	**Standoff Height = 5,99**
	316-XX-1__-41-006000	
	Specify number of pins ← 01-64	
FIG. 2	**Series 316...003**	**Standoff Height = 8,0**
	316-XX-1__-41-003000	
	Specify number of pins ← 01-64	
FIG. 3	**Series 316...007**	**Standoff Height = 10,21**
	316-XX-1__-41-007000	
	Specify number of pins ← 01-64	
FIG. 4	**Series 316...008**	**Standoff Height = 11,99**
	316-XX-1__-41-008000	
	Specify number of pins ← 01-64	
FIG. 5	**Series 316...001**	**Standoff Height = 15,09**
	316-XX-1__-41-001000	
	Specify number of pins ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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SERIES 416 • 2,54 GRID ELEVATED • DOUBLE ROW STRIPS

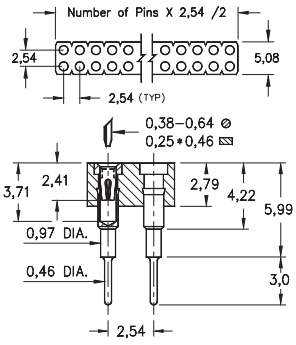


FIG. 1

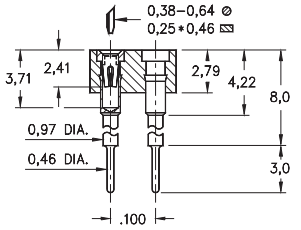


FIG. 2

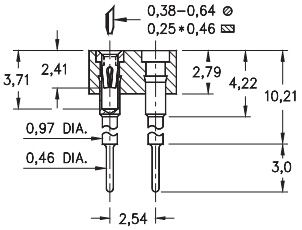


FIG. 3

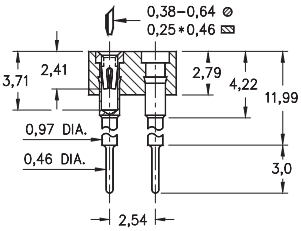


FIG. 4

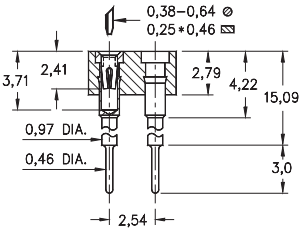


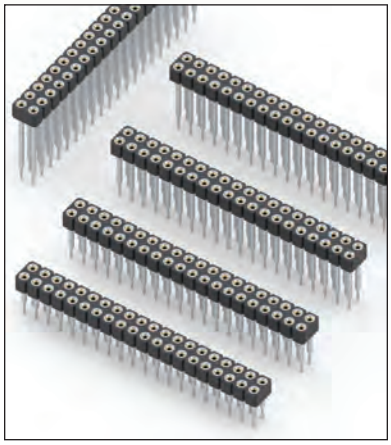
FIG. 5

- Elevated socket strips are available in 5 different heights:

  416...006 uses pin # 0153-1
  416...003 uses pin # 0153-2
  416...007 uses pin # 0153-3
  416...008 uses pin # 0153-4
  416...001 uses pin # 0153-5
  See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 416...006**	**Standoff Height = 5,99**
	416-XX-2__-41-006000	
	Specify number of pins ↑ 04-64	
FIG. 2	**Series 416...003**	**Standoff Height = 8,0**
	416-XX-2__-41-003000	
	Specify number of pins ↑ 04-64	
FIG. 3	**Series 416...007**	**Standoff Height = 10,21**
	416-XX-2__-41-007000	
	Specify number of pins ↑ 04-64	
FIG. 4	**Series 416...008**	**Standoff Height = 11,99**
	416-XX-2__-41-008000	
	Specify number of pins ↑ 04-64	
FIG. 5	**Series 416...001**	**Standoff Height = 15,09**
	416-XX-2__-41-001000	
	Specify number of pins ↑ 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 321, 322, 323, 324 • 2,54 GRID WRAPOST • SINGLE ROW STRIPS

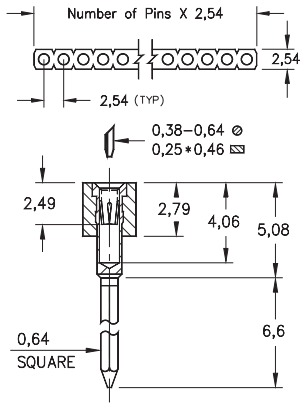


FIG. 1

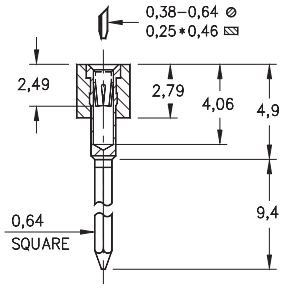


FIG. 2

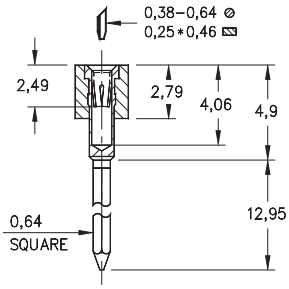


FIG. 3

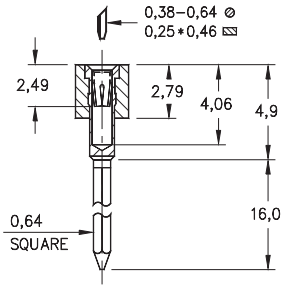


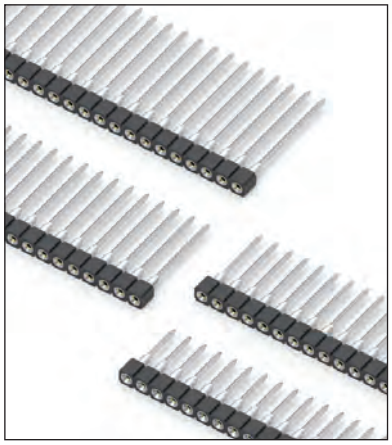
FIG. 4

- Wraposts available in 1 - 4 levels using MM pin numbers:

  1-Level uses pin # 0040-1
  2-Level uses pin # 0089-2
  3-Level uses pin # 0088-3
  4-Level uses pin # 0086-4
  See page 198 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 321...001**	**1 Level Wrapost**
	321-13-1__-41-001000 **Specify number of pins** ← 01-64	
FIG. 2	**Series 322...001**	**2 Level Wrapost**
	322-XX-1__-41-001000 **Specify number of pins** ← 01-64	
FIG. 3	**Series 323...001**	**3 Level Wrapost**
	323-XX-1__-41-001000 **Specify number of pins** ← 01-64	
FIG. 4	**Series 324...002**	**4 Level Wrapost**
	324-XX-1__-41-002000 **Specify number of pins** ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	41 ◆	43 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

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SERIES 421, 422, 423, 424 • 2,54 GRID WRAPOST • DOUBLE ROW STRIPS

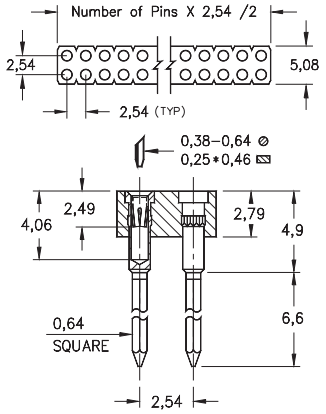


FIG. 1

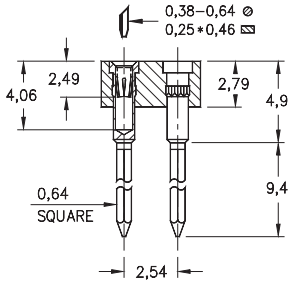


FIG. 2

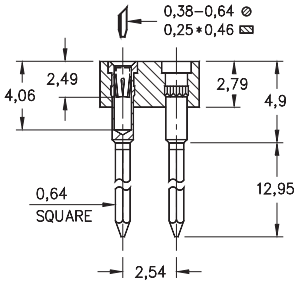


FIG. 3

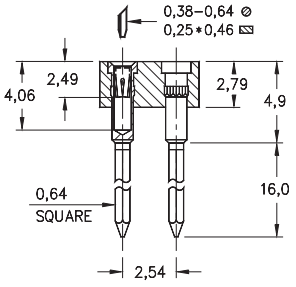


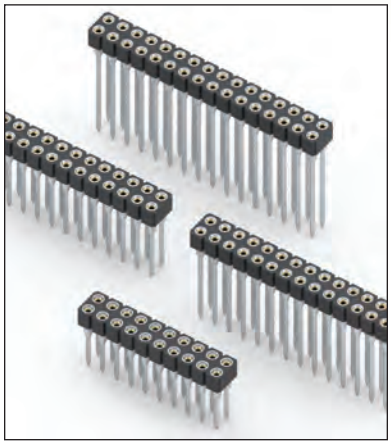
FIG. 4

- Wrapost double row strip sockets are available with 1 - 4 level wraposts:

  1-Level uses pin # 0040-1
  2-Level uses pin # 0089-2
  3-Level uses pin # 0088-3
  4-Level uses pin # 0086-4
  See page 198 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 421...001**	**1 Level Wrapost**
	421-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 2	**Series 422...001**	**2 Level Wrapost**
	422-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 3	**Series 423...001**	**3 Level Wrapost**
	423-XX-2__-41-001000	
	Specify number of pins ← 04-64	
FIG. 4	**Series 424...002**	**4 Level Wrapost**
	424-XX-2__-41-002000	
	Specify number of pins ← 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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SERIES 326 • 2,54 GRID WRAPOST WITH SOLDER TAIL • SINGLE ROW STRIPS

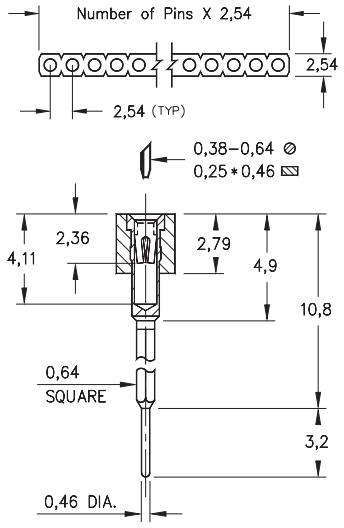

FIG. 1

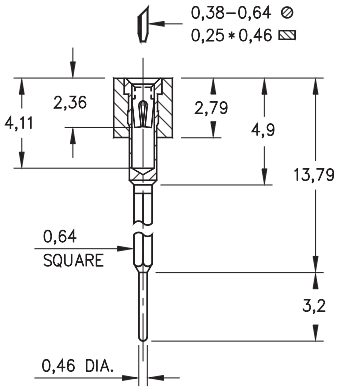

FIG. 2

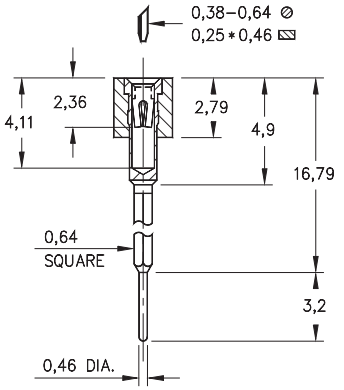

FIG. 3

- Wrapost / Solder Tail combinations are available in 3 lengths using MM pin numbers:

  326...001 uses pin # 2601
  326...002 uses pin # 2602
  326...003 uses pin # 2603
  See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 326...001**	**1 Level Wrapost**
	326-XX-1__-41-001000 **Specify number of pins** ← 01-64	
FIG. 2	**Series 326...002**	**2 Level Wrapost**
	326-XX-1__-41-002000 **Specify number of pins** ← 01-64	
FIG. 3	**Series 326...003**	**3 Level Wrapost**
	326-XX-1__-41-003000 **Specify number of pins** ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 426 • 2,54 GRID WRAPOST WITH SOLDER TAIL • DOUBLE ROW STRIPS

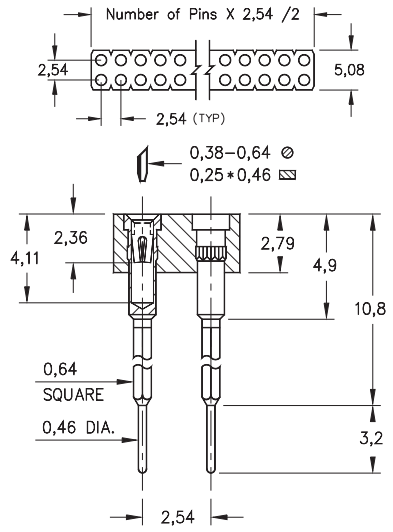

FIG. 1

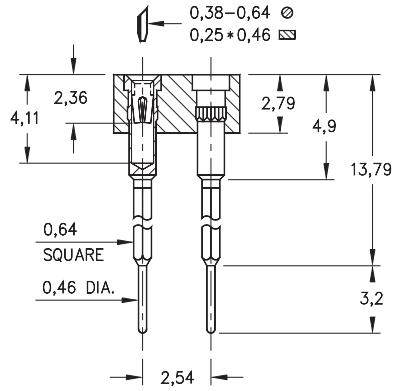

FIG. 2

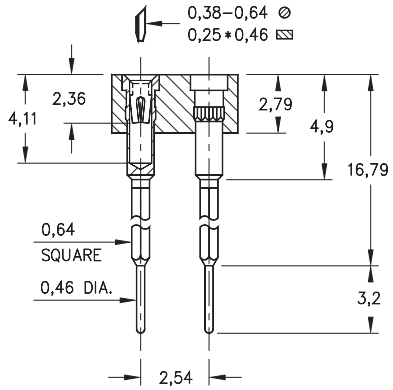

FIG. 3

- Wrapost / Solder Tail combination for interconnect purposes are available in 3 lengths using pin numbers:

  426...001 uses pin # 2601
  426...002 uses pin # 2602
  426...003 uses pin # 2603
  See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 426...001**	**1 Level Wrapost**
	426-XX-2__-41-001000 **Specify number of pins** ← 04-64	
FIG. 2	**Series 426...002**	**2 Level Wrapost**
	426-XX-2__-41-002000 **Specify number of pins** ← 04-64	
FIG. 3	**Series 426...003**	**3 Level Wrapost**
	426-XX-2__-41-003000 **Specify number of pins** ← 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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SERIES 304, 346 • 2,54 GRID SOLDERLESS PRESS-FIT • SINGLE ROW STRIPS

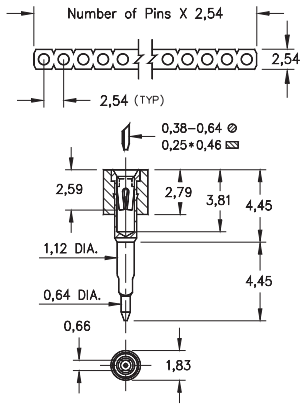

FIG. 1

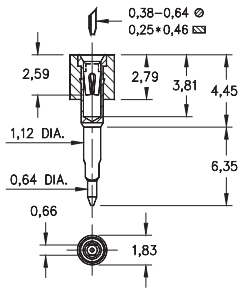

FIG. 2

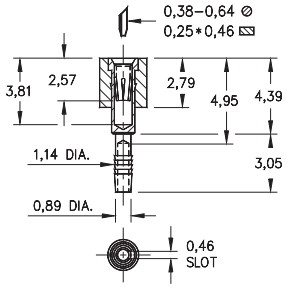

FIG. 3

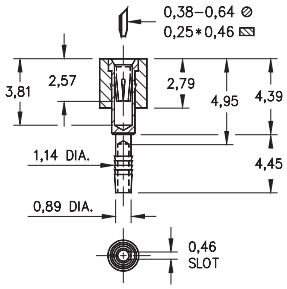

FIG. 4

- Unique compliant tail pins conform to the plated through-hole without stressing the inner layers of a multilayer board
- Recommended plated through-hole for 304 series: 0,91 - 1,04 use a 1,1mm drill prior to plating. Using MM #0477 & #0478 pins. See page 162 for details
- For 346 series: 1,02 ± 0,07 finished plated through-hole. Using MM #4612 & #4613 pins. See page 162 for details. Patent No. 4,799,904
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic

ORDERING INFORMATION

FIG. 1	**Series 304...770**	**Solderless Press-Fit**
	For 1,57 Thick Boards	
	304-XX-1__-41-770000	
	Specify number of pins ↑ 01-64	
FIG. 2	**Series 304...780**	**Solderless Press-Fit**
	For 3,18 Thick Boards	
	304-XX-1__-41-780000	
	Specify number of pins ↑ 01-64	
Mill-Max recommends plating Code 13 for Series 304...770 and 304...780		
FIG. 3	**Series 346...012**	**Compliant Solderless Press-Fit**
	For 1,52 - 2,54 Thick Boards	
	346-XX-1__-41-012000	
	Specify number of pins ↑ 01-64	
FIG. 4	**Series 346...013**	**Compliant Solderless Press-Fit**
	For 2,29 - 3,3 Thick Boards	
	346-XX-1__-41-013000	
	Specify number of pins ↑ 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

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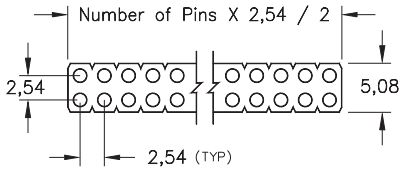
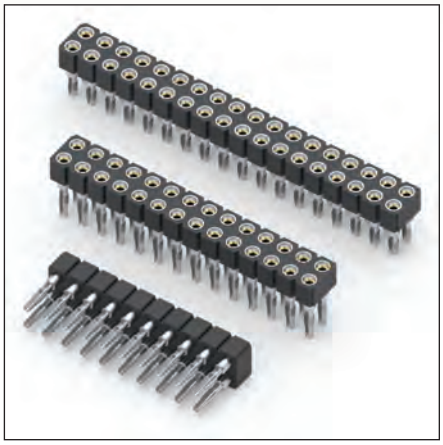
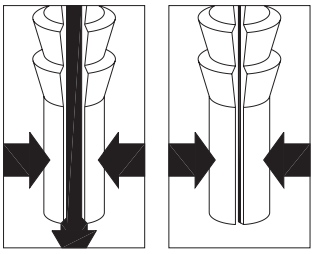
SERIES 446 • 2,54 GRID COMPLIANT TAIL • DOUBLE ROW STRIPS



- Compliant tail solderless press-fit: MM #4612 or #4613 pins. Use series 446...012 for 1,52 - 3,05 thick boards and series 446...013 for 2,29 - 3,30 thick boards. See page 162 for details
- Compliant tail receptacles can be inserted and removed without any degradation of the plated through-hole
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic





APPLICATION OF COMPLIANT TAIL PINS

Mill-Max's patented* compliant tail features precision-machined pins that are hollow and slotted to conform to a 1,02 ± 0,08 diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.
*Patent No. 4,799,904.

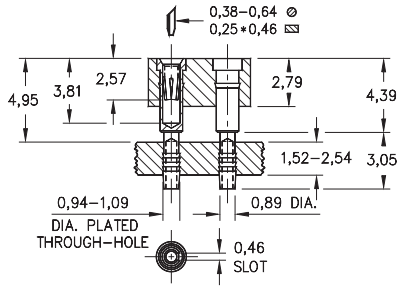


FIG. 1

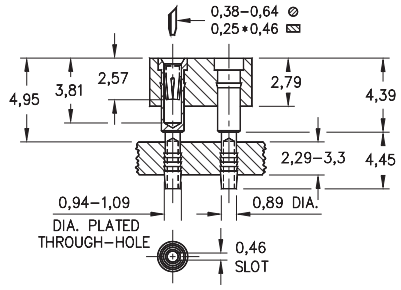


FIG. 2

ORDERING INFORMATION

FIG. 1	**Series 446...012**	**Compliant Tail Socket**
	446-XX-2__-41-012000	
	Specify number of pins ←	04-64
FIG. 2	**Series 446...013**	**Compliant Tail Socket**
	446-XX-2__-41-013000	
	Specify number of pins ←	04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	13 ◆		93	99		43 ◆	44 ◆
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au		0,76µm Au	2,54µm Sn/Pb		0,76µm Au	2,54µm Sn

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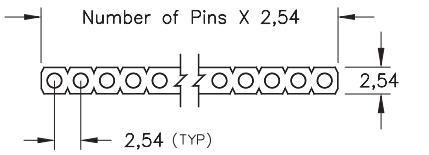
SERIES 712 • 2,54 GRID CARRIER WITH SOLDER TAIL • SINGLE AND DOUBLE ROW STRIPS



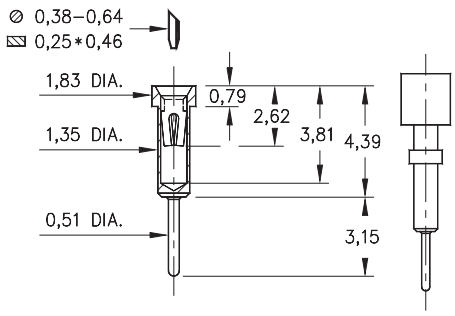
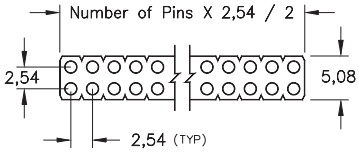


FIG. 1



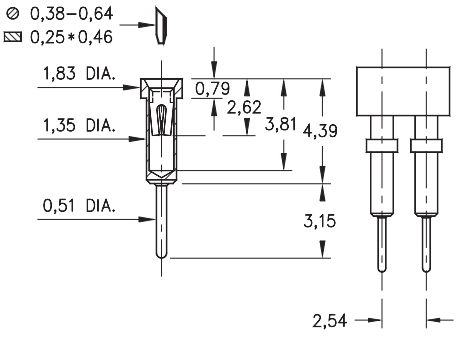


FIG. 2

- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes
- Series 712 use MM #0255 pins. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Single Row (0,71 or 1,4 min. mounting holes)**
	712-XX-1__-41-001000 **Specify number of pins** ← 01-64
FIG. 2	**Double Row (0,71 or 1,4 min. mounting holes)**
	712-XX-2__-41-001000 **Specify number of pins** ← 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	11◆	13◆	91	93	41◆	43◆	
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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SERIES 714...00X • 2,54 GRID LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

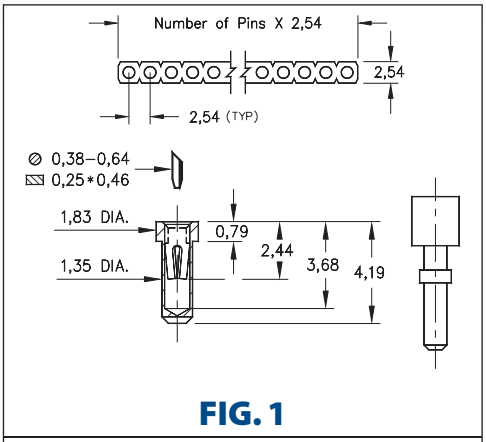


FIG. 1

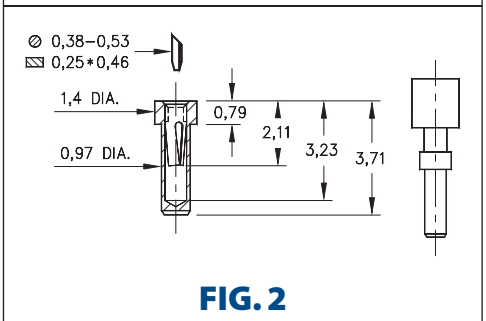


FIG. 2

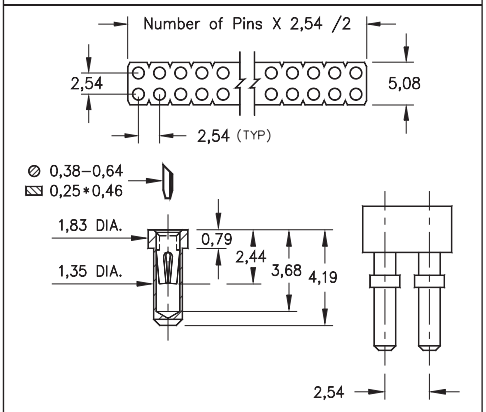


FIG. 3

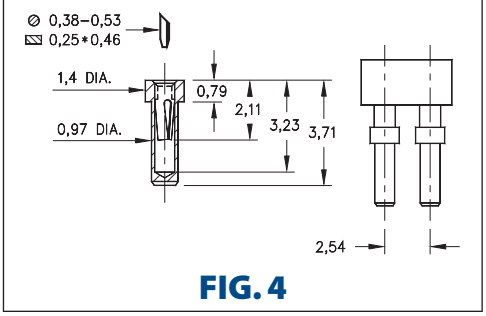
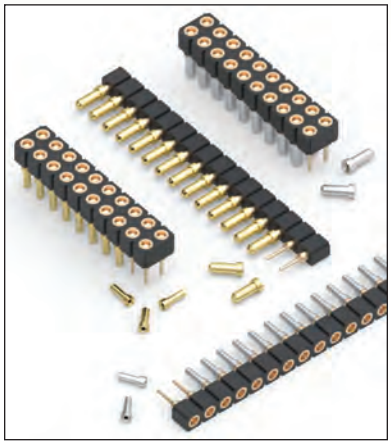


FIG. 4

- Low profile receptacles sit 0,79 above the board
- Series 714 use MM #1401 and MM #1407 pin receptacles. See pages 157 and 170 for details
- Hi-Rel, 4-finger BeCu #30 contact is used in the #1401 receptacle and a BeCu #11 contact is used in the #1407. Both contacts are rated at 3 amps. See pages 251 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Single Row (1,4 min. mounting hole)** 714-XX-1__-41-001000 **Specify number of pins** ← 01-64
FIG. 2	**Single Row (0,99 min. mounting hole)** 714-XX-1__-31-007000 **Specify number of pins** ← 01-64
FIG. 3	**Double Row (1,4 min. mounting hole)** 714-XX-2__-41-001000 **Specify number of pins** ← 04-64
FIG. 4	**Double Row (0,99 min. mounting hole)** 714-XX-2__-31-007000 **Specify number of pins** ← 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 714...01X • 2,54 GRID ULTRA LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

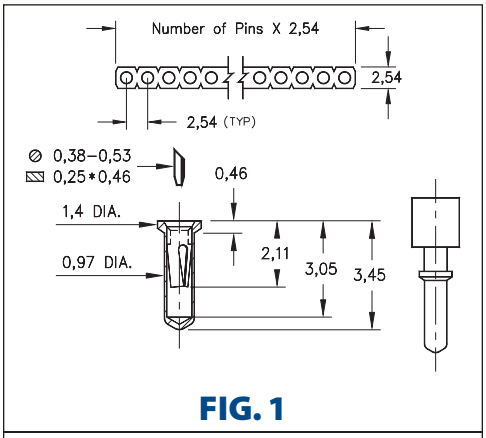


FIG. 1

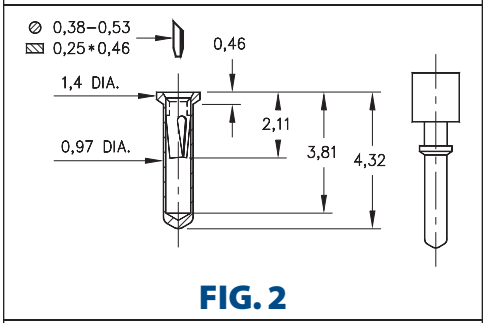


FIG. 2

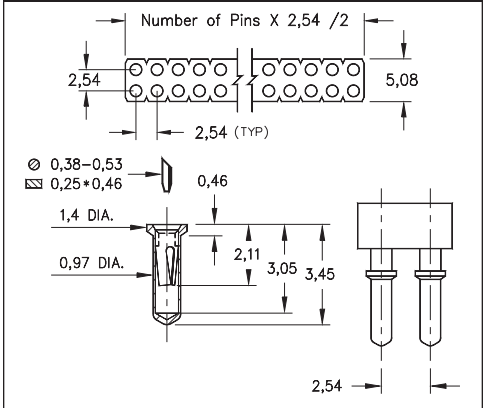


FIG. 3

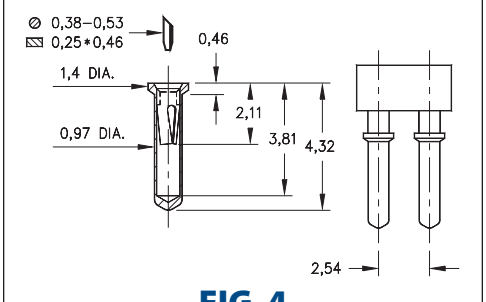
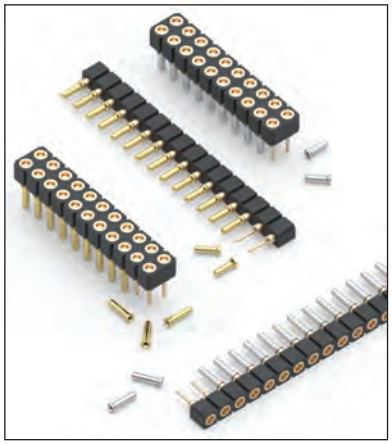


FIG. 4

- Ultra low profile receptacles sit 0,46 above the board
- Series 714 use MM #0552-1 and MM #0552-2 pin receptacles. See page 158 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Single Row (0,99 min. mounting hole)** 714-XX-1__-31-012000 **Specify number of pins** ← 01-64
FIG. 2	**Single Row (0,99 min. mounting hole)** 714-XX-1__-31-018000 **Specify number of pins** ← 01-64
FIG. 3	**Double Row (0,99 min. mounting hole)** 714-XX-2__-31-012000 **Specify number of pins** ← 04-64
FIG. 4	**Double Row (0,99 min. mounting hole)** 714-XX-2__-31-018000 **Specify number of pins** ← 04-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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SERIES 335, 364, 435, 464 • 2,54 GRID (0,46 DIA. PINS), LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

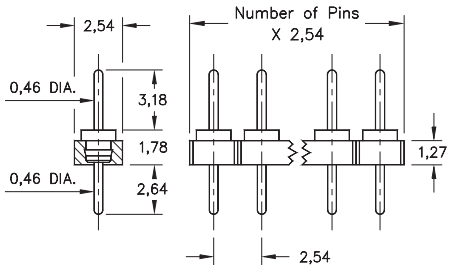


FIG. 1

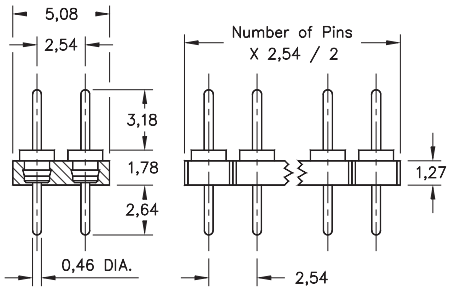


FIG. 2

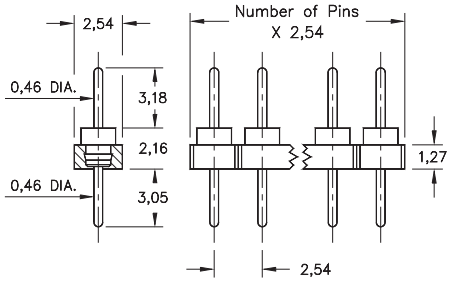


FIG. 3

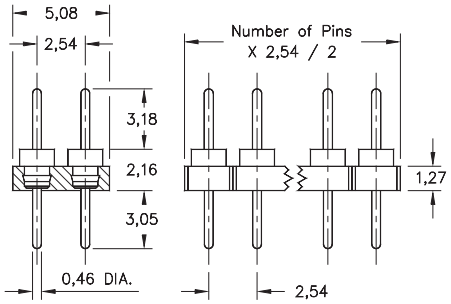
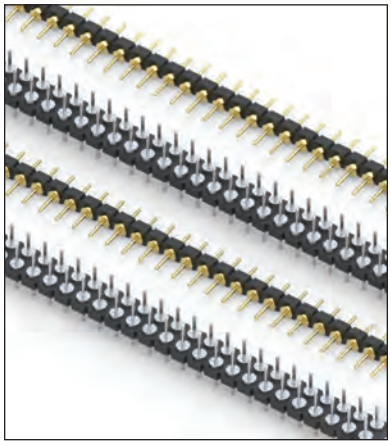


FIG. 4

- Series 335 and 435 single and double row PCB interconnects offer a 1,78 profile, the lowest available
- Series 364 and 464 single and double row PCB interconnects offer 2,16 profile above board
- Series 335 and 435 use MM #3516 pins. See page 212 for details
- Series 364 and 464 use MM #6458 pins. See page 213 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 335...160**	**Single Row 1,78 Profile Pin Header**
	335-XX-1__-00-160000	
	Specify number of pins	01-32
FIG. 2	**Series 435...160**	**Double Row 1,78 Profile Pin Header**
	435-XX-2__-00-160000	
	Specify number of pins	04-72
FIG. 3	**Series 364...580**	**Single Row 2,16 Profile Pin Header**
	364-10-1__-00-580000	
	Specify number of pins	01-32
FIG. 4	**Series 464...580**	**Double Row 2,16 Profile Pin Header**
	464-10-2__-00-580000	
	Specify number of pins	04-72

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 351 • 2,54 GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

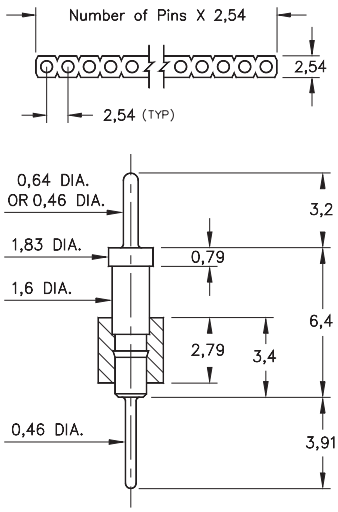


FIG. 1

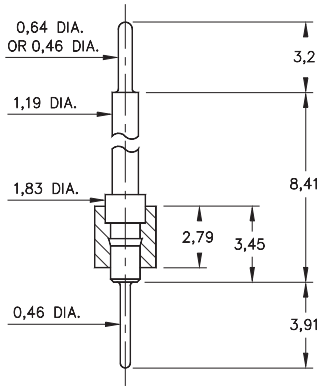


FIG. 2

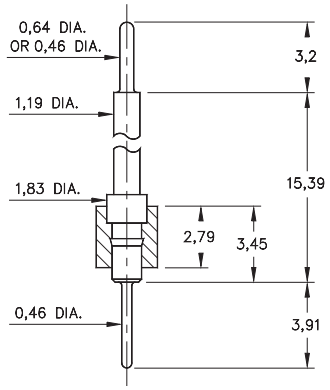
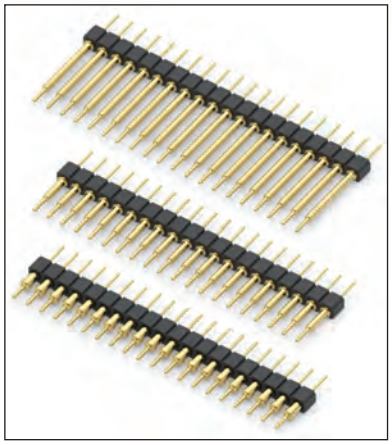


FIG. 3

- Series 351 interconnect header strips come in three lengths with 0,46 dia. pluggable solder tails at one end and 0,64 dia. pins at the other. Please see series:
  351...003 uses pin #5503
  351...004 uses pin #5504
  351...005 uses pin #5505
- 0,46 pluggable solder tails are available at both ends. Please see series:
  351...009 uses pin #5509
  351...010 uses pin #5510
  351...011 uses pin #5511
  See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 351...003**	**0,46 / 0,64 Dia. Solder Tails**
	351-10-1__-00-003000	
	Specify number of pins ↑ 01-64	
	Series 351...009	**0,46 / 0,46 Dia. Solder Tails**
	351-10-1__-00-009000	
	Specify number of pins ↑ 01-64	
FIG. 2	**Series 351...004**	**0,46 / 0,64 Dia. Solder Tails**
	351-10-1__-00-004000	
	Specify number of pins ↑ 01-64	
	Series 351...010	**0,46 / 0,46 Dia. Solder Tails**
	351-10-1__-00-010000	
	Specify number of pins ↑ 01-64	
FIG. 3	**Series 351...005**	**0,46 / 0,64 Dia. Solder Tails**
	351-10-1__-00-005000	
	Specify number of pins ↑ 01-64	
	Series 351...011	**0,46 / 0,46 Dia. Solder Tails**
	351-10-1__-00-011000	
	Specify number of pins ↑ 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

SERIES 451 • 2,54 GRID INTERCONNECT HEADERS • DOUBLE ROW STRIPS

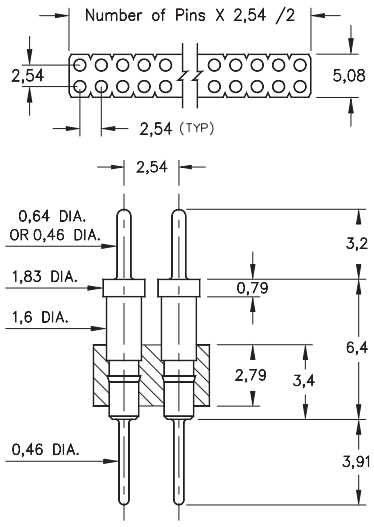


FIG. 1

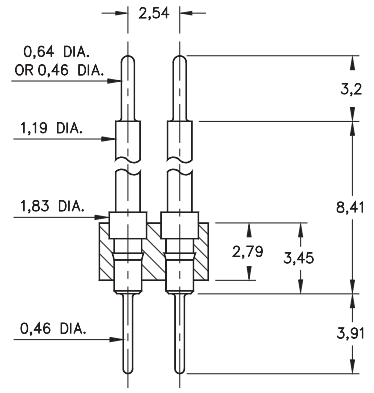


FIG. 2

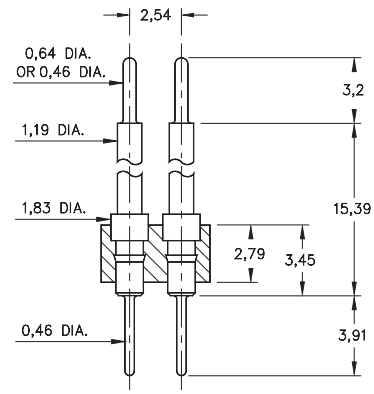


FIG. 3

- Series 451 interconnect header strips come in three lengths with 0,46 dia. pluggable solder tails at one end and 0,64 dia. pins at the other. Please see series:
  451...003 uses pin #5503
  451...004 uses pin #5504
  451...005 uses pin #5505
- 0,46 pluggable solder tails are available at both ends. Please see series:
  451...009 uses pin #5509
  451...010 uses pin #5510
  451...011 uses pin #5511
  See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 451...003**	**0,46 / 0,64 Dia. Solder Tails**
	451-10-2__-00-003000	
	Specify number of pins ← 04-64	
	Series 451...009	**0,46 / 0,46 Dia. Solder Tails**
	451-10-2__-00-009000	
	Specify number of pins ← 04-64	
FIG. 2	**Series 451...004**	**0,46 / 0,64 Dia. Solder Tails**
	451-10-2__-00-004000	
	Specify number of pins ← 04-64	
	Series 451...010	**0,46 / 0,46 Dia. Solder Tails**
	451-10-2__-00-010000	
	Specify number of pins ← 04-64	
FIG. 3	**Series 451...005**	**0,46 / 0,64 Dia. Solder Tails**
	451-10-2__-00-005000	
	Specify number of pins ← 04-64	
	Series 451...011	**0,46 / 0,46 Dia. Solder Tails**
	451-10-2__-00-011000	
	Specify number of pins ← 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	0,25µm Au			

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SERIES 334 • 2,54 GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

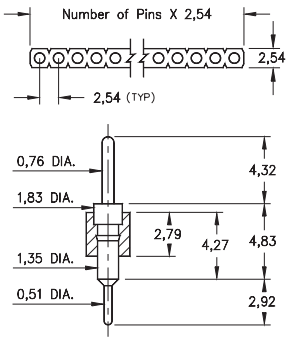


FIG. 1

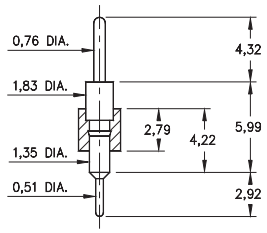


FIG. 2

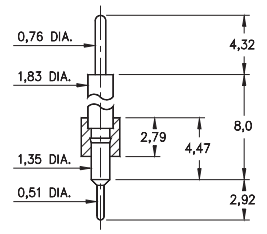


FIG. 3

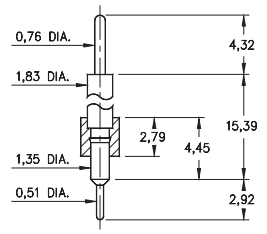


FIG. 4

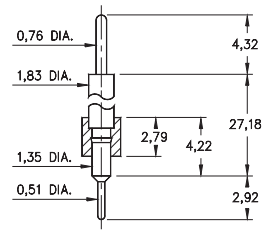


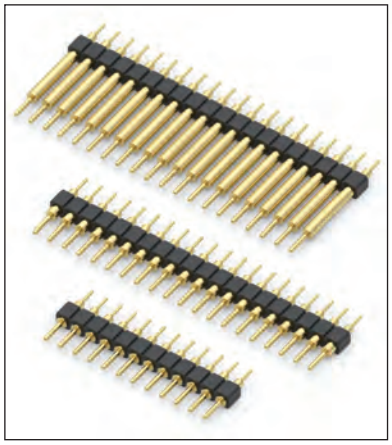
FIG. 5

- Series 334 interconnect header strips are available in 5 lengths:

  334...020 uses pin #3402 (L = 4,83)
  334...010 uses pin #3401 (L = 5,99)
  334...050 uses pin #3405 (L = 8,0)
  334...000 uses pin #3400 (L = 15,39)
  334...100 uses pin #3410 (L = 27,18)
  See page 215 for details

- Strips come with 0,51 pluggable soldertails at one end and 0,76 tails at the other

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 334...020**	**0,51 / 0,76 Dia. Solder Tails**
	334-XX-1__-00-020000 **Specify number of pins** ↑ 01-64	
FIG. 2	**Series 334...010**	**0,51 / 0,76 Dia. Solder Tails**
	334-XX-1__-00-010000 **Specify number of pins** ↑ 01-64	
FIG. 3	**Series 334...050**	**0,51 / 0,76 Dia. Solder Tails**
	334-XX-1__-00-050000 **Specify number of pins** ↑ 01-64	
FIG. 4	**Series 334...000**	**0,51 / 0,76 Dia. Solder Tails**
	334-XX-1__-00-000000 **Specify number of pins** ↑ 01-64	
FIG. 5	**Series 334...100**	**0,51 / 0,76 Dia. Solder Tails**
	334-XX-1__-00-100000 **Specify number of pins** ↑ 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

SERIES 342 • 2,54 GRID BOARD STACKING HEADERS • SINGLE ROW STRIPS

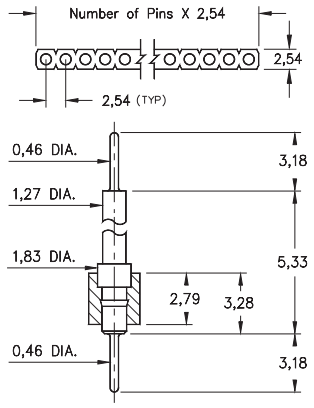


FIG. 1

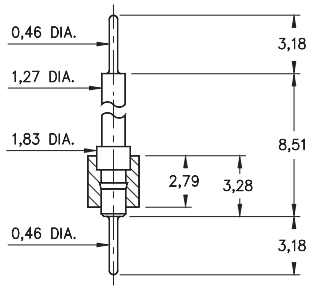


FIG. 2

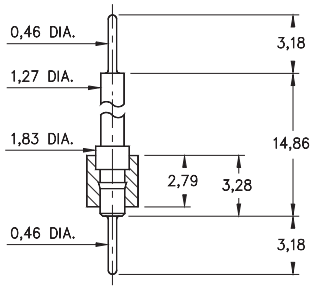


FIG. 3

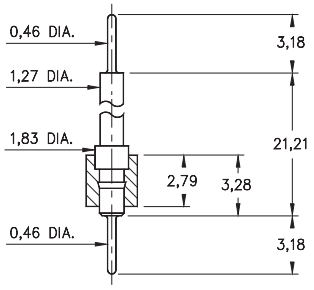
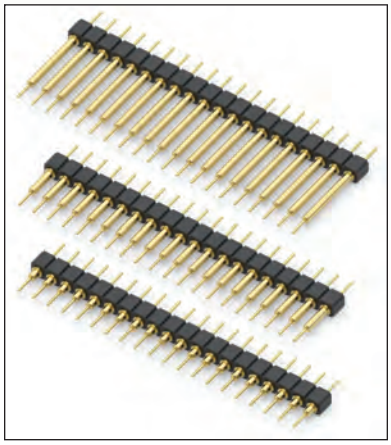


FIG. 4

- Series 342 interconnect header strips come in four heights with 0,46 dia. pluggable solder tails at both ends

  342...591 uses pin #4259-1 (L = 5,33)
  342...592 uses pin #4259-2 (L = 8,51)
  342...593 uses pin #4259-3 (L = 14,86)
  342...594 uses pin #4259-4 (L = 21,21)
  See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 342...591**	**0,46 / 0,46 Dia. Solder Tails**
	342-XX-1__-00-591000	
	Specify number of pins ←	01-64
FIG. 2	**Series 342...592**	**0,46 / 0,46 Dia. Solder Tails**
	342-XX-1__-00-592000	
	Specify number of pins ←	01-64
FIG. 3	**Series 342...593**	**0,46 / 0,46 Dia. Solder Tails**
	342-XX-1__-00-593000	
	Specify number of pins ←	01-64
FIG. 4	**Series 342...594**	**0,46 / 0,46 Dia. Solder Tails**
	342-XX-1__-00-594000	
	Specify number of pins ←	01-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 442 • 2,54 GRID BOARD STACKING HEADERS • DOUBLE ROW STRIPS

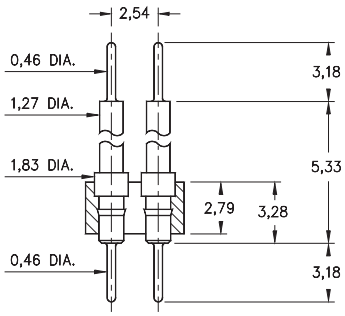

FIG. 1

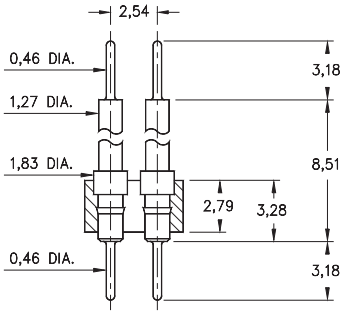

FIG. 2

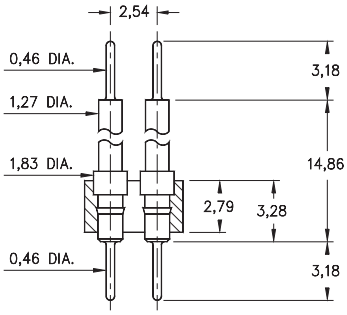

FIG. 3

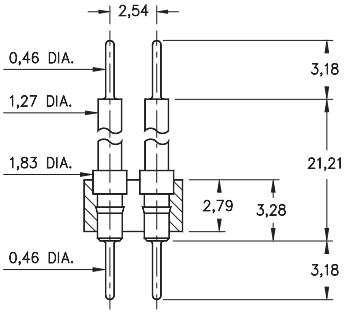

FIG. 4

- Series 442 interconnect header strips come in four heights with 0,46 dia. pluggable solder tails at both ends

  442...591 uses pin #4259-1 (L = 5,33)
  442...592 uses pin #4259-2 (L = 8,51)
  442...593 uses pin #4259-3 (L = 14,86)
  442...594 uses pin #4259-4 (L = 21,21)
  See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 442...591**	**0,46 / 0,46 Dia. Solder Tails**
	442-XX-2__-00-591000	
	Specify number of pins ← 04-64	
FIG. 2	**Series 442...592**	**0,46 / 0,46 Dia. Solder Tails**
	442-XX-2__-00-592000	
	Specify number of pins ← 04-64	
FIG. 3	**Series 442...593**	**0,46 / 0,46 Dia. Solder Tails**
	442-XX-2__-00-593000	
	Specify number of pins ← 04-64	
FIG. 4	**Series 442...594**	**0,46 / 0,46 Dia. Solder Tails**
	442-XX-2__-00-594000	
	Specify number of pins ← 04-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 350, 360, 370, 380 • 2,54 GRID SOLDER TAIL • SINGLE ROW STRIPS

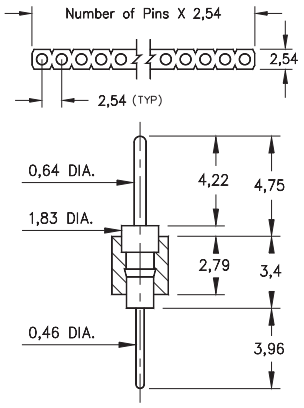


FIG. 1

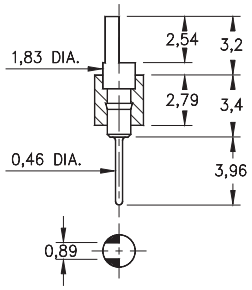


FIG. 2

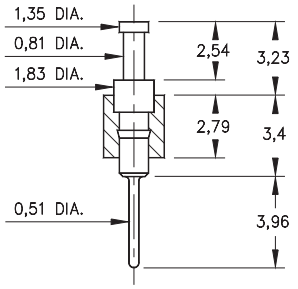


FIG. 3

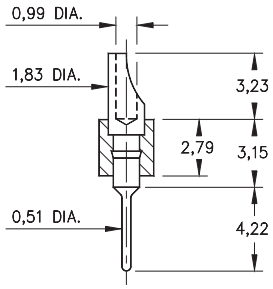
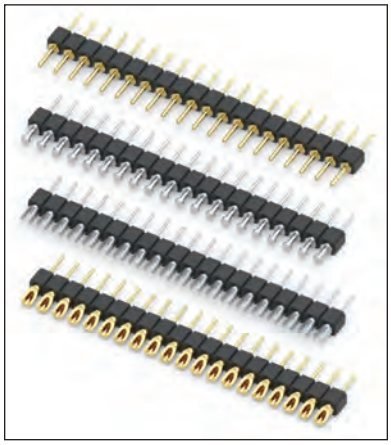


FIG. 4

- Series 350, 360, 370 & 380 single row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

  350...001 uses pin #0290
  360...001 uses pin #0282
  370...001 uses pin #0700
  380...001 uses pin #8000
  See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 350...001**	**0,64 / 0,46 Dia. Solder Tails**
	350-XX-1__-00-001000	
	Specify number of pins ← 01-64	
FIG. 2	**Series 360...001**	**Slotted Head / Solder Tail**
	360-XX-1__-00-001000	
	Specify number of pins ← 01-64	
FIG. 3	**Series 370...001**	**Turret / Solder Tail**
	370-XX-1__-00-001000	
	Specify number of pins ← 01-64	
FIG. 4	**Series 380...001**	**Solder Cup / Solder Tail**
	380-XX-1__-00-001000	
	Specify number of pins ← 01-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 450, 460, 470, 480 • 2,54 GRID SOLDER TAIL • DOUBLE ROW STRIPS

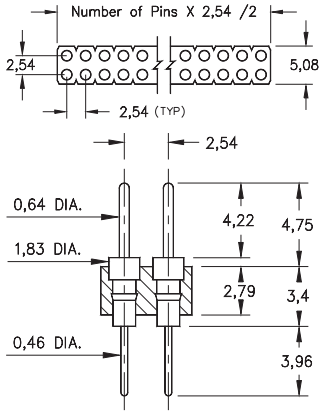


FIG. 1

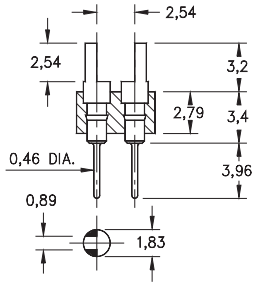


FIG. 2

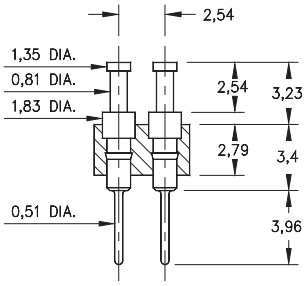


FIG. 3

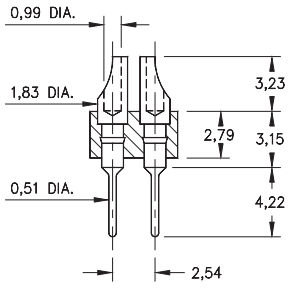
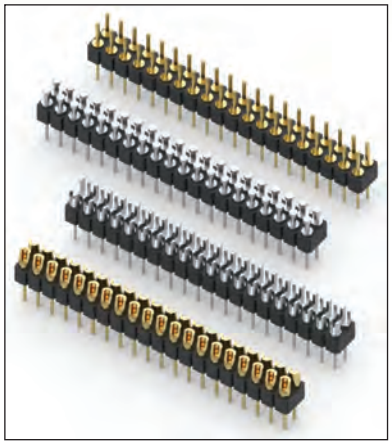


FIG. 4

- Series 450, 460, 470 & 480 double row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

  450...001 uses pin #0290
  460...001 uses pin #0282
  470...001 uses pin #0700
  480...001 uses pin #8000
  See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	**Series 450...001**	**0,64 / 0,46 Dia. Solder Tails**
	450-XX-2__-00-001000 **Specify number of pins** ← 04-64	
FIG. 2	**Series 460...001**	**Slotted Head / Solder Tail**
	460-10-2__-00-001000 **Specify number of pins** ← 02-64	
FIG. 3	**Series 470...001**	**Turret / Solder Tail**
	470-XX-2__-00-001000 **Specify number of pins** ← 04-64	
FIG. 4	**Series 480...001**	**Solder Cup / Solder Tail**
	480-10-2__-00-001000 **Specify number of pins** ← 02-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 353, 362, 363, 373, 382, 383 • 2,54 GRID WRAPOST • SINGLE ROW STRIPS

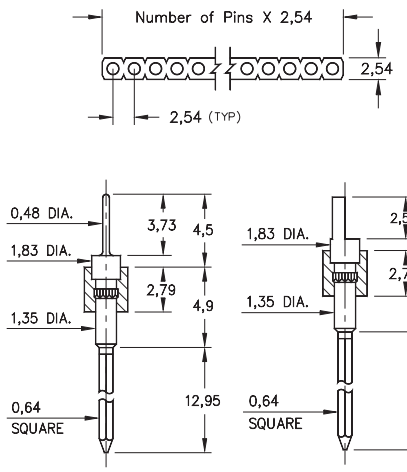


FIG. 1 FIG. 2

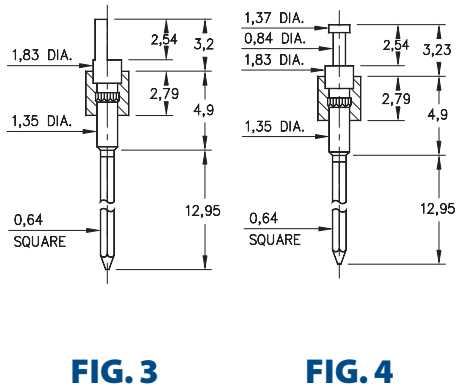


FIG. 3 FIG. 4

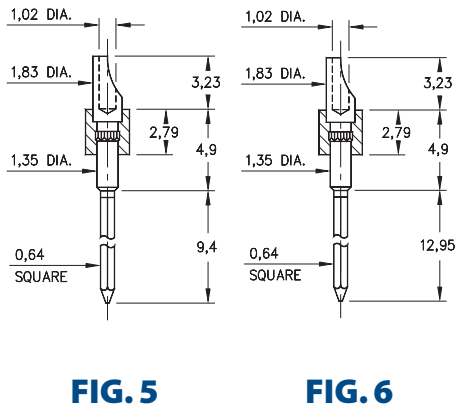
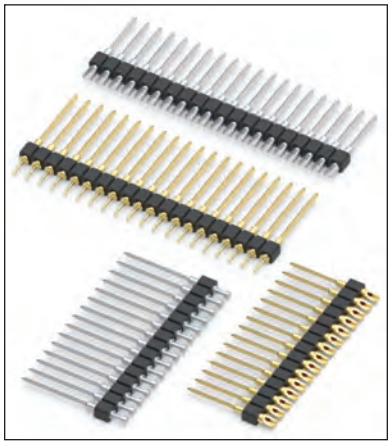


FIG. 5 FIG. 6

- Series 353, 362, 363, 373, 382 and 383 single row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

  353...001 uses pin #5301
  362...001 uses pin #1106-2
  363...001 uses pin #1106-3
  373...001 uses pin #0730-3
  382...001 uses pin #8301-2
  383...001 uses pin #8301-3
  See pages 227 and 228 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 353...001	Pin / 3 Level Wrapost
	353-XX-1__-00-001000	
	Specify number of pins	01-64
FIG. 2	Series 362...001	Slotted Head / 2 Level Wrapost
	362-XX-1__-00-001000	
	Specify number of pins	01-64
FIG. 3	Series 363...001	Slotted Head / 3 Level Wrapost
	363-XX-1__-00-001000	
	Specify number of pins	01-64
FIG. 4	Series 373...001	Turret / 3 Level Wrapost
	373-XX-1__-00-001000	
	Specify number of pins	01-64
FIG. 5	Series 382...001	Solder Cup / 2 Level Wrapost
	382-XX-1__-00-001000	
	Specify number of pins	01-64
FIG. 6	Series 383...001	Solder Cup / 3 Level Wrapost
	383-XX-1__-00-001000	
	Specify number of pins	01-64

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 453, 463, 473, 483 • 2,54 GRID WRAPOST • DOUBLE ROW STRIPS

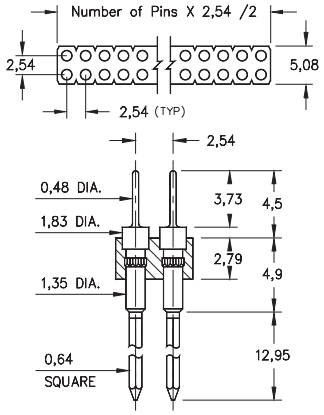

FIG. 1

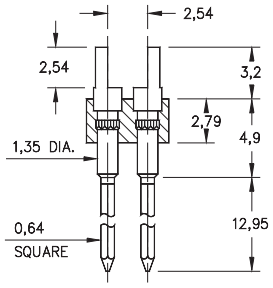

FIG. 2

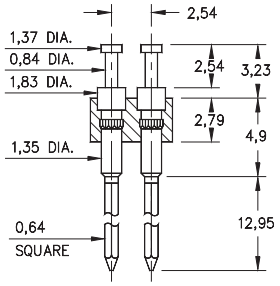

FIG. 3

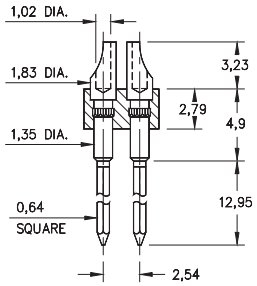

FIG. 4

- Series 453, 463, 473, and 483 double row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

  453...001 uses pin #5301
  463...001 uses pin #1106-3
  473...001 uses pin #0730-3
  483...001 uses pin #8301-3
  See pages 227 and 228 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

ORDERING INFORMATION

FIG. 1	**Series 453...001**	**Pin / 3 Level Wrapost**
	453-10-2__-00-001000 **Specify number of pins** ← 04-64	
FIG. 2	**Series 463...001**	**Slotted Head / 3 Level Wrapost**
	463-XX-2__-00-001000 **Specify number of pins** ← 02-64	
FIG. 3	**Series 473...001**	**Turret / 3 Level Wrapost**
	473-XX-2__-00-001000 **Specify number of pins** ← 04-64	
FIG. 4	**Series 483...001**	**Solder Cup / 3 Level Wrapost**
	483-XX-2__-00-001000 **Specify number of pins** ← 02-64	

RoHS-2 2011/65/EU

XX=Plating Code See Below

For Electrical, Mechanical & Enviromental Data, See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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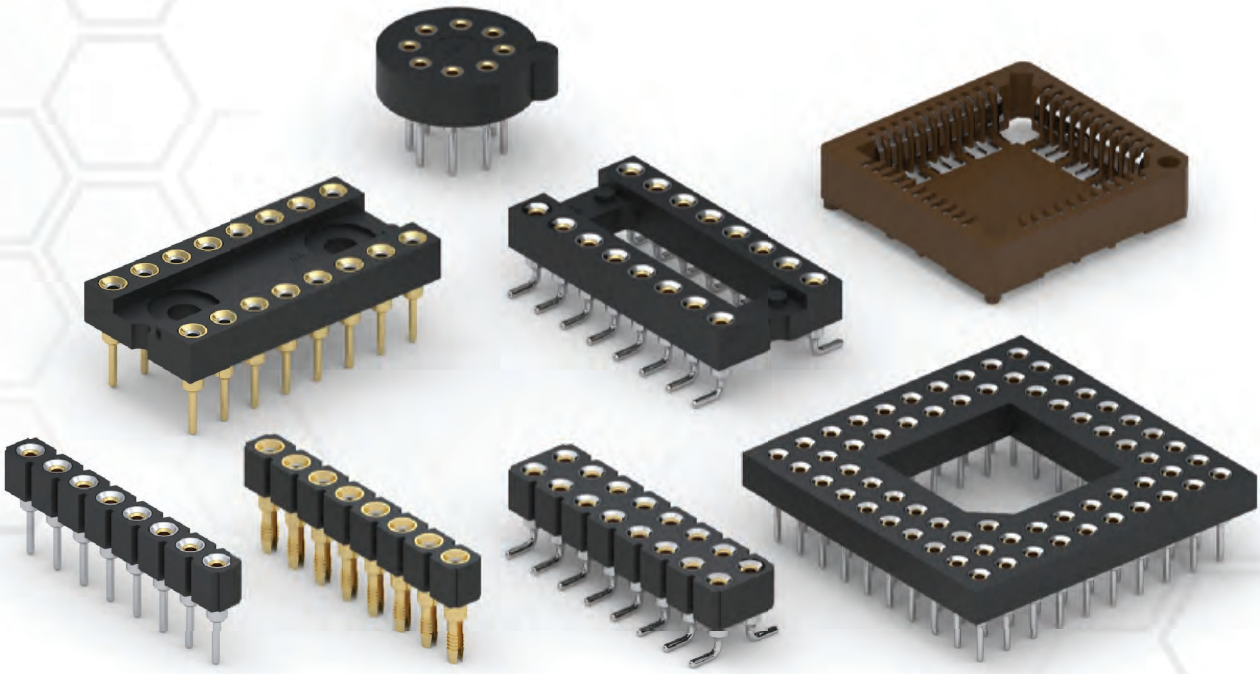
TO SOCKETS



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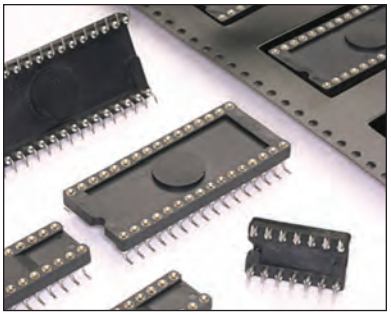
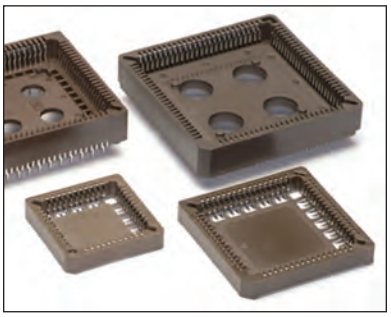
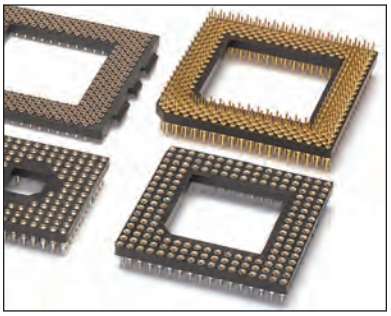
MILL-MAX IC SOCKETS PROVIDE A VARIETY OF OPTIONS FOR MAKING DEVICE-TO-BOARD CONNECTIONS. Our IC Sockets utilize the Mill-Max receptacle as the connection between the IC device and the circuit board. The precision-machined receptacle shell is available in multiple variations to fit many applications. We offer a wide choice of sockets in several board termination types including: solder-tail, press-fit, surface mount and wrapost. These sockets allow for upgradeability and field repair and provide versatility for device substitution between models of a product line.



IC Sockets can be loaded manually for soldering or press-fitting, or when volume placement is required, sockets can be packaged on tape and reel providing labor-saving solutions for our customers.

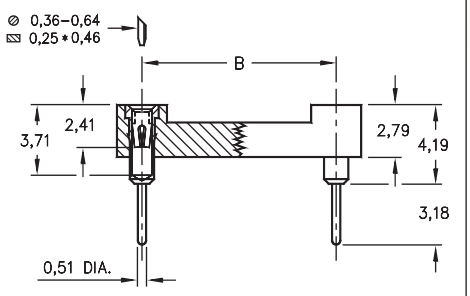


We will gladly quote custom application-specific products in addition to the products found on the following pages.



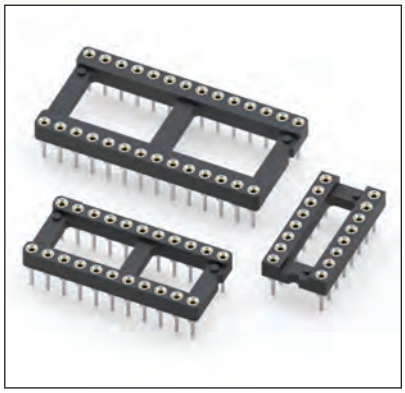
DUAL-IN-LINE SOCKETS

SERIES 110...001 • STANDARD SOLDER TAIL • OPEN FRAME



See page 130 for Insulator Details

- All DIP sockets accept 0,38 - 0,64 diameter and standard IC leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	110-XX-210-41-001000
4	5,0	7,62	10,1	102	110-XX-304-41-001000
6	7,6	7,62	10,1	67	110-XX-306-41-001000
8	10,1	7,62	10,1	50	110-XX-308-41-001000
10	12,6	7,62	10,1	40	110-XX-310-41-001000
14	17,7	7,62	10,1	28	110-XX-314-41-001000
16	20,3	7,62	10,1	25	110-XX-316-41-001000
18	22,8	7,62	10,1	22	110-XX-318-41-001000
20	25,3	7,62	10,1	20	110-XX-320-41-001000
22	27,8	7,62	10,1	18	110-XX-322-41-001000
24	30,4	7,62	10,1	16	110-XX-324-41-001000
28	35,5	7,62	10,1	14	110-XX-328-41-001000
20	25,4	10,16	12,7	20	110-XX-420-41-001000
22	27,8	10,16	12,7	18	110-XX-422-41-001000
24	30,4	10,16	12,7	16	110-XX-424-41-001000
28	35,5	10,16	12,7	14	110-XX-428-41-001000
32	40,6	10,16	12,7	12	110-XX-432-41-001000
24	30,4	15,24	17,7	16	110-XX-624-41-001000
28	35,5	15,24	17,7	14	110-XX-628-41-001000
32	40,6	15,24	17,7	12	110-XX-632-41-001000
36	45,7	15,24	17,7	11	110-XX-636-41-001000
40	50,8	15,24	17,7	10	110-XX-640-41-001000
42	53,3	15,24	17,7	9	110-XX-642-41-001000
48	60,9	15,24	17,7	8	110-XX-648-41-001000
50	63,5	15,24	17,7	8	110-XX-650-41-001000
52	66,0	15,24	17,7	7	110-XX-652-41-001000
50	63,5	22,86	25,3	8	110-XX-950-41-001000
52	66,0	22,86	25,3	7	110-XX-952-41-001000
64	81,2	22,86	25,3	6	110-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

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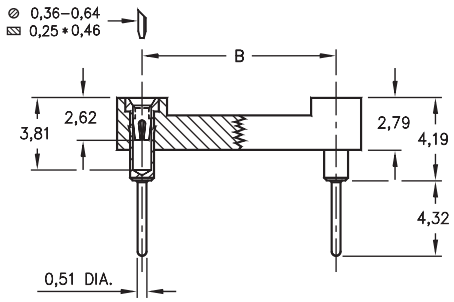
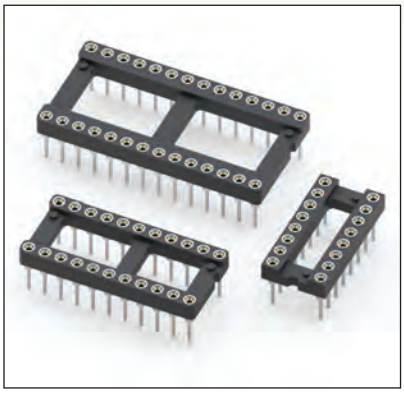
DUAL-IN-LINE SOCKETS

SERIES 111 • LONG SOLDER TAIL FOR MULTI-LAYER PCB • OPEN FRAME



See page 130 for Insulator Details

- DIP sockets with increased solder tail length of 4,32, allowing application on multi-layer PCBs up to 3,53mm thick
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 111 uses MM #0134 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Ordering Information
10	12,6	5,08	7,6	40	111-XX-210-41-001000
4	5,0	7,62	10,1	102	111-XX-304-41-001000
6	7,6	7,62	10,1	67	111-XX-306-41-001000
8	10,1	7,62	10,1	50	111-XX-308-41-001000
10	12,6	7,62	10,1	40	111-XX-310-41-001000
14	17,7	7,62	10,1	28	111-XX-314-41-001000
16	20,3	7,62	10,1	25	111-XX-316-41-001000
18	22,8	7,62	10,1	22	111-XX-318-41-001000
20	25,3	7,62	10,1	20	111-XX-320-41-001000
22	27,8	7,62	10,1	18	111-XX-322-41-001000
24	30,4	7,62	10,1	16	111-XX-324-41-001000
28	35,5	7,62	10,1	14	111-XX-328-41-001000
20	25,4	10,16	12,7	20	111-XX-420-41-001000
22	27,8	10,16	12,7	18	111-XX-422-41-001000
24	30,4	10,16	12,7	16	111-XX-424-41-001000
28	35,5	10,16	12,7	14	111-XX-428-41-001000
32	40,6	10,16	12,7	12	111-XX-432-41-001000
24	30,4	15,24	17,7	16	111-XX-624-41-001000
28	35,5	15,24	17,7	14	111-XX-628-41-001000
32	40,6	15,24	17,7	12	111-XX-632-41-001000
36	45,7	15,24	17,7	11	111-XX-636-41-001000
40	50,8	15,24	17,7	10	111-XX-640-41-001000
42	53,3	15,24	17,7	9	111-XX-642-41-001000
48	60,9	15,24	17,7	8	111-XX-648-41-001000
50	63,5	15,24	17,7	8	111-XX-650-41-001000
52	66,0	15,24	17,7	7	111-XX-652-41-001000
50	63,5	22,86	25,3	8	111-XX-950-41-001000
52	66,0	22,86	25,3	7	111-XX-952-41-001000
64	81,2	22,86	25,3	6	111-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,25µm Au		0,25µm Au	0,25µm Au	Au Flash

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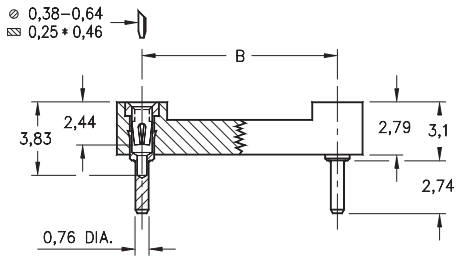
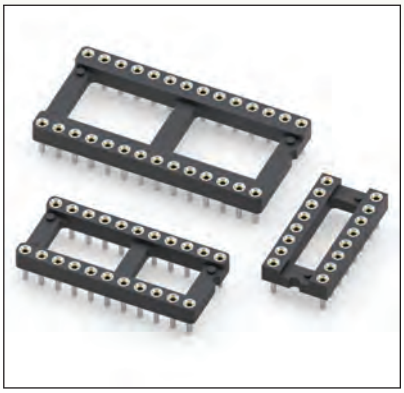
DUAL-IN-LINE SOCKETS

SERIES 115...001 • VERY LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Low profile DIP socket, sits only 3,1mm above the PCB
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 115 uses MM #0501 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	115-XX-210-41-001000
4	5,0	7,62	10,1	102	115-XX-304-41-001000
6	7,6	7,62	10,1	67	115-XX-306-41-001000
8	10,1	7,62	10,1	50	115-XX-308-41-001000
10	12,6	7,62	10,1	40	115-XX-310-41-001000
14	17,7	7,62	10,1	28	115-XX-314-41-001000
16	20,3	7,62	10,1	25	115-XX-316-41-001000
18	22,8	7,62	10,1	22	115-XX-318-41-001000
20	25,3	7,62	10,1	20	115-XX-320-41-001000
22	27,8	7,62	10,1	18	115-XX-322-41-001000
24	30,4	7,62	10,1	16	115-XX-324-41-001000
28	35,5	7,62	10,1	14	115-XX-328-41-001000
20	25,4	10,16	12,7	20	115-XX-420-41-001000
22	27,8	10,16	12,7	18	115-XX-422-41-001000
24	30,4	10,16	12,7	16	115-XX-424-41-001000
28	35,5	10,16	12,7	14	115-XX-428-41-001000
32	40,6	10,16	12,7	12	115-XX-432-41-001000
24	30,4	15,24	17,7	16	115-XX-624-41-001000
28	35,5	15,24	17,7	14	115-XX-628-41-001000
32	40,6	15,24	17,7	12	115-XX-632-41-001000
36	45,7	15,24	17,7	11	115-XX-636-41-001000
40	50,8	15,24	17,7	10	115-XX-640-41-001000
42	53,3	15,24	17,7	9	115-XX-642-41-001000
48	60,9	15,24	17,7	8	115-XX-648-41-001000
50	63,5	15,24	17,7	8	115-XX-650-41-001000
52	66,0	15,24	17,7	7	115-XX-652-41-001000
50	63,5	22,86	25,3	8	115-XX-950-41-001000
52	66,0	22,86	25,3	7	115-XX-952-41-001000
64	81,2	22,86	25,3	6	115-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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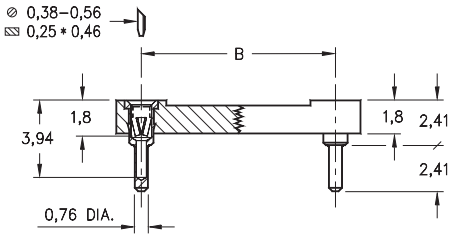
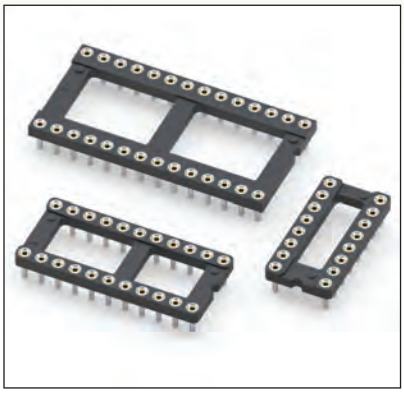
DUAL-IN-LINE SOCKETS

SERIES 115...003 • ULTRA LOW PROFILE • OPEN FRAME



See page 131 for Insulator Details

- Our lowest profile DIP socket with an above PCB height of only 2,41mm
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- Series 115 uses MM #1534 pins. See page 161 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	68	115-XX-306-41-003000
8	10,1	7,62	10,1	50	115-XX-308-41-003000
14	17,7	7,62	10,1	28	115-XX-314-41-003000
16	20,3	7,62	10,1	25	115-XX-316-41-003000
18	22,8	7,62	10,1	22	115-XX-318-41-003000
20	25,3	7,62	10,1	20	115-XX-320-41-003000
22	27,8	7,62	10,1	18	115-XX-322-41-003000
24	30,4	7,62	10,1	16	115-XX-324-41-003000
28	35,5	7,62	10,1	14	115-XX-328-41-003000
20	25,4	10,16	12,7	20	115-XX-420-41-003000
22	27,8	10,16	12,7	18	115-XX-422-41-003000
24	30,4	10,16	12,7	16	115-XX-424-41-003000
28	35,5	10,16	12,7	14	115-XX-428-41-003000
24	30,4	15,24	17,7	16	115-XX-624-41-003000
28	35,5	15,24	17,7	14	115-XX-628-41-003000
32	40,6	15,24	17,7	12	115-XX-632-41-003000
36	45,7	15,24	17,7	11	115-XX-636-41-003000
40	50,8	15,24	17,7	10	115-XX-640-41-003000
48	60,9	15,24	17,7	8	115-XX-648-41-003000
50	63,5	15,24	17,7	8	115-XX-650-41-003000

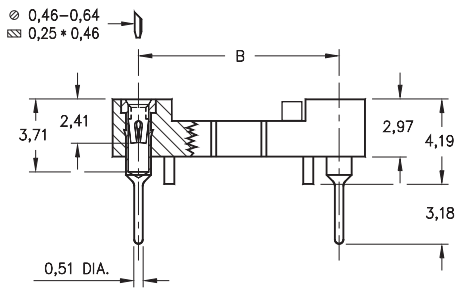
XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

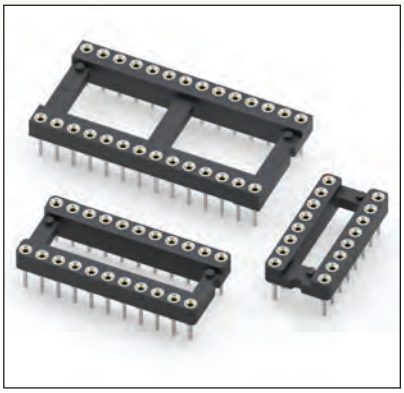
DUAL-IN-LINE SOCKETS

SERIES 110...605 • AUTOMATIC INSERTION • OPEN FRAME



See page 132 for Insulator Details

- High temperature thermoplastic insulator with standoffs is compatible with standard automatic insertion equipment and all soldering processes
- Soft copper alloy machined pins allow clinching. Chamfered contact entry allows for ease of IC insertion without bent leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1005 pins. See page 166 for details
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	67	110-XX-306-41-605000
8	10,1	7,62	10,1	50	110-XX-308-41-605000
14	17,7	7,62	10,1	28	110-XX-314-41-605000
16	20,3	7,62	10,1	25	110-XX-316-41-605000
18	22,8	7,62	10,1	22	110-XX-318-41-605000
20	25,3	7,62	10,1	20	110-XX-320-41-605000
24	30,4	7,62	10,1	16	110-XX-324-41-605000
22	27,8	10,16	12,7	18	110-XX-422-41-605000
24	30,4	15,24	17,7	16	110-XX-624-41-605000
28	35,5	15,24	17,7	14	110-XX-628-41-605000
32	40,6	15,24	17,7	12	110-XX-632-41-605000
40	50,8	15,24	17,7	10	110-XX-640-41-605000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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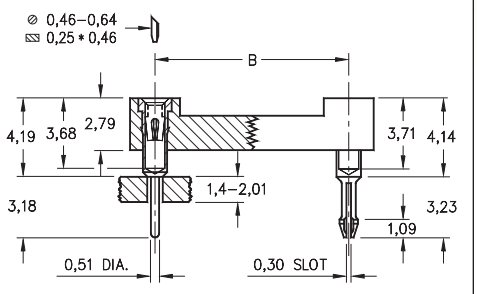
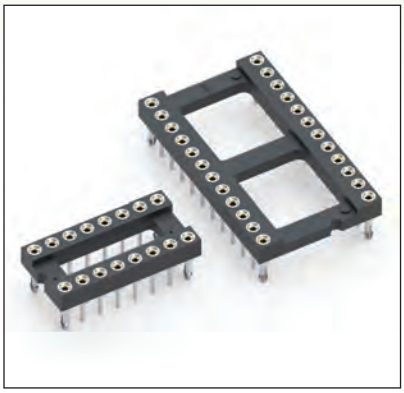
DUAL-IN-LINE SOCKETS

SERIES 101 • CLINCH PIN • OPEN FRAME



See page 130 for Insulator Details

- Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 101 uses MM #1001 and MM #0156 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	67	101-93-306-41-56X000
8	10,1	7,62	10,1	50	101-93-308-41-56X000
14	17,7	7,62	10,1	28	101-93-314-41-56X000
16	20,3	7,62	10,1	25	101-93-316-41-56X000
18	22,8	7,62	10,1	22	101-93-318-41-56X000
20	25,3	7,62	10,1	20	101-93-320-41-56X000
24	30,4	7,62	10,1	16	101-93-324-41-56X000
28	35,5	7,62	10,1	14	101-93-328-41-56X000
22	27,8	10,16	12,7	18	101-93-422-41-56X000
24	30,4	15,24	17,7	16	101-93-624-41-56X000
28	35,5	15,24	17,7	14	101-93-628-41-56X000
32	40,6	15,24	17,7	12	101-93-632-41-56X000
40	50,8	15,24	17,7	10	101-93-640-41-56X000
48	60,9	15,24	17,7	8	101-93-648-41-56X000
64	81,2	22,86	25,3	6	101-93-964-41-56X000

Clinch Pins:

Two Opposite Corner Pins **X = 0**

Four Corner Pins **X = 8**

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =			93				
Sleeve (Pin)			5,08µm Sn/Pb				
Contact (Clip)			0,76µm Au				

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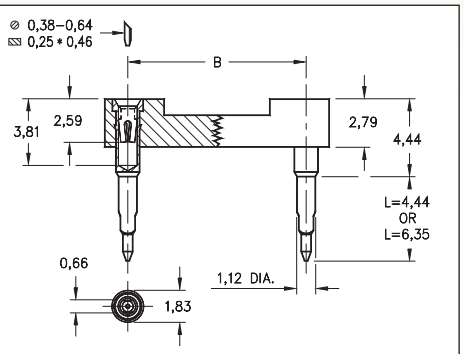
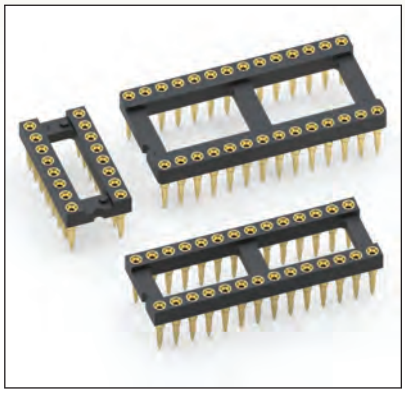
DUAL-IN-LINE SOCKETS

SERIES 104 • SOLDERLESS PRESS-FIT • OPEN FRAME



See page 130 for Insulator Details

- Designed for solderless press-fit into plated through-holes
- Pin lengths are suitable for 1,57 and 2,36 - 3,18 thick panels
- Required plated through hole is 0,91 - 1,04. Use a 1.1mm drill prior to plating
- Series 104 uses MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 4,44 (for 1,57 thick panel)	L = 6,35 (for 3,18 thick panel)
10	12,6	5,08	7,6	40	104-XX-210-41-770000	104-XX-210-41-780000
4	5,0	7,62	10,1	102	104-XX-304-41-770000	104-XX-304-41-780000
6	7,6	7,62	10,1	67	104-XX-306-41-770000	104-XX-306-41-780000
8	10,1	7,62	10,1	50	104-XX-308-41-770000	104-XX-308-41-780000
10	12,6	7,62	10,1	40	104-XX-310-41-770000	104-XX-310-41-780000
14	17,7	7,62	10,1	28	104-XX-314-41-770000	104-XX-314-41-780000
16	20,3	7,62	10,1	25	104-XX-316-41-770000	104-XX-316-41-780000
18	22,8	7,62	10,1	22	104-XX-318-41-770000	104-XX-318-41-780000
20	25,3	7,62	10,1	20	104-XX-320-41-770000	104-XX-320-41-780000
22	27,8	7,62	10,1	18	104-XX-322-41-770000	104-XX-322-41-780000
24	30,4	7,62	10,1	16	104-XX-324-41-770000	104-XX-324-41-780000
28	35,5	7,62	10,1	14	104-XX-328-41-770000	104-XX-328-41-780000
20	25,4	10,16	12,7	20	104-XX-420-41-770000	104-XX-420-41-780000
22	27,8	10,16	12,7	18	104-XX-422-41-770000	104-XX-422-41-780000
24	30,4	10,16	12,7	16	104-XX-424-41-770000	104-XX-424-41-780000
28	35,5	10,16	12,7	14	104-XX-428-41-770000	104-XX-428-41-780000
32	40,6	10,16	12,7	12	104-XX-432-41-770000	104-XX-432-41-780000
24	30,4	15,24	17,7	16	104-XX-624-41-770000	104-XX-624-41-780000
28	35,5	15,24	17,7	14	104-XX-628-41-770000	104-XX-628-41-780000
32	40,6	15,24	17,7	12	104-XX-632-41-770000	104-XX-632-41-780000
36	45,7	15,24	17,7	11	104-XX-636-41-770000	104-XX-636-41-780000
40	50,8	15,24	17,7	10	104-XX-640-41-770000	104-XX-640-41-780000
42	53,3	15,24	17,7	9	104-XX-642-41-770000	104-XX-642-41-780000
48	60,9	15,24	17,7	8	104-XX-648-41-770000	104-XX-648-41-780000
50	63,5	15,24	17,7	8	104-XX-650-41-770000	104-XX-650-41-780000
52	66,0	15,24	17,7	7	104-XX-652-41-770000	104-XX-652-41-780000
50	63,5	22,86	25,3	8	104-XX-950-41-770000	104-XX-950-41-780000
52	66,0	22,86	25,3	7	104-XX-952-41-770000	104-XX-952-41-780000
64	81,2	22,86	25,3	6	104-XX-964-41-770000	104-XX-964-41-780000

RoHS - 2
2011/65/EU

XX=Plating Code
See Below

SPECIFY PLATING CODE XX =	11 ◆	13 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au
Contact (Clip)	0,25µm Au	0,76µm Au

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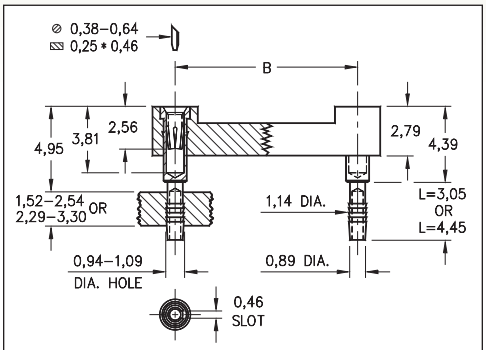
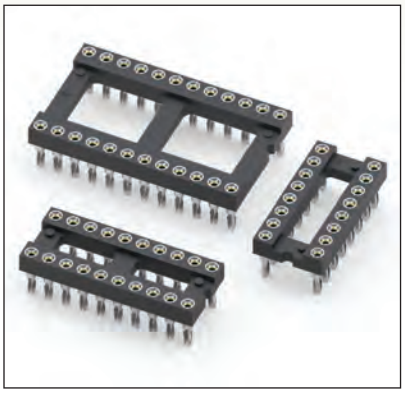
DUAL-IN-LINE SOCKETS

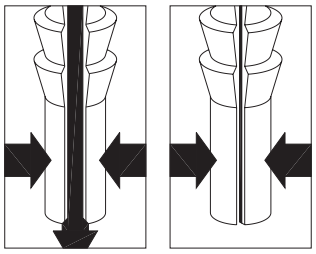
SERIES 146 • SOLDERLESS PRESS-FIT, COMPLIANT TAIL • OPEN FRAME



See page 130 for Insulator Details

- Unique compliant tail pins conform to a 1,02± 0,76 finished plated through hole diameter without stressing inner layers
- Two tails lengths are offered for 1,52 - 2,54 and 2,29 - 3,30 thick panels
- Series 146 uses MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details





APPLICATION OF COMPLIANT TAIL PINS

Mill-Max's patented* precision-machined pins feature compliant tails that are hollow and slotted to conform to a 1,02 ± 0,76 diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.
*Patent No. 4,799,904.

ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 3,05 (for 1,52 - 2,54 thick panel)	L = 4,45 (for 2,29 - 3,30 thick panel)
6	7,6	7,62	10,1	67	146-XX-306-41-012000	146-XX-306-41-013000
8	10,1	7,62	10,1	50	146-XX-308-41-012000	146-XX-308-41-013000
14	17,7	7,62	10,1	28	146-XX-314-41-012000	146-XX-314-41-013000
16	20,3	7,62	10,1	25	146-XX-316-41-012000	146-XX-316-41-013000
18	22,8	7,62	10,1	22	146-XX-318-41-012000	146-XX-318-41-013000
20	25,3	7,62	10,1	20	146-XX-320-41-012000	146-XX-320-41-013000
24	30,4	7,62	10,1	16	146-XX-324-41-012000	146-XX-324-41-013000
22	27,8	10,16	12,7	18	146-XX-422-41-012000	146-XX-422-41-013000
24	30,4	15,24	17,7	16	146-XX-624-41-012000	146-XX-624-41-013000
28	35,5	15,24	17,7	14	146-XX-628-41-012000	146-XX-628-41-013000
32	40,6	15,24	17,7	12	146-XX-632-41-012000	146-XX-632-41-013000
40	50,8	15,24	17,7	10	146-XX-640-41-012000	146-XX-640-41-013000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,25µm Au		0,25µm Au	0,25µm Au	

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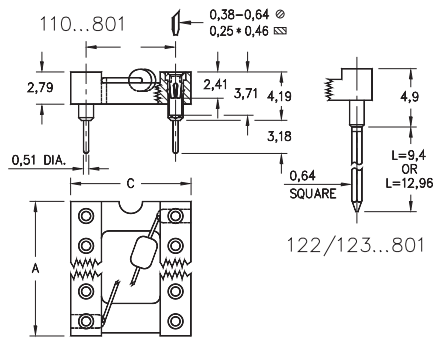
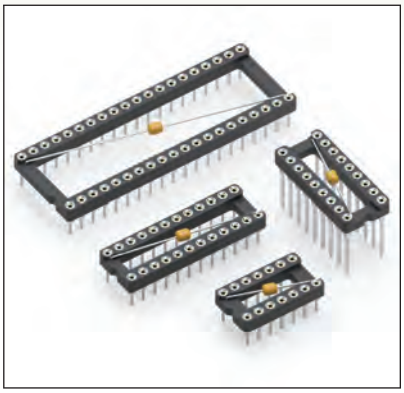
DUAL-IN-LINE SOCKETS

SERIES 110, 122, 123 • INTEGRAL DECOUPLING CAPACITOR • OPEN FRAME



See page 130 for Insulator Details

- Low profile DIP sockets w/ integral decoupling capacitor: .1µ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,96 (3 Level Wrapost)
14	17,7	7,62	10,1	28	110-XX-314-41-801000	122-XX-314-41-801000	123-XX-314-41-801000
16	20,3	7,62	10,1	25	110-XX-316-41-801000	122-XX-316-41-801000	123-XX-316-41-801000
18	22,8	7,62	10,1	22	110-XX-318-41-801000	122-XX-318-41-801000	123-XX-318-41-801000
20	25,3	7,62	10,1	20	110-XX-320-41-801000	122-XX-320-41-801000	123-XX-320-41-801000
22	27,8	7,62	10,1	18	110-XX-322-41-801000	122-XX-322-41-801000	123-XX-322-41-801000
24	30,4	7,62	10,1	16	110-XX-324-41-801000	122-XX-324-41-801000	123-XX-324-41-801000
28	35,5	7,62	10,1	14	110-XX-328-41-801000	122-XX-328-41-801000	123-XX-328-41-801000
24	30,4	15,24	17,7	16	110-XX-624-41-801000	122-XX-624-41-801000	123-XX-624-41-801000
28	35,5	15,24	17,7	14	110-XX-628-41-801000	122-XX-628-41-801000	123-XX-628-41-801000
32	40,6	15,24	17,7	12	110-XX-632-41-801000	122-XX-632-41-801000	123-XX-632-41-801000
40	50,8	15,24	17,7	10	110-XX-640-41-801000	122-XX-640-41-801000	123-XX-640-41-801000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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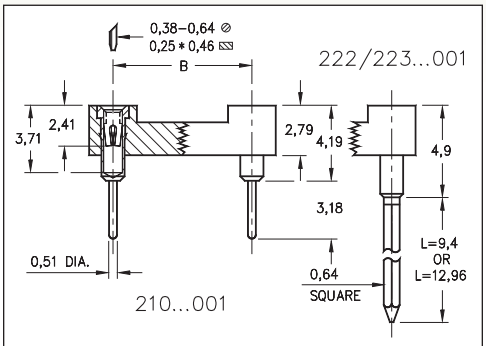
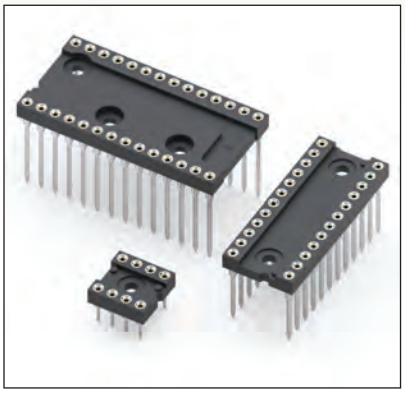
DUAL-IN-LINE SOCKETS

SERIES 210, 222, 223 • SOLDER TAIL AND WRAPOST • CLOSED FRAME



See page 131 for Insulator Details

- Closed frame insulator withstands high mechanical impact
- Available with standard solder pins, 2-level or 3-level wraposts
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,96 (3 Level Wrapost)
6	7,6	7,62	10,1	67	210-XX-306-41-001000	222-XX-306-41-001000	223-XX-306-41-001000
8	10,1	7,62	10,1	50	210-XX-308-41-001000	222-XX-308-41-001000	223-XX-308-41-001000
10	12,6	7,62	10,1	40	210-XX-310-41-001000	222-XX-310-41-001000	223-XX-310-41-001000
14	17,7	7,62	10,1	28	210-XX-314-41-001000	222-XX-314-41-001000	223-XX-314-41-001000
16	20,3	7,62	10,1	25	210-XX-316-41-001000	222-XX-316-41-001000	223-XX-316-41-001000
18	22,8	7,62	10,1	22	210-XX-318-41-001000	222-XX-318-41-001000	223-XX-318-41-001000
20	25,3	7,62	10,1	20	210-XX-320-41-001000	222-XX-320-41-001000	223-XX-320-41-001000
22	27,8	7,62	10,1	18	210-XX-322-41-001000	222-XX-322-41-001000	223-XX-322-41-001000
24	30,4	7,62	10,1	16	210-XX-324-41-001000	222-XX-324-41-001000	223-XX-324-41-001000
22	27,8	10,16	12,7	18	210-XX-422-41-001000	222-XX-422-41-001000	223-XX-422-41-001000
24	30,4	10,16	12,7	16	210-XX-424-41-001000	222-XX-424-41-001000	223-XX-424-41-001000
24	30,4	15,24	17,7	16	210-XX-624-41-001000	222-XX-624-41-001000	223-XX-624-41-001000
28	35,5	15,24	17,7	14	210-XX-628-41-001000	222-XX-628-41-001000	223-XX-628-41-001000
32	40,6	15,24	17,7	12	210-XX-632-41-001000	222-XX-632-41-001000	223-XX-632-41-001000
36	45,7	15,24	17,7	11	210-XX-636-41-001000	222-XX-636-41-001000	223-XX-636-41-001000
40	50,8	15,24	17,7	10	210-XX-640-41-001000	222-XX-640-41-001000	223-XX-640-41-001000
64	81,2	22,86	25,3	6	210-XX-964-41-001000	222-XX-964-41-001000	223-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

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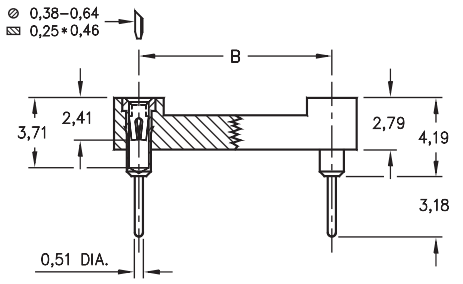
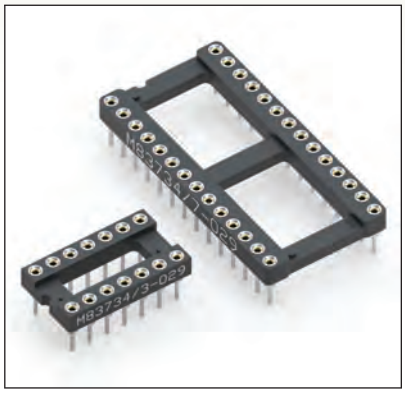
DUAL-IN-LINE SOCKETS

SERIES 110...530 • MIL-DTL-83734 APPROVED, SOLDER TAIL • OPEN FRAME

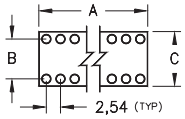


See page 130 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION



Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
8	10,1	7,62	10,1	50	110-XX-308-41-530000	M83734/2-YYY
14	17,7	7,62	10,1	28	110-XX-314-41-530000	M83734/3-YYY
16	20,3	7,62	10,1	25	110-XX-316-41-530000	M83734/4-YYY
18	22,8	7,62	10,1	22	110-XX-318-41-530000	M83734/5-YYY
20	25,3	7,62	10,1	20	110-XX-320-41-530000	M83734/13-YYY
22	27,8	10,16	12,7	18	110-XX-422-41-530000	M83734/6-YYY
24	30,4	15,24	17,7	16	110-XX-624-41-530000	M83734/8-YYY
28	35,5	15,24	17,7	14	110-XX-628-41-530000	M83734/7-YYY
40	50,8	15,24	17,7	10	110-XX-640-41-530000	M83734/10-YYY
48	60,9	15,24	17,7	8	110-XX-648-41-530000	M83734/14-YYY
64	81,2	22,86	25,3	6	110-XX-964-41-530000	M83734/15-YYY

XX=Plating Code See Below

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
FOR MILITARY PLATING CODE YYY =	028	029	030
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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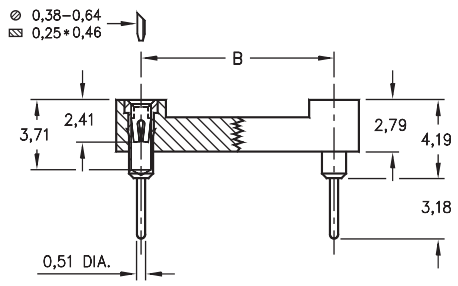
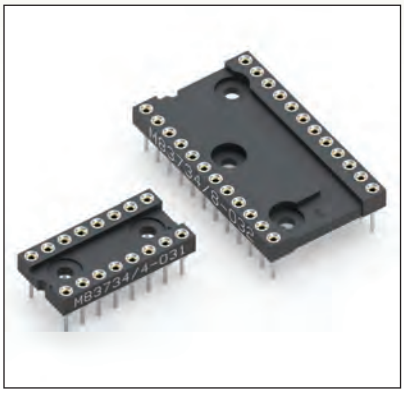
DUAL-IN-LINE SOCKETS

SERIES 210...101 • MIL-DTL-83734 APPROVED, SOLDER TAIL • CLOSED FRAME



See page 131 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
6	7,6	7,62	10,1	67	210-XX-306-41-101000	M83734/1-YYY
8	10,1	7,62	10,1	50	210-XX-308-41-101000	M83734/2-YYY
14	17,7	7,62	10,1	28	210-XX-314-41-101000	M83734/3-YYY
16	20,3	7,62	10,1	25	210-XX-316-41-101000	M83734/4-YYY
18	22,8	7,62	10,1	22	210-XX-318-41-101000	M83734/5-YYY
20	25,3	7,62	10,1	20	210-XX-320-41-101000	M83734/13-YYY
22	27,8	10,16	12,7	18	210-XX-422-41-101000	M83734/6-YYY
24	30,4	15,24	17,7	16	210-XX-624-41-101000	M83734/8-YYY
28	35,5	15,24	17,7	14	210-XX-628-41-101000	M83734/7-YYY
32	40,6	15,24	17,7	10	210-XX-632-41-101000	M83734/17-YYY
36	45,7	15,24	17,7	11	210-XX-636-41-101000	M83734/9-YYY
40	50,8	15,24	17,7	8	210-XX-640-41-101000	M83734/10-YYY
64	81,2	22,86	25,3	6	210-XX-964-41-101000	M83734/15-YYY

XX=Plating Code See Below

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	**33**	**83**	**88**
FOR MILITARY PLATING CODE YYY =	**031**	**032**	**033**
(6 PIN ONLY) YYY =	**025**	**026**	**027**
(32 PIN ONLY) YYY =	**013**	**014**	**015**
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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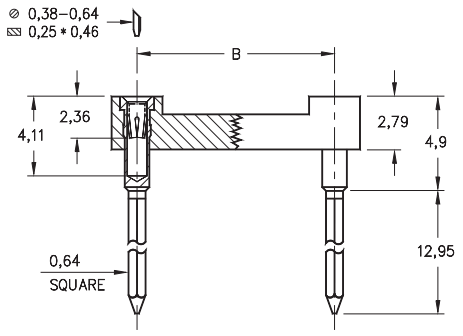
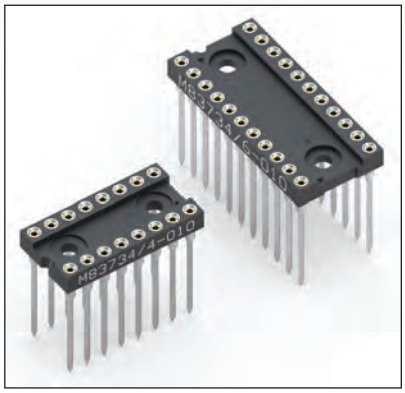
DUAL-IN-LINE SOCKETS

SERIES 223...101 • MIL-DTL-83734 APPROVED, 3 LEVEL WRAPOST • CLOSED FRAME



See page 131 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 223 uses MM #0038-3 or #0088-3 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
6	7,6	7,62	10,1	67	223-XX-306-41-101000	M83734/1-YYY
8	10,1	7,62	10,1	50	223-XX-308-41-101000	M83734/2-YYY
14	17,7	7,62	10,1	28	223-XX-314-41-101000	M83734/3-YYY
16	20,3	7,62	10,1	25	223-XX-316-41-101000	M83734/4-YYY
18	22,8	7,62	10,1	22	223-XX-318-41-101000	M83734/5-YYY
20	25,3	7,62	10,1	20	223-XX-320-41-101000	M83734/13-YYY
22	27,8	10,16	12,7	18	223-XX-422-41-101000	M83734/6-YYY
24	30,4	15,24	17,7	16	223-XX-624-41-101000	M83734/8-YYY
28	35,5	15,24	17,7	14	223-XX-628-41-101000	M83734/7-YYY
32	40,6	15,24	17,7	12	223-XX-632-41-101000	M83734/17-YYY
36	45,7	15,24	17,7	11	223-XX-636-41-101000	M83734/9-YYY
40	50,8	15,24	17,7	10	223-XX-640-41-101000	M83734/10-YYY
64	81,2	22,86	25,3	6	223-XX-964-41-101000	M83734/15-YYY

ORDERING INFORMATION

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
SPECIFY MILL-MAX PLATING CODE XX =	010	011	012
(32 PIN ONLY) YYY =	007	008	009
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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DUAL-IN-LINE SOCKETS

DIP SOCKETS QUALIFIED TO MIL-DTL-83734

MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101000
M83734/1-011	223-83-306-41-101000
M83734/1-012	223-88-306-41-101000
M83734/1-025	210-33-306-41-101000
M83734/1-026	210-83-306-41-101000
M83734/1-027	210-88-306-41-101000
M83734/2-010	223-33-308-41-101000
M83734/2-011	223-83-308-41-101000
M83734/2-012	223-88-308-41-101000
M83734/2-028	110-33-308-41-530000
M83734/2-029	110-83-308-41-530000
M83734/2-030	110-88-308-41-530000
M83734/2-031	210-33-308-41-101000
M83734/2-032	210-83-308-41-101000
M83734/2-033	210-88-308-41-101000
M83734/3-010	223-33-314-41-101000
M83734/3-011	223-83-314-41-101000
M83734/3-012	223-88-314-41-101000
M83734/3-028	110-33-314-41-530000
M83734/3-029	110-83-314-41-530000
M83734/3-030	110-88-314-41-530000
M83734/3-031	210-33-314-41-101000
M83734/3-032	210-83-314-41-101000
M83734/3-033	210-88-314-41-101000
M83734/4-010	223-33-316-41-101000
M83734/4-011	223-83-316-41-101000
M83734/4-012	223-88-316-41-101000
M83734/4-028	110-33-316-41-530000
M83734/4-029	110-83-316-41-530000
M83734/4-030	110-88-316-41-530000
M83734/4-031	210-33-316-41-101000
M83734/4-032	210-83-316-41-101000
M83734/4-033	210-88-316-41-101000
M83734/5-010	223-33-318-41-101000
M83734/5-011	223-83-318-41-101000
M83734/5-012	223-88-318-41-101000
M83734/5-028	110-33-318-41-530000
M83734/5-029	110-83-318-41-530000
M83734/5-030	110-88-318-41-530000
M83734/5-031	210-33-318-41-101000
M83734/5-032	210-83-318-41-101000
M83734/5-033	210-88-318-41-101000
M83734/6-010	223-33-422-41-101000
M83734/6-011	223-83-422-41-101000
M83734/6-012	223-88-422-41-101000
M83734/6-028	110-33-422-41-530000
M83734/6-029	110-83-422-41-530000
M83734/6-030	110-88-422-41-530000
M83734/6-031	210-33-422-41-101000
M83734/6-032	210-83-422-41-101000
M83734/6-033	210-88-422-41-101000

MIL SPEC #	MILL-MAX #
M83734/7-010	223-33-628-41-101000
M83734/7-011	223-83-628-41-101000
M83734/7-012	223-88-628-41-101000
M83734/7-028	110-33-628-41-530000
M83734/7-029	110-83-628-41-530000
M83734/7-030	110-88-628-41-530000
M83734/7-031	210-33-628-41-101000
M83734/7-032	210-83-628-41-101000
M83734/7-033	210-88-628-41-101000
M83734/8-010	223-33-624-41-101000
M83734/8-011	223-83-624-41-101000
M83734/8-012	223-88-624-41-101000
M83734/8-028	110-33-624-41-530000
M83734/8-029	110-83-624-41-530000
M83734/8-030	110-88-624-41-530000
M83734/8-031	210-33-624-41-101000
M83734/8-032	210-83-624-41-101000
M83734/8-033	210-88-624-41-101000
M83734/9-010	223-33-636-41-101000
M83734/9-011	223-83-636-41-101000
M83734/9-012	223-88-636-41-101000
M83734/9-031	210-33-636-41-101000
M83734/9-032	210-83-636-41-101000
M83734/9-033	210-88-636-41-101000
M83734/10-010	223-33-640-41-101000
M83734/10-011	223-83-640-41-101000
M83734/10-012	223-88-640-41-101000
M83734/10-028	110-33-640-41-530000
M83734/10-029	110-83-640-41-530000
M83734/10-030	110-88-640-41-530000
M83734/10-031	210-33-640-41-101000
M83734/10-032	210-83-640-41-101000
M83734/10-033	210-88-640-41-101000
M83734/13-010	223-33-320-41-101000
M83734/13-011	223-83-320-41-101000
M83734/13-012	223-88-320-41-101000
M83734/13-028	110-33-320-41-530000
M83734/13-029	110-83-320-41-530000
M83734/13-030	110-88-320-41-530000
M83734/13-031	210-33-320-41-101000
M83734/13-032	210-83-320-41-101000
M83734/13-033	210-88-320-41-101000
M83734/14-028	110-33-648-41-530000
M83734/14-029	110-83-648-41-530000
M83734/14-030	110-88-648-41-530000
M83734/15-010	223-33-964-41-101000
M83734/15-011	223-83-964-41-101000
M83734/15-012	223-88-964-41-101000
M83734/15-028	110-33-964-41-530000
M83734/15-029	110-83-964-41-530000

MIL SPEC #	MILL-MAX #
M83734/15-030	110-88-964-41-530000
M83734/15-031	210-33-964-41-101000
M83734/15-032	210-83-964-41-101000
M83734/15-033	210-88-964-41-101000
M83734/17-001	221-33-632-41-101000
M83734/17-002	221-83-632-41-101000
M83734/17-003	221-88-632-41-101000
M83734/17-004	222-33-632-41-101000
M83734/17-005	222-83-632-41-101000
M83734/17-006	222-88-632-41-101000
M83734/17-007	223-33-632-41-101000
M83734/17-008	223-83-632-41-101000
M83734/17-009	223-88-632-41-101000
M83734/17-013	210-33-632-41-101000
M83734/17-014	210-83-632-41-101000
M83734/17-015	210-88-632-41-101000

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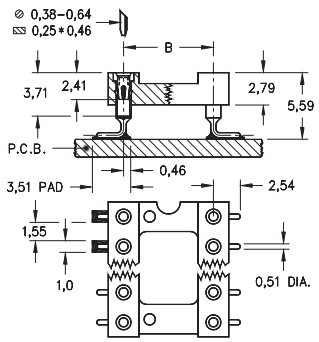
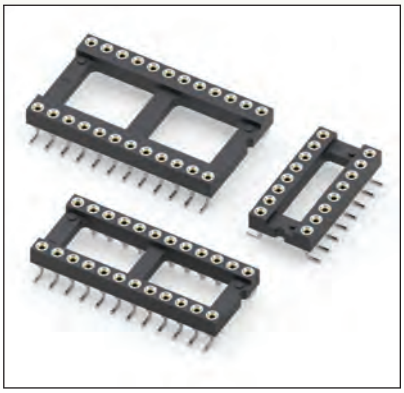
DUAL-IN-LINE SOCKETS

SERIES 110...105 • SURFACE MOUNT, GULL WING • OPEN FRAME



See page 130 for Insulator Details

- Socket pins feature closed end construction eliminating any solder wicking problems
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 110 uses Mill-Max #1005 pins. See page 166 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	110-XX-210-41-105000
4	5,0	7,62	10,1	102	110-XX-304-41-105000
6	7,6	7,62	10,1	67	110-XX-306-41-105000
8	10,1	7,62	10,1	50	110-XX-308-41-105000
10	12,6	7,62	10,1	40	110-XX-310-41-105000
14	17,7	7,62	10,1	28	110-XX-314-41-105000
16	20,3	7,62	10,1	25	110-XX-316-41-105000
18	22,8	7,62	10,1	22	110-XX-318-41-105000
20	25,3	7,62	10,1	20	110-XX-320-41-105000
22	27,8	7,62	10,1	18	110-XX-322-41-105000
24	30,4	7,62	10,1	16	110-XX-324-41-105000
28	35,5	7,62	10,1	14	110-XX-328-41-105000
20	25,4	10,16	12,7	20	110-XX-420-41-105000
22	27,8	10,16	12,7	18	110-XX-422-41-105000
24	30,4	10,16	12,7	16	110-XX-424-41-105000
28	35,5	10,16	12,7	14	110-XX-428-41-105000
32	40,6	10,16	12,7	12	110-XX-432-41-105000
24	30,4	15,24	17,7	16	110-XX-624-41-105000
28	35,5	15,24	17,7	14	110-XX-628-41-105000
32	40,6	15,24	17,7	12	110-XX-632-41-105000
36	45,7	15,24	17,7	11	110-XX-636-41-105000
40	50,8	15,24	17,7	10	110-XX-640-41-105000
42	53,3	15,24	17,7	9	110-XX-642-41-105000
48	60,9	15,24	17,7	8	110-XX-648-41-105000
50	63,5	15,24	17,7	8	110-XX-650-41-105000
52	66,0	15,24	17,7	7	110-XX-652-41-105000
50	63,5	22,86	25,3	8	110-XX-950-41-105000
52	66,0	22,86	25,3	7	110-XX-952-41-105000
64	81,2	22,86	25,3	6	110-XX-964-41-105000

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=		91	93			43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au			0,76µm Au	Au Flash

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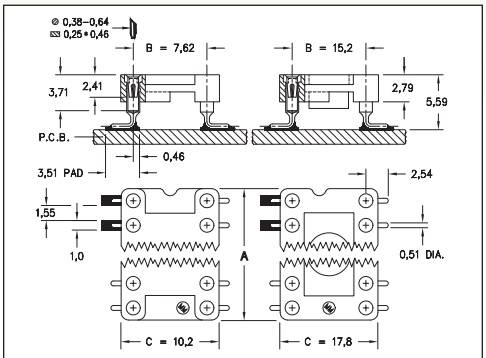
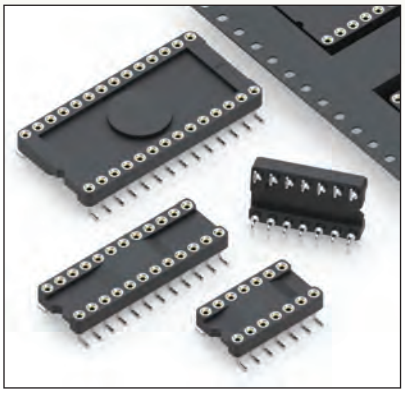
DUAL-IN-LINE SOCKETS

SERIES 210...105 • SMT, AUTO PLACEMENT, GULL WING • CLOSED FRAME



See page 131 for Insulator Details

- Closed frame insulator is vision system compatible
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 210 uses Mill-Max #1005 pins. See page 166 for details
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- High-temp Nylon 46 insulator is suitable for all forms of reflow soldering
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel
					VACUUM PAD TOP SURFACE ONLY			
6	7,6	7,62	10,1	67	210-XX-306-41-105000	210-XX-306-41-105799	16	400
8	10,1	7,62	10,1	50	210-XX-308-41-105000	210-XX-308-41-105799	24	400
14	17,7	7,62	10,1	28	210-XX-314-41-105000	210-XX-314-41-105799	32	400
16	20,3	7,62	10,1	25	210-XX-316-41-105000	210-XX-316-41-105799	32	400
18	22,8	7,62	10,1	22	210-XX-318-41-105000	210-XX-318-41-105799	44	400
20	25,3	7,62	10,1	20	210-XX-320-41-105000	210-XX-320-41-105799	44	400
24	30,4	7,62	10,1	16	210-XX-324-41-105000	210-XX-324-41-105799	44	400
					VACUUM PAD TOP AND BOTTOM			
24	30,4	15,24	17,7	16	210-XX-624-41-105000	210-XX-624-41-105799	44	300
28	35,5	15,24	17,7	14	210-XX-628-41-105000	210-XX-628-41-105799	56	300
32	40,6	15,24	17,7	12	210-XX-632-41-105000	210-XX-632-41-105799	56	300
40	50,8	15,24	17,7	10	210-XX-640-41-105000	NOT AVAILABLE		

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,76µm Au			0,76µm Au	

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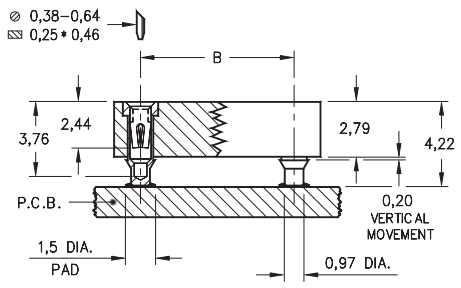
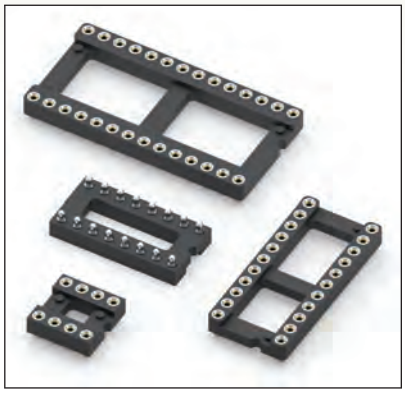
DUAL-IN-LINE SOCKETS

SERIES 114 • SURFACE MOUNT, STUB TAIL • OPEN FRAME



See page 130 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Socket pins feature closed end construction eliminating any solder/flux wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 114 uses MM #1434 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	114-XX-210-41-117000
4	5,0	7,62	10,1	100	114-XX-304-41-117000
6	7,6	7,62	10,1	67	114-XX-306-41-117000
8	10,1	7,62	10,1	50	114-XX-308-41-117000
10	12,6	7,62	10,1	40	114-XX-310-41-117000
14	17,7	7,62	10,1	28	114-XX-314-41-117000
16	20,3	7,62	10,1	25	114-XX-316-41-117000
18	22,8	7,62	10,1	22	114-XX-318-41-117000
20	25,3	7,62	10,1	20	114-XX-320-41-117000
22	27,8	7,62	10,1	18	114-XX-322-41-117000
24	30,4	7,62	10,1	16	114-XX-324-41-117000
28	35,5	7,62	10,1	14	114-XX-328-41-117000
20	25,4	10,16	12,7	20	114-XX-420-41-117000
22	27,8	10,16	12,7	18	114-XX-422-41-117000
24	30,4	10,16	12,7	16	114-XX-424-41-117000
28	35,5	10,16	12,7	14	114-XX-428-41-117000
32	40,6	10,16	12,7	12	114-XX-432-41-117000
24	30,4	15,24	17,7	16	114-XX-624-41-117000
28	35,5	15,24	17,7	14	114-XX-628-41-117000
32	40,6	15,24	17,7	12	114-XX-632-41-117000
36	45,7	15,24	17,7	11	114-XX-636-41-117000
40	50,8	15,24	17,7	10	114-XX-640-41-117000
42	53,3	15,24	17,7	9	114-XX-642-41-117000
48	60,9	15,24	17,7	8	114-XX-648-41-117000
50	63,5	15,24	17,7	8	114-XX-650-41-117000
52	66,0	15,24	17,7	7	114-XX-652-41-117000
50	63,5	22,86	25,3	8	114-XX-950-41-117000
52	66,0	22,86	25,3	7	114-XX-952-41-117000
64	81,2	22,86	25,3	6	114-XX-964-41-117000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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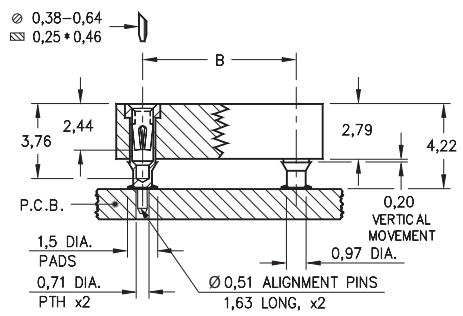
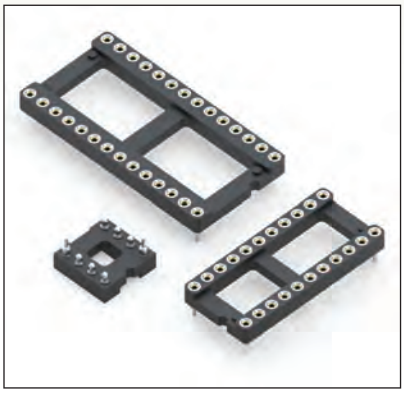
DUAL-IN-LINE SOCKETS

SERIES 113 • SURFACE MOUNT, STUB TAIL W/ ALIGNMENT PINS • OPEN FRAME



See page 130 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Two corner alignment pins (power & ground positions) permit manual placement
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 113 uses MM #1334 and #1434 pins. See pages 162 and 171
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	113-XX-210-41-117000
4	5,0	7,62	10,1	100	113-XX-304-41-117000
6	7,6	7,62	10,1	67	113-XX-306-41-117000
8	10,1	7,62	10,1	50	113-XX-308-41-117000
10	12,6	7,62	10,1	40	113-XX-310-41-117000
14	17,7	7,62	10,1	28	113-XX-314-41-117000
16	20,3	7,62	10,1	25	113-XX-316-41-117000
18	22,8	7,62	10,1	22	113-XX-318-41-117000
20	25,3	7,62	10,1	20	113-XX-320-41-117000
22	27,8	7,62	10,1	18	113-XX-322-41-117000
24	30,4	7,62	10,1	16	113-XX-324-41-117000
28	35,5	7,62	10,1	14	113-XX-328-41-117000
20	25,4	10,16	12,7	20	113-XX-420-41-117000
22	27,8	10,16	12,7	18	113-XX-422-41-117000
24	30,4	10,16	12,7	16	113-XX-424-41-117000
28	35,5	10,16	12,7	14	113-XX-428-41-117000
32	40,6	10,16	12,7	12	113-XX-432-41-117000
24	30,4	15,24	17,7	16	113-XX-624-41-117000
28	35,5	15,24	17,7	14	113-XX-628-41-117000
32	40,6	15,24	17,7	12	113-XX-632-41-117000
36	45,7	15,24	17,7	11	113-XX-636-41-117000
40	50,8	15,24	17,7	10	113-XX-640-41-117000
42	53,3	15,24	17,7	9	113-XX-642-41-117000
48	60,9	15,24	17,7	8	113-XX-648-41-117000
50	63,5	15,24	17,7	8	113-XX-650-41-117000
52	66,0	15,24	17,7	7	113-XX-652-41-117000
50	63,5	22,86	25,3	8	113-XX-950-41-117000
52	66,0	22,86	25,3	7	113-XX-952-41-117000
64	81,2	22,86	25,3	6	113-XX-964-41-117000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,25µm Au			0,25µm Au	

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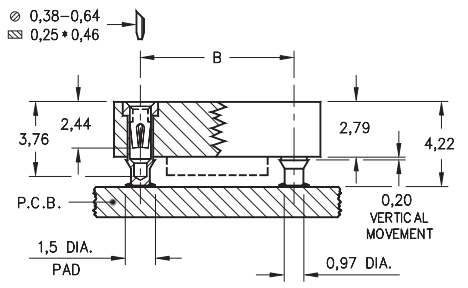
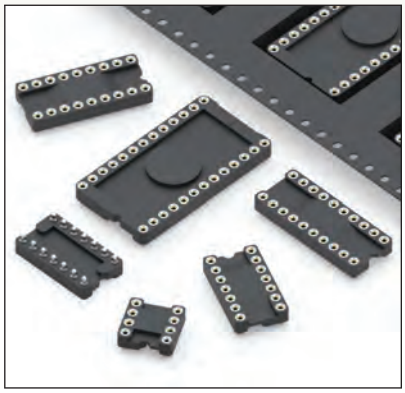
DUAL-IN-LINE SOCKETS

SERIES 214 • SURFACE MOUNT, AUTO PLACEMENT, STUB TAIL • CLOSED FRAME



See page 131 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly screened solder paste
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 214 uses MM #1434 pins. See page 162 for details
- High temp. Nylon 46 insulator is suitable for all surface mount soldering processes. Closed frame insulator is vision system compatible
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel
					VACUUM PAD TOP SURFACE ONLY			
6	7,6	7,62	10,1	67	214-XX-306-01-670800	214-XX-306-01-670799	16	750
8	10,1	7,62	10,1	50	214-XX-308-01-670800	214-XX-308-01-670799	16	1000
14	17,7	7,62	10,1	28	214-XX-314-01-670800	214-XX-314-01-670799	32	750
16	20,3	7,62	10,1	25	214-XX-316-01-670800	214-XX-316-01-670799	32	750
18	22,8	7,62	10,1	22	214-XX-318-01-670800	214-XX-318-01-670799	44	750
20	25,3	7,62	10,1	20	214-XX-320-01-670800	214-XX-320-01-670799	44	750
					VACUUM PAD TOP AND BOTTOM			
24	30,4	15,24	17,7	16	214-XX-624-01-670800	214-XX-624-01-670799	44	400
28	35,5	15,24	17,7	14	214-XX-628-01-670800	214-XX-628-01-670799	56	400
32	40,6	15,24	17,7	12	214-XX-632-01-670800	214-XX-632-01-670799	56	400
40	50,8	15,24	17,7	10	214-XX-640-01-670800	NOT AVAILABLE		

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				2,54µm Sn/Pb			2,54µm Sn

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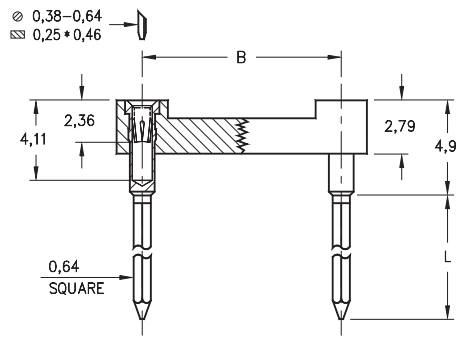
DUAL-IN-LINE SOCKETS

SERIES 121, 122, 123, 124 • 1 - 4 LEVEL WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Solderless wrapost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 6,6 (1 Level Wrapost)	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)	L = 16,0 (4 Level Wrapost)
10	12,6	5,08	7,6	40	121-XX-210-41-001000	122-XX-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000
								43 or 93 Plating Code ONLY
4	5,0	7,62	10,1	102	121-XX-304-41-001000	122-XX-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000
6	7,6	7,62	10,1	67	121-XX-306-41-001000	122-XX-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000
8	10,1	7,62	10,1	50	121-XX-308-41-001000	122-XX-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000
10	12,6	7,62	10,1	40	121-XX-310-41-001000	122-XX-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000
14	17,7	7,62	10,1	28	121-XX-314-41-001000	122-XX-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000
16	20,3	7,62	10,1	25	121-XX-316-41-001000	122-XX-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000
18	22,8	7,62	10,1	22	121-XX-318-41-001000	122-XX-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000
20	25,3	7,62	10,1	20	121-XX-320-41-001000	122-XX-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000
22	27,8	7,62	10,1	18	121-XX-322-41-001000	122-XX-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000
24	30,4	7,62	10,1	16	121-XX-324-41-001000	122-XX-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000
28	35,5	7,62	10,1	14	121-XX-328-41-001000	122-XX-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000
								43 or 93 Plating Code ONLY
20	25,4	10,16	12,7	20	121-XX-420-41-001000	122-XX-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000
22	27,8	10,16	12,7	18	121-XX-422-41-001000	122-XX-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000
24	30,4	10,16	12,7	16	121-XX-424-41-001000	122-XX-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000
28	35,5	10,16	12,7	14	121-XX-428-41-001000	122-XX-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000
32	40,6	10,16	12,7	12	121-XX-432-41-001000	122-XX-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000
								43 or 93 Plating Code ONLY
24	30,4	15,24	17,7	16	121-XX-624-41-001000	122-XX-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000
28	35,5	15,24	17,7	14	121-XX-628-41-001000	122-XX-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000
32	40,6	15,24	17,7	12	121-XX-632-41-001000	122-XX-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000
36	45,7	15,24	17,7	11	121-XX-636-41-001000	122-XX-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000
40	50,8	15,24	17,7	10	121-XX-640-41-001000	122-XX-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000
42	53,3	15,24	17,7	9	121-XX-642-41-001000	122-XX-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000
48	60,9	15,24	17,7	8	121-XX-648-41-001000	122-XX-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000
50	63,5	15,24	17,7	8	121-XX-650-41-001000	122-XX-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000
52	66,0	15,24	17,7	7	121-XX-652-41-001000	122-XX-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000
								43 or 93 Plating Code ONLY
50	63,5	22,86	25,3	8	121-XX-950-41-001000	122-XX-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000
52	66,0	22,86	25,3	7	121-XX-952-41-001000	122-XX-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000
64	81,2	22,86	25,3	6	121-XX-964-41-001000	122-XX-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000

SPECIFY PLATING CODE XX =	13 ◆	91	93	41 ◆	43 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	Au Flash

XX=Plating Code See to Left

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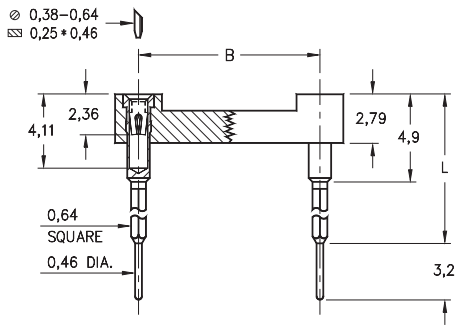
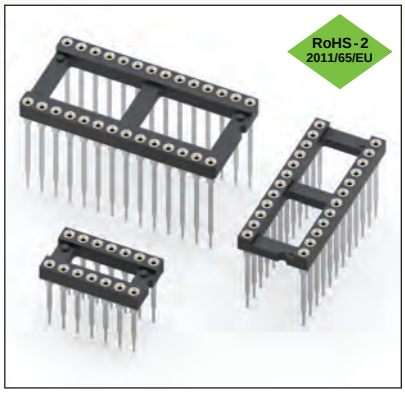
DUAL-IN-LINE SOCKETS

SERIES 126 • PLUGGABLE WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Combines one through three level wrapost with pluggable solder tails
- Suitable for use as an interconnect socket with intermediate wire wrapped connections
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 126 uses MM #2601, #2602 and #2603 pins. See page 199 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 10,8 (1 Level Wrapost = 5,89)	L = 13,79 (2 Level Wrapost = 8,89)	L = 16,79 (3 Level Wrapost = 11,9)
10	12,6	5,08	7,6	40	126-XX-210-41-001000	126-XX-210-41-002000	126-XX-210-41-003000
4	5,0	7,62	10,1	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000
6	7,6	7,62	10,1	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000
8	10,1	7,62	10,1	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000
10	12,6	7,62	10,1	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000
14	17,7	7,62	10,1	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000
16	20,3	7,62	10,1	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000
18	22,8	7,62	10,1	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000
20	25,3	7,62	10,1	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000
22	27,8	7,62	10,1	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000
24	30,4	7,62	10,1	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000
28	35,5	7,62	10,1	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000
20	25,4	10,16	12,7	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000
22	27,8	10,16	12,7	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000
24	30,4	10,16	12,7	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000
28	35,5	10,16	12,7	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000
32	40,6	10,16	12,7	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000
24	30,4	15,24	17,7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000
28	35,5	15,24	17,7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000
32	40,6	15,24	17,7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000
36	45,7	15,24	17,7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000
40	50,8	15,24	17,7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000
42	53,3	15,24	17,7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000
48	60,9	15,24	17,7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000
50	63,5	15,24	17,7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000
52	66,0	15,24	17,7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000
50	63,5	22,86	25,3	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000
52	66,0	22,86	25,3	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000
64	81,2	22,86	25,3	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	XX=Plating Code See to Left
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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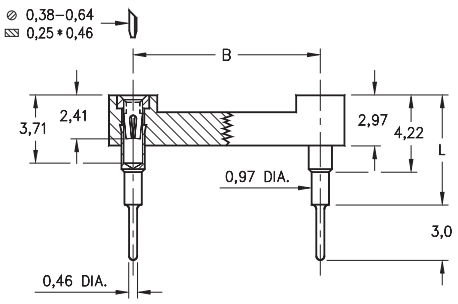
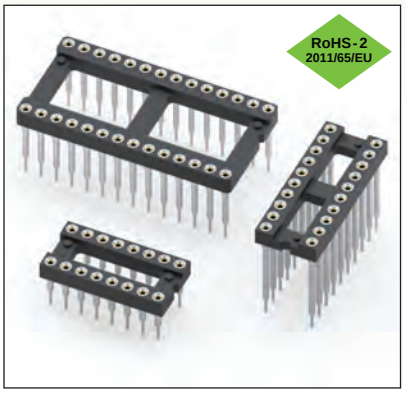
DUAL-IN-LINE SOCKETS

SERIES 116 • ELEVATED • OPEN FRAME



See page 130 for Insulator Details

- Ideal for raised component requirements and stacking of PCBs
- Sockets are XY stackable
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 116 uses MM #0153-X pins. See page 167 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

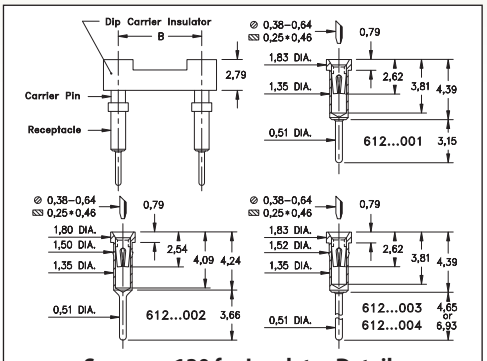
Total number of pins	A	B	C	Quantity per tube	L = 6,0 (#0153-1 pin)	L = 8,0 (#0153-2 pin)	L = 10,21 (#0153-3 pin)	L = 11,99 (#0153-4 pin)	L = 15,09 (#0153-5 pin)
10	12,6	5,08	7,6	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000
4	5,0	7,62	10,1	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000
6	7,6	7,62	10,1	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000
8	10,1	7,62	10,1	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000
10	12,6	7,62	10,1	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000
14	17,7	7,62	10,1	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000
16	20,3	7,62	10,1	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000
18	22,8	7,62	10,1	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000
20	25,3	7,62	10,1	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000
22	27,8	7,62	10,1	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000
24	30,4	7,62	10,1	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000
28	35,5	7,62	10,1	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000
20	25,4	10,16	12,7	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000
22	27,8	10,16	12,7	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000
24	30,4	10,16	12,7	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000
28	35,5	10,16	12,7	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000
32	40,6	10,16	12,7	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000
24	30,4	15,24	17,7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000
28	35,5	15,24	17,7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000
32	40,6	15,24	17,7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000
36	45,7	15,24	17,7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000
40	50,8	15,24	17,7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000
42	53,3	15,24	17,7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000
48	60,9	15,24	17,7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000
50	63,5	15,24	17,7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000
52	66,0	15,24	17,7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000
50	63,5	22,86	25,3	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000
52	66,0	22,86	25,3	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000
64	81,2	22,86	25,3	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000

SPECIFY PLATING CODE XX=	91	93	41 ◆	43 ◆	47 ◆
Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	Au Flash

XX=Plating Code See to Left

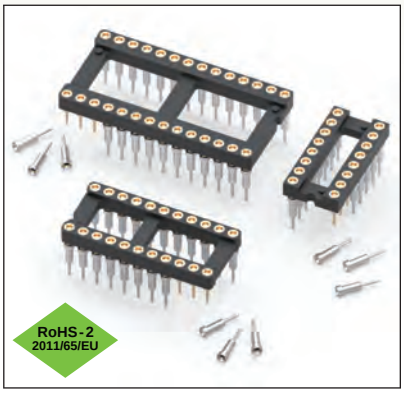
DUAL-IN-LINE SOCKETS

SERIES 612 • CARRIER TYPE, SOLDER TAIL • OPEN FRAME



See page 130 for Insulator Details

- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 612 uses MM #0255, #8855, #0135 or #0132 pins. See pages 165 and 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tail Length = 3,15 (0,56 Min. Mounting Hole)	Tail Length = 3,66 (0,56 Min. Mounting Hole)	Tail Length = 4,65 (0,56 Min. Mounting Hole)	Tail Length = 6,93 (0,56 Min. Mounting Hole)
10	12,6	5,08	7,6	40	612-XX-210-41-001000	612-XX-210-41-002000	612-XX-210-41-003000	612-XX-210-41-004000
4	5,0	7,62	10,1	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000
6	7,6	7,62	10,1	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000
8	10,1	7,62	10,1	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000
10	12,6	7,62	10,1	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000
14	17,7	7,62	10,1	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000
16	20,3	7,62	10,1	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000
18	22,8	7,62	10,1	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000
20	25,3	7,62	10,1	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000
22	27,8	7,62	10,1	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000
24	30,4	7,62	10,1	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000
28	35,5	7,62	10,1	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000
20	25,4	10,16	12,7	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000
22	27,8	10,16	12,7	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000
24	30,4	10,16	12,7	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000
28	35,5	10,16	12,7	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000
32	40,6	10,16	12,7	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000
24	30,4	15,24	17,7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000
28	35,5	15,24	17,7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000
32	40,6	15,24	17,7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000
36	45,7	15,24	17,7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000
40	50,8	15,24	17,7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000
42	53,3	15,24	17,7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000
48	60,9	15,24	17,7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000
50	63,5	15,24	17,7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000
52	66,0	15,24	17,7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000
50	63,5	22,86	25,3	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000
52	66,0	22,86	25,3	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000
64	81,2	22,86	25,3	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000

SPECIFY PLATING CODE XX =	13 ◆	91	93	41 ◆	43 ◆
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

XX=Plating Code See to Left

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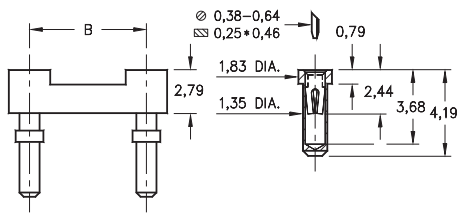
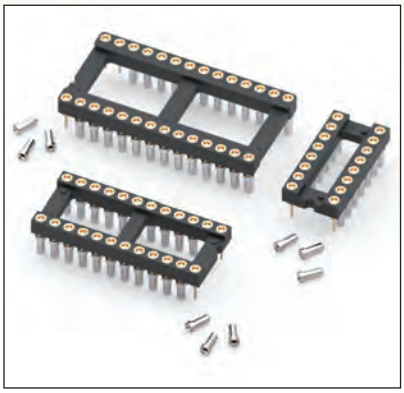
DUAL-IN-LINE SOCKETS

SERIES 614...001 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 614 uses MM #1401 pins. See page 170 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	614-XX-210-41-001000
4	5,0	7,62	10,1	102	614-XX-304-41-001000
6	7,6	7,62	10,1	67	614-XX-306-41-001000
8	10,1	7,62	10,1	50	614-XX-308-41-001000
10	12,6	7,62	10,1	40	614-XX-310-41-001000
14	17,7	7,62	10,1	28	614-XX-314-41-001000
16	20,3	7,62	10,1	25	614-XX-316-41-001000
18	22,8	7,62	10,1	22	614-XX-318-41-001000
20	25,3	7,62	10,1	20	614-XX-320-41-001000
22	27,8	7,62	10,1	18	614-XX-322-41-001000
24	30,4	7,62	10,1	16	614-XX-324-41-001000
28	35,5	7,62	10,1	14	614-XX-328-41-001000
20	25,4	10,16	12,7	20	614-XX-420-41-001000
22	27,8	10,16	12,7	18	614-XX-422-41-001000
24	30,4	10,16	12,7	16	614-XX-424-41-001000
28	35,5	10,16	12,7	14	614-XX-428-41-001000
32	40,6	10,16	12,7	12	614-XX-432-41-001000
24	30,4	15,24	17,7	16	614-XX-624-41-001000
28	35,5	15,24	17,7	14	614-XX-628-41-001000
32	40,6	15,24	17,7	12	614-XX-632-41-001000
36	45,7	15,24	17,7	11	614-XX-636-41-001000
40	50,8	15,24	17,7	10	614-XX-640-41-001000
42	53,3	15,24	17,7	9	614-XX-642-41-001000
48	60,9	15,24	17,7	8	614-XX-648-41-001000
50	63,5	15,24	17,7	8	614-XX-650-41-001000
52	66,0	15,24	17,7	7	614-XX-652-41-001000
50	63,5	22,86	25,3	8	614-XX-950-41-001000
52	66,0	22,86	25,3	7	614-XX-952-41-001000
64	81,2	22,86	25,3	6	614-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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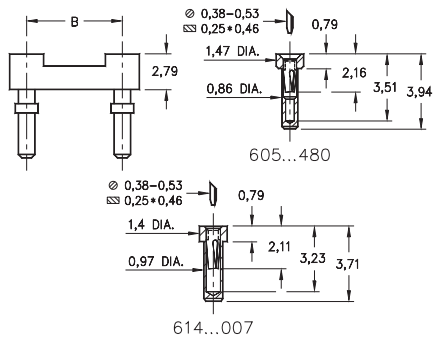
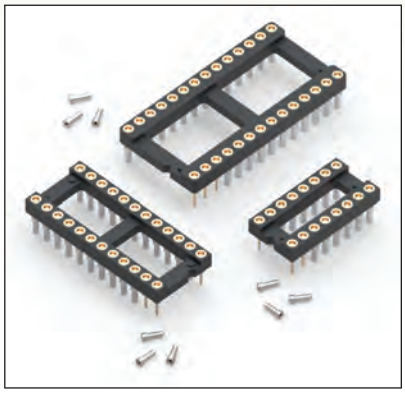
DUAL-IN-LINE SOCKETS

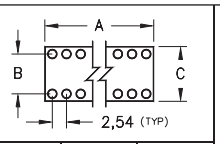
SERIES 605, 614 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Low profile receptacles sit only 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 605 and 614 use MM #1407 & #0548 pins. See page 157 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details





ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Length = 3,71 (0,99 Min. Mounting Hole)	Length = 3,94 (0,89 Min. Mounting Hole)
10	12,6	5,08	7,6	40	614-XX-210-31-007000	605-XX-210-11-480000
4	5,0	7,62	10,1	102	614-XX-304-31-007000	605-XX-304-11-480000
6	7,6	7,62	10,1	68	614-XX-306-31-007000	605-XX-306-11-480000
8	10,1	7,62	10,1	50	614-XX-308-31-007000	605-XX-308-11-480000
10	12,6	7,62	10,1	40	614-XX-310-31-007000	605-XX-310-11-480000
14	17,7	7,62	10,1	28	614-XX-314-31-007000	605-XX-314-11-480000
16	20,3	7,62	10,1	25	614-XX-316-31-007000	605-XX-316-11-480000
18	22,8	7,62	10,1	22	614-XX-318-31-007000	605-XX-318-11-480000
20	25,3	7,62	10,1	20	614-XX-320-31-007000	605-XX-320-11-480000
22	27,8	7,62	10,1	18	614-XX-322-31-007000	605-XX-322-11-480000
24	30,4	7,62	10,1	16	614-XX-324-31-007000	605-XX-324-11-480000
28	35,5	7,62	10,1	14	614-XX-328-31-007000	605-XX-328-11-480000
20	25,4	10,16	12,7	20	614-XX-420-31-007000	605-XX-420-11-480000
22	27,8	10,16	12,7	18	614-XX-422-31-007000	605-XX-422-11-480000
24	30,4	10,16	12,7	16	614-XX-424-31-007000	605-XX-424-11-480000
28	35,5	10,16	12,7	14	614-XX-428-31-007000	605-XX-428-11-480000
32	40,6	10,16	12,7	12	614-XX-432-31-007000	605-XX-432-11-480000
24	30,4	15,24	17,7	16	614-XX-624-31-007000	605-XX-624-11-480000
28	35,5	15,24	17,7	14	614-XX-628-31-007000	605-XX-628-11-480000
32	40,6	15,24	17,7	12	614-XX-632-31-007000	605-XX-632-11-480000
36	45,7	15,24	17,7	11	614-XX-636-31-007000	605-XX-636-11-480000
40	50,8	15,24	17,7	10	614-XX-640-31-007000	605-XX-640-11-480000
42	53,3	15,24	17,7	9	614-XX-642-31-007000	605-XX-642-11-480000
48	60,9	15,24	17,7	8	614-XX-648-31-007000	605-XX-648-11-480000
50	63,5	15,24	17,7	8	614-XX-650-31-007000	605-XX-650-11-480000
52	66,0	15,24	17,7	7	614-XX-652-31-007000	605-XX-652-11-480000
50	63,5	22,86	25,3	8	614-XX-950-31-007000	605-XX-950-11-480000
52	66,0	22,86	25,3	7	614-XX-952-31-007000	605-XX-952-11-480000
64	81,2	22,86	25,3	6	614-XX-964-31-007000	605-XX-964-11-480000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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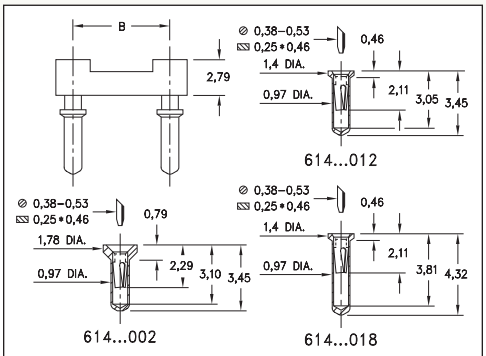
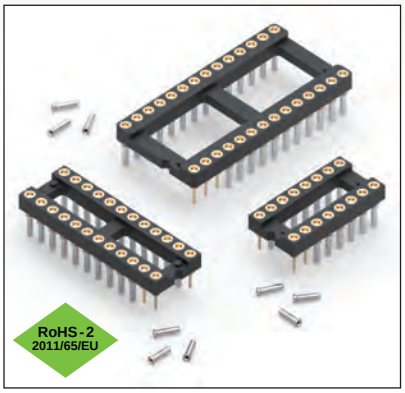
DUAL-IN-LINE SOCKETS

SERIES 614 • CARRIER TYPE, ULTRA LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Ultra low profile receptacles sit only 0,46 to 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 614 uses MM #0552-1, #0442-0, #0552-2 pins. See pages 157 and 158 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Length = 3,45 (1,0 Min. Mounting Hole)	Length = 3,45 (1,0 Min. Mounting Hole)	Length = 4,32 (1,0 Min. Mounting Hole)
10	12,6	5,08	7,6	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000
4	5,0	7,62	10,1	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000
6	7,6	7,62	10,1	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000
8	10,1	7,62	10,1	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000
10	12,6	7,62	10,1	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000
14	17,7	7,62	10,1	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000
16	20,3	7,62	10,1	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000
18	22,8	7,62	10,1	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000
20	25,3	7,62	10,1	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000
22	27,8	7,62	10,1	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000
24	30,4	7,62	10,1	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000
28	35,5	7,62	10,1	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000
20	25,4	10,16	12,7	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000
22	27,8	10,16	12,7	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000
24	30,4	10,16	12,7	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000
28	35,5	10,16	12,7	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000
32	40,6	10,16	12,7	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000
24	30,4	15,24	17,7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000
28	35,5	15,24	17,7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000
32	40,6	15,24	17,7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000
36	45,7	15,24	17,7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000
40	50,8	15,24	17,7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000
42	53,3	15,24	17,7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000
48	60,9	15,24	17,7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000
50	63,5	15,24	17,7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000
52	66,0	15,24	17,7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000
50	63,5	22,86	25,3	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000
52	66,0	22,86	25,3	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000
64	81,2	22,86	25,3	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	XX=Plating Code See to Left
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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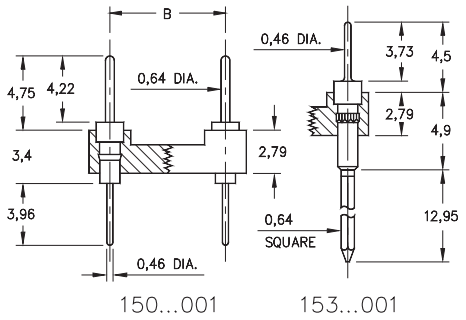
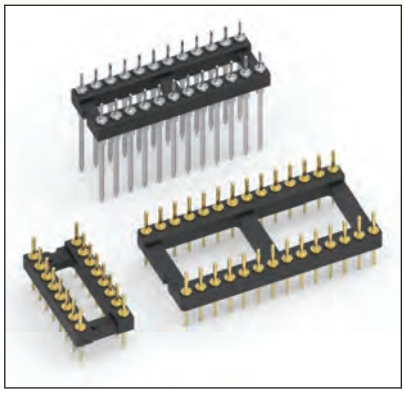
DUAL-IN-LINE HEADERS

SERIES 150, 153 • SOLDER TAIL AND WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 150 DIL Headers are equipped with 0,64 dia. pins MM #0290. See page 215 for details
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 227 for details
- Both series have 0,46 dia. solder tails which are pluggable into standard contacts
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	3 Level Wrapost
10	12,6	5,08	7,6	40	150-XX-210-00-001000	153-XX-210-00-001000
4	5,0	7,62	10,1	102	150-XX-304-00-001000	153-XX-304-00-001000
6	7,6	7,62	10,1	67	150-XX-306-00-001000	153-XX-306-00-001000
8	10,1	7,62	10,1	50	150-XX-308-00-001000	153-XX-308-00-001000
10	12,6	7,62	10,1	40	150-XX-310-00-001000	153-XX-310-00-001000
14	17,7	7,62	10,1	29	150-XX-314-00-001000	153-XX-314-00-001000
16	20,3	7,62	10,1	25	150-XX-316-00-001000	153-XX-316-00-001000
18	22,8	7,62	10,1	22	150-XX-318-00-001000	153-XX-318-00-001000
20	25,3	7,62	10,1	20	150-XX-320-00-001000	153-XX-320-00-001000
22	27,8	7,62	10,1	18	150-XX-322-00-001000	153-XX-322-00-001000
24	30,4	7,62	10,1	16	150-XX-324-00-001000	153-XX-324-00-001000
28	35,5	7,62	10,1	14	150-XX-328-00-001000	153-XX-328-00-001000
20	25,4	10,16	12,7	20	150-XX-420-00-001000	153-XX-420-00-001000
22	27,8	10,16	12,7	18	150-XX-422-00-001000	153-XX-422-00-001000
24	30,4	10,16	12,7	16	150-XX-424-00-001000	153-XX-424-00-001000
28	35,5	10,16	12,7	14	150-XX-428-00-001000	153-XX-428-00-001000
32	40,6	10,16	12,7	12	150-XX-432-00-001000	153-XX-432-00-001000
24	30,4	15,24	17,7	16	150-XX-624-00-001000	153-XX-624-00-001000
28	35,5	15,24	17,7	14	150-XX-628-00-001000	153-XX-628-00-001000
32	40,6	15,24	17,7	12	150-XX-632-00-001000	153-XX-632-00-001000
36	45,7	15,24	17,7	11	150-XX-636-00-001000	153-XX-636-00-001000
40	50,8	15,24	17,7	10	150-XX-640-00-001000	153-XX-640-00-001000
42	53,3	15,24	17,7	9	150-XX-642-00-001000	153-XX-642-00-001000
48	60,9	15,24	17,7	8	150-XX-648-00-001000	153-XX-648-00-001000
50	63,5	15,24	17,7	8	150-XX-650-00-001000	153-XX-650-00-001000
52	66,0	15,24	17,7	7	150-XX-652-00-001000	153-XX-652-00-001000
50	63,5	22,86	25,3	8	150-XX-950-00-001000	153-XX-950-00-001000
52	66,0	22,86	25,3	7	150-XX-952-00-001000	153-XX-952-00-001000
64	81,2	22,86	25,3	6	150-XX-964-00-001000	153-XX-964-00-001000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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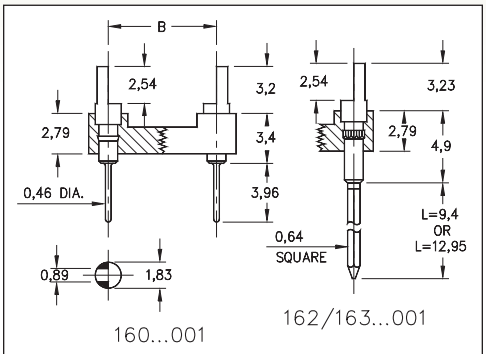
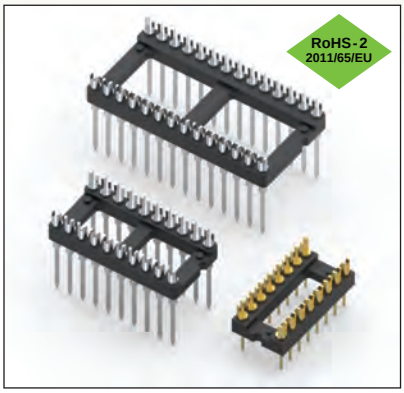
DUAL-IN-LINE HEADERS

SERIES 160, 162, 163 • SLOTTED, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads
- Series 160 terminations are pluggable 0,46 dia. solder tails MM #0282, See page 216 for details. Series 162 and 163 terminations are two or three level wraposts MM #1106. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

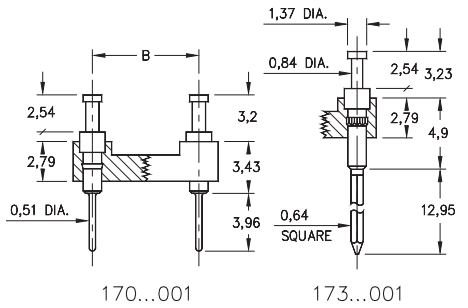
Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
10	12,6	5,08	7,6	41	160-XX-210-00-001000	162-XX-210-00-001000	163-XX-210-00-001000
4	5,0	7,62	10,1	102	160-XX-304-00-001000	162-XX-304-00-001000	163-XX-304-00-001000
6	7,6	7,62	10,1	67	160-XX-306-00-001000	162-XX-306-00-001000	163-XX-306-00-001000
8	10,1	7,62	10,1	50	160-XX-308-00-001000	162-XX-308-00-001000	163-XX-308-00-001000
10	12,6	7,62	10,1	40	160-XX-310-00-001000	162-XX-310-00-001000	163-XX-310-00-001000
14	17,7	7,62	10,1	28	160-XX-314-00-001000	162-XX-314-00-001000	163-XX-314-00-001000
16	20,3	7,62	10,1	25	160-XX-316-00-001000	162-XX-316-00-001000	163-XX-316-00-001000
18	22,8	7,62	10,1	22	160-XX-318-00-001000	162-XX-318-00-001000	163-XX-318-00-001000
20	25,3	7,62	10,1	20	160-XX-320-00-001000	162-XX-320-00-001000	163-XX-320-00-001000
22	27,8	7,62	10,1	18	160-XX-322-00-001000	162-XX-322-00-001000	163-XX-322-00-001000
24	30,4	7,62	10,1	16	160-XX-324-00-001000	162-XX-324-00-001000	163-XX-324-00-001000
28	35,5	7,62	10,1	14	160-XX-328-00-001000	162-XX-328-00-001000	163-XX-328-00-001000
20	25,4	10,16	12,7	20	160-XX-420-00-001000	162-XX-420-00-001000	163-XX-420-00-001000
22	27,8	10,16	12,7	18	160-XX-422-00-001000	162-XX-422-00-001000	163-XX-422-00-001000
24	30,4	10,16	12,7	16	160-XX-424-00-001000	162-XX-424-00-001000	163-XX-424-00-001000
28	35,5	10,16	12,7	14	160-XX-428-00-001000	162-XX-428-00-001000	163-XX-428-00-001000
32	40,6	10,16	12,7	12	160-XX-432-00-001000	162-XX-432-00-001000	163-XX-432-00-001000
24	30,4	15,24	17,7	16	160-XX-624-00-001000	162-XX-624-00-001000	163-XX-624-00-001000
28	35,5	15,24	17,7	14	160-XX-628-00-001000	162-XX-628-00-001000	163-XX-628-00-001000
32	40,6	15,24	17,7	12	160-XX-632-00-001000	162-XX-632-00-001000	163-XX-632-00-001000
36	45,7	15,24	17,7	11	160-XX-636-00-001000	162-XX-636-00-001000	163-XX-636-00-001000
40	50,8	15,24	17,7	10	160-XX-640-00-001000	162-XX-640-00-001000	163-XX-640-00-001000
42	53,3	15,24	17,7	9	160-XX-642-00-001000	162-XX-642-00-001000	163-XX-642-00-001000
48	60,9	15,24	17,7	8	160-XX-648-00-001000	162-XX-648-00-001000	163-XX-648-00-001000
50	63,5	15,24	17,7	8	160-XX-650-00-001000	162-XX-650-00-001000	163-XX-650-00-001000
52	66,0	15,24	17,7	7	160-XX-652-00-001000	162-XX-652-00-001000	163-XX-652-00-001000
50	63,5	22,86	25,3	8	160-XX-950-00-001000	162-XX-950-00-001000	163-XX-950-00-001000
52	66,0	22,86	25,3	7	160-XX-952-00-001000	162-XX-952-00-001000	163-XX-952-00-001000
64	81,2	22,86	25,3	6	160-XX-964-00-001000	162-XX-964-00-001000	163-XX-964-00-001000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

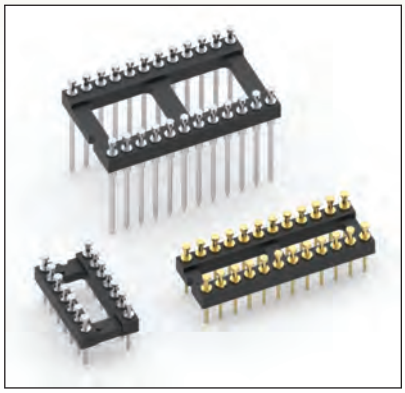
DUAL-IN-LINE HEADERS

SERIES 170, 173 • TURRET, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 170 &173 DIL headers are equipped with turret heads for wiring applications
- Series 170 terminations are pluggable 0,51 dia. solder tails MM #0700, See page 216 for details. Series 173 terminations are three level wraposts MM #0730. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	3 Level Wrapost
10	12,6	5,08	7,6	41	170-XX-210-00-001000	173-XX-210-00-001000
4	5,0	7,62	10,1	102	170-XX-304-00-001000	173-XX-304-00-001000
6	7,6	7,62	10,1	67	170-XX-306-00-001000	173-XX-306-00-001000
8	10,1	7,62	10,1	50	170-XX-308-00-001000	173-XX-308-00-001000
10	12,6	7,62	10,1	40	170-XX-310-00-001000	173-XX-310-00-001000
14	17,7	7,62	10,1	28	170-XX-314-00-001000	173-XX-314-00-001000
16	20,3	7,62	10,1	25	170-XX-316-00-001000	173-XX-316-00-001000
18	22,8	7,62	10,1	22	170-XX-318-00-001000	173-XX-318-00-001000
20	25,3	7,62	10,1	20	170-XX-320-00-001000	173-XX-320-00-001000
22	27,8	7,62	10,1	18	170-XX-322-00-001000	173-XX-322-00-001000
24	30,4	7,62	10,1	16	170-XX-324-00-001000	173-XX-324-00-001000
28	35,5	7,62	10,1	14	170-XX-328-00-001000	173-XX-328-00-001000
20	25,4	10,16	12,7	20	170-XX-420-00-001000	173-XX-420-00-001000
22	27,8	10,16	12,7	18	170-XX-422-00-001000	173-XX-422-00-001000
24	30,4	10,16	12,7	16	170-XX-424-00-001000	173-XX-424-00-001000
28	35,5	10,16	12,7	14	170-XX-428-00-001000	173-XX-428-00-001000
32	40,6	10,16	12,7	12	170-XX-432-00-001000	173-XX-432-00-001000
24	30,4	15,24	17,7	16	170-XX-624-00-001000	173-XX-624-00-001000
28	35,5	15,24	17,7	14	170-XX-628-00-001000	173-XX-628-00-001000
32	40,6	15,24	17,7	12	170-XX-632-00-001000	173-XX-632-00-001000
36	45,7	15,24	17,7	11	170-XX-636-00-001000	173-XX-636-00-001000
40	50,8	15,24	17,7	10	170-XX-640-00-001000	173-XX-640-00-001000
42	53,3	15,24	17,7	9	170-XX-642-00-001000	173-XX-642-00-001000
48	60,9	15,24	17,7	8	170-XX-648-00-001000	173-XX-648-00-001000
50	63,5	15,24	17,7	8	170-XX-650-00-001000	173-XX-650-00-001000
52	66,0	15,24	17,7	7	170-XX-652-00-001000	173-XX-652-00-001000
50	63,5	22,86	25,3	8	170-XX-950-00-001000	173-XX-950-00-001000
52	66,0	22,86	25,3	7	170-XX-952-00-001000	173-XX-952-00-001000
64	81,2	22,86	25,3	6	170-XX-964-00-001000	173-XX-964-00-001000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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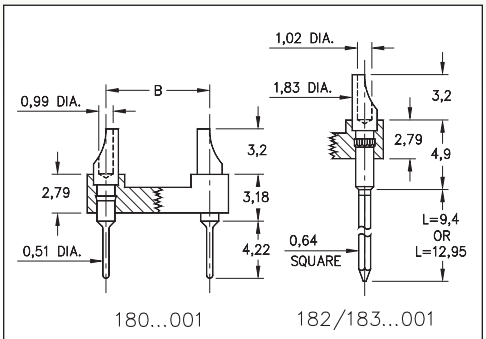
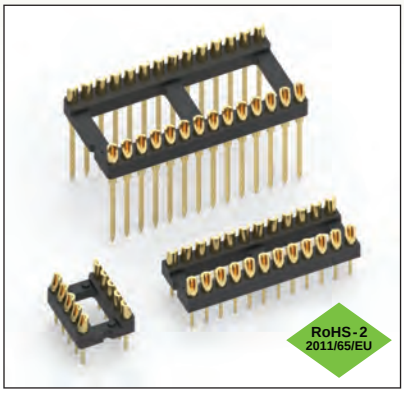
DUAL-IN-LINE HEADERS

SERIES 180, 182, 183 • SOLDER CUP, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications
- Series 180 terminations are pluggable 0,51 dia. solder tails MM #8000, See page 216 for details. Series 182 and 183 terminations are two or three level wraposts MM #8301. See page 227 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
10	12,6	5,08	7,6	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000
4	5,0	7,62	10,1	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000
6	7,6	7,62	10,1	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000
8	10,1	7,62	10,1	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000
10	12,6	7,62	10,1	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000
14	17,7	7,62	10,1	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000
16	20,3	7,62	10,1	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000
18	22,8	7,62	10,1	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000
20	25,3	7,62	10,1	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000
22	27,8	7,62	10,1	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000
24	30,4	7,62	10,1	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000
28	35,5	7,62	10,1	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000
20	25,4	10,16	12,7	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000
22	27,8	10,16	12,7	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000
24	30,4	10,16	12,7	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000
28	35,5	10,16	12,7	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000
32	40,6	10,16	12,7	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000
24	30,4	15,24	17,7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000
28	35,5	15,24	17,7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000
32	40,6	15,24	17,7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000
36	45,7	15,24	17,7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000
40	50,8	15,24	17,7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000
42	53,3	15,24	17,7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000
48	60,9	15,24	17,7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000
50	63,5	15,24	17,7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000
52	66,0	15,24	17,7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000
50	63,5	22,86	25,3	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000
52	66,0	22,86	25,3	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000
64	81,2	22,86	25,3	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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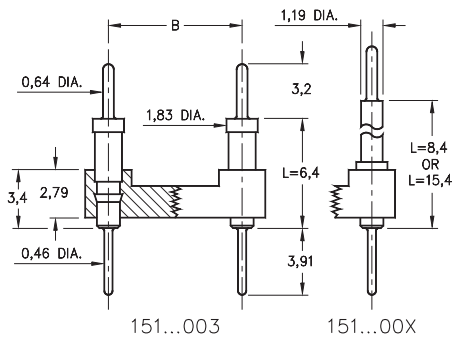
DUAL-IN-LINE HEADERS

SERIES 151...003, 004, 005 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 151 DIL Headers combine 0,64 dia. tails with pluggable 0,46 dia. solder tails
- Series:
  151...003 uses MM #5503 pins
  151...004 uses MM #5504 pins
  151...005 uses MM #5505 pins
  See page 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000
4	5,0	7,62	10,1	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000
6	7,6	7,62	10,1	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000
8	10,1	7,62	10,1	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000
10	12,6	7,62	10,1	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000
14	17,7	7,62	10,1	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000
16	20,3	7,62	10,1	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000
18	22,8	7,62	10,1	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000
20	25,3	7,62	10,1	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000
22	27,8	7,62	10,1	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000
24	30,4	7,62	10,1	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000
28	35,5	7,62	10,1	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000
20	25,4	10,16	12,7	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000
22	27,8	10,16	12,7	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000
24	30,4	10,16	12,7	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000
28	35,5	10,16	12,7	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000
32	40,6	10,16	12,7	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000
24	30,4	15,24	17,7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000
28	35,5	15,24	17,7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000
32	40,6	15,24	17,7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000
36	45,7	15,24	17,7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000
40	50,8	15,24	17,7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000
42	53,3	15,24	17,7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000
48	60,9	15,24	17,7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000
50	63,5	15,24	17,7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000
52	66,0	15,24	17,7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000
50	63,5	22,86	25,3	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000
52	66,0	22,86	25,3	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000
64	81,2	22,86	25,3	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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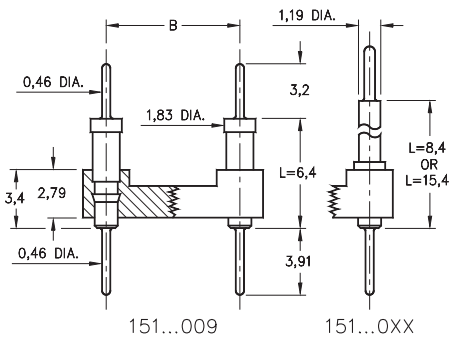
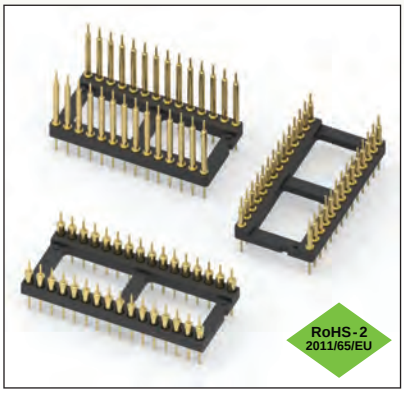
DUAL-IN-LINE HEADERS

SERIES 151...009, 010, 011 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 151 DIL Headers feature 0,46 dia. solder tails at both ends making these headers entirely pluggable
- Series:
  151...009 uses MM #5509 pins
  151...010 uses MM #5510 pins
  151...011 uses MM #5511 pins
  See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

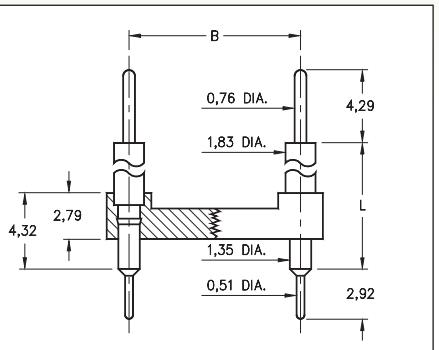
Total number of pins	A	B	C	Quantity per tube	L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000
4	5,0	7,62	10,1	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000
6	7,6	7,62	10,1	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000
8	10,1	7,62	10,1	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000
10	12,6	7,62	10,1	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000
14	17,7	7,62	10,1	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000
16	20,3	7,62	10,1	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000
18	22,8	7,62	10,1	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000
20	25,3	7,62	10,1	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000
22	27,8	7,62	10,1	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000
24	30,4	7,62	10,1	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000
28	35,5	7,62	10,1	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000
20	25,4	10,16	12,7	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000
22	27,8	10,16	12,7	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000
24	30,4	10,16	12,7	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000
28	35,5	10,16	12,7	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000
32	40,6	10,16	12,7	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000
24	30,4	15,24	17,7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000
28	35,5	15,24	17,7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000
32	40,6	15,24	17,7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000
36	45,7	15,24	17,7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000
40	50,8	15,24	17,7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000
42	53,3	15,24	17,7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000
48	60,9	15,24	17,7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000
50	63,5	15,24	17,7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000
52	66,0	15,24	17,7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000
50	63,5	22,86	25,3	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000
52	66,0	22,86	25,3	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000
64	81,2	22,86	25,3	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

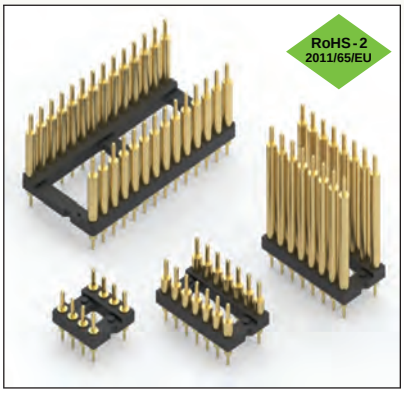
DUAL-IN-LINE HEADERS

SERIES 134 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 134 DIL Headers combine 0,76 diameter pins with pluggable 0,51 diameter solder tails
- Series:
  134...020 uses MM #3402 pins
  134...010 uses MM #3401 pins
  134...050 uses MM #3405 pins
  134...000 uses MM #3400 pins
  134...100 uses MM #3410 pins
  See page 215 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 4,83	L = 5,99	L = 8,0	L = 15,37	L = 27,18
10	12,6	5,08	7,6	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000	134-10-210-00-000000	134-10-210-00-100000
4	5,0	7,62	10,1	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000
6	7,6	7,62	10,1	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000
8	10,1	7,62	10,1	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000
10	12,6	7,62	10,1	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000
14	17,7	7,62	10,1	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000
16	20,3	7,62	10,1	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000
18	22,8	7,62	10,1	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000
20	25,3	7,62	10,1	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000
22	27,8	7,62	10,1	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000
24	30,4	7,62	10,1	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000
28	35,5	7,62	10,1	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000
20	25,4	10,16	12,7	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000
22	27,8	10,16	12,7	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000
24	30,4	10,16	12,7	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000
28	35,5	10,16	12,7	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000
32	40,6	10,16	12,7	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000
24	30,4	15,24	17,7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000
28	35,5	15,24	17,7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000
32	40,6	15,24	17,7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000
36	45,7	15,24	17,7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000
40	50,8	15,24	17,7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000
42	53,3	15,24	17,7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000
48	60,9	15,24	17,7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000
50	63,5	15,24	17,7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000
52	66,0	15,24	17,7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000
50	63,5	22,86	25,3	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000
52	66,0	22,86	25,3	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000
64	81,2	22,86	25,3	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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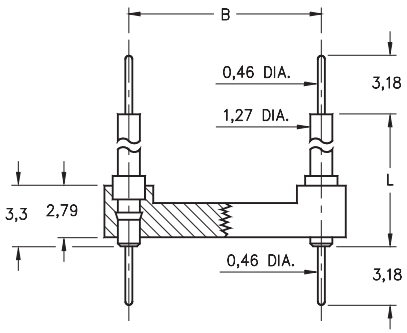
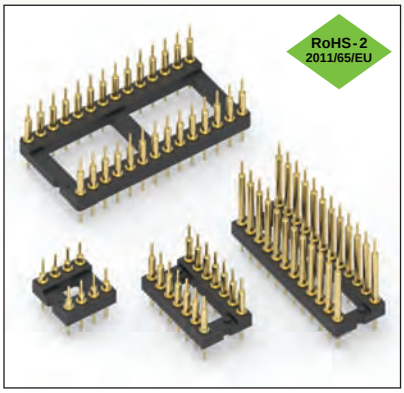
DUAL-IN-LINE HEADERS

SERIES 142 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 142 DIL Headers have double-ended 0,46 diameter pluggable solder tails
- Used to interconnect PC Boards with spacings of 5,33, 8,51, 14,86 or 21,21. Series 142 uses MM #4259-1, -2, -3 or -4 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 5,33	L = 8,51	L = 14,86	L = 21,21
6	7,6	7,62	10,1	67	142-XX-306-00-591000	142-XX-306-00-592000	142-XX-306-00-593000	142-XX-306-00-594000
8	10,1	7,62	10,1	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000
14	17,7	7,62	10,1	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000
16	20,3	7,62	10,1	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000
18	22,8	7,62	10,1	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000
20	25,3	7,62	10,1	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000
24	30,4	7,62	10,1	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000
22	27,8	10,16	12,7	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000
24	30,4	15,24	17,7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000
28	35,5	15,24	17,7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000
32	40,6	15,24	17,7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000
40	50,8	15,24	17,7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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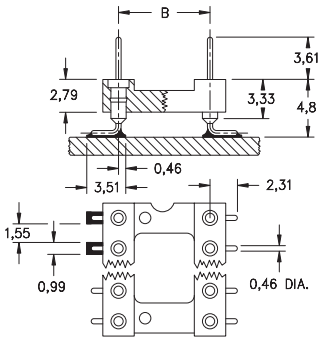
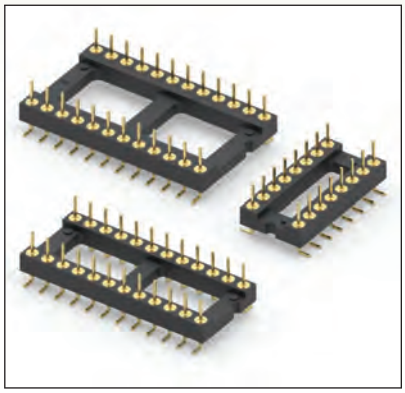
DUAL-IN-LINE HEADERS

SERIES 150 • SURFACE MOUNT, GULL WING • OPEN FRAME



See page 130 for Insulator Details

- Surface mount Gull Wing DIP headers for adapters and board stacking on 2,54 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 150 uses MM #3404 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	150-10-210-00-106000
4	5,0	7,62	10,1	102	150-10-304-00-106000
6	7,6	7,62	10,1	67	150-10-306-00-106000
8	10,1	7,62	10,1	50	150-10-308-00-106000
10	12,6	7,62	10,1	40	150-10-310-00-106000
14	17,7	7,62	10,1	29	150-10-314-00-106000
16	20,3	7,62	10,1	25	150-10-316-00-106000
18	22,8	7,62	10,1	22	150-10-318-00-106000
20	25,3	7,62	10,1	20	150-10-320-00-106000
22	27,8	7,62	10,1	18	150-10-322-00-106000
24	30,4	7,62	10,1	16	150-10-324-00-106000
28	35,5	7,62	10,1	14	150-10-328-00-106000
20	25,4	10,16	12,7	20	150-10-420-00-106000
22	27,8	10,16	12,7	18	150-10-422-00-106000
24	30,4	10,16	12,7	16	150-10-424-00-106000
28	35,5	10,16	12,7	14	150-10-428-00-106000
32	40,6	10,16	12,7	12	150-10-432-00-106000
24	30,4	15,24	17,7	16	150-10-624-00-106000
28	35,5	15,24	17,7	14	150-10-628-00-106000
32	40,6	15,24	17,7	12	150-10-632-00-106000
36	45,7	15,24	17,7	11	150-10-636-00-106000
40	50,8	15,24	17,7	10	150-10-640-00-106000
42	53,3	15,24	17,7	9	150-10-642-00-106000
48	60,9	15,24	17,7	8	150-10-648-00-106000
50	63,5	15,24	17,7	8	150-10-650-00-106000
52	66,0	15,24	17,7	7	150-10-652-00-106000
50	63,5	22,86	25,3	8	150-10-950-00-106000
52	66,0	22,86	25,3	7	150-10-952-00-106000
64	81,2	22,86	25,3	6	150-10-964-00-106000

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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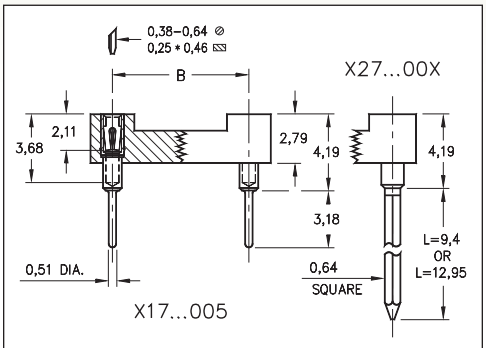
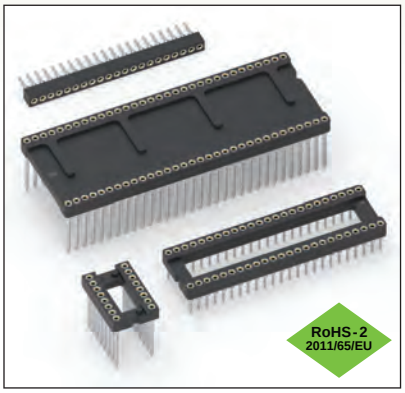
DUAL-IN-LINE SOCKETS

SERIES 117, 127, 217, 227, 317, 327 • SHRINK DIP, SOLDER TAIL & WRAPOST



See page 132 for Insulator Details

- High density DIP sockets and strips for devices featuring 1,78 lead spacing
- Solder tails use MM #1802 receptacles, See page 169 for details. Wraposts use MM #1702-2 or 1703-3 receptacles, See page 198 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

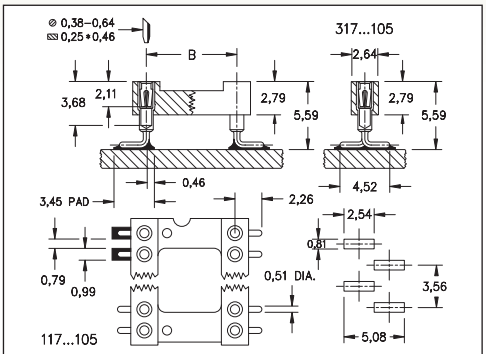
Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
					OPEN FRAME DIP SOCKET		
16	14,53	7,62	9,91	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000
28	25,2	10,16	12,45	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000
30	26,97	10,16	12,45	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000
48	42,98	10,16	12,45	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000
20	18,08	15,24	17,53	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000
28	25,2	15,24	17,53	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000
40	35,86	15,24	17,53	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000
42	37,64	15,24	17,53	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000
48	42,98	15,24	17,53	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000
52	46,53	15,24	17,53	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000
56	50,1	15,24	17,53	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000
64	57,2	15,24	17,53	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000
68	60,76	15,24	17,53	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000
64	57,2	19,05	21,34	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000
					CLOSED FRAME DIP SOCKET		
64	57,2	19,05	21,34	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.		
21	37,64	---	2,64	-	317-XX-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

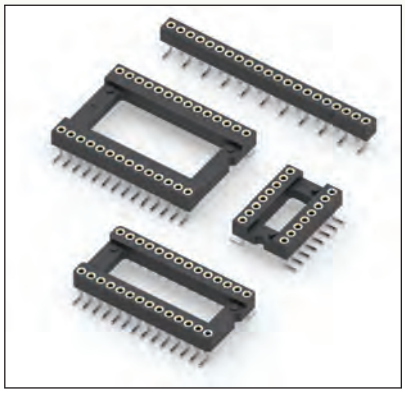
DUAL-IN-LINE SOCKETS

SERIES 117, 317 • GULL WING SHRINK DIP SOCKETS & STRIPS, SMT SOLDER TAIL



See page 132 for Insulator Details

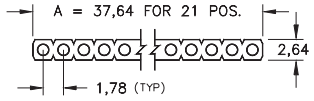
- Surface mount Gull Wing DIP & strip sockets for devices featuring 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 117 and 317 use MM #1802 pins. See page 169 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
16	14,53	7,62	9,91	35	117-XX-316-41-105000
28	25,20	10,16	12,45	20	117-XX-428-41-105000
30	26,97	10,16	12,45	18	117-XX-430-41-105000
48	42,98	10,16	12,45	12	117-XX-448-41-105000
20	18,08	15,24	17,53	28	117-XX-620-41-105000
28	25,20	15,24	17,53	20	117-XX-628-41-105000
40	35,86	15,24	17,53	14	117-XX-640-41-105000
42	37,64	15,24	17,53	13	117-XX-642-41-105000
48	42,98	15,24	17,53	12	117-XX-648-41-105000
52	46,53	15,24	17,53	11	117-XX-652-41-105000
56	50,09	15,24	17,53	10	117-XX-656-41-105000
64	57,20	15,24	17,53	9	117-XX-664-41-105000
68	60,76	15,24	17,53	8	117-XX-668-41-105000
64	57,20	19,05	21,34	8	117-XX-764-41-105000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP SOCKET

If desired, we will supply any length up to 21 pins.

21	37,64	---	2,64	-	317-XX-121-41-105000

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=		91			41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au			0,25µm Au	0,76µm Au	

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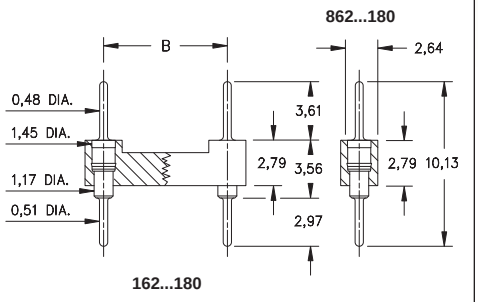
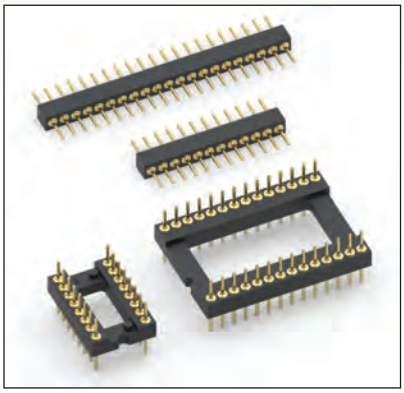
DUAL-IN-LINE HEADERS

SERIES 162, 862 • SHRINK DIP HEADER AND STRIPS, SOLDER TAIL



See page 132 for Insulator Details

- High density DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Series 162 DIP headers and Series 862 strip headers use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

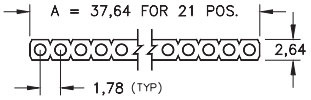


ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Ordering Information
16	14,53	7,62	9,91	35	162-XX-316-00-180000
28	25,20	10,16	12,45	20	162-XX-428-00-180000
30	26,97	10,16	12,45	18	162-XX-430-00-180000
48	42,98	10,16	12,45	12	162-XX-448-00-180000
20	18,08	15,24	17,53	28	162-XX-620-00-180000
28	25,20	15,24	17,53	20	162-XX-628-00-180000
40	35,86	15,24	17,53	14	162-XX-640-00-180000
42	37,64	15,24	17,53	13	162-XX-642-00-180000
48	42,98	15,24	17,53	12	162-XX-648-00-180000
52	46,53	15,24	17,53	11	162-XX-652-00-180000
56	50,09	15,24	17,53	10	162-XX-656-00-180000
64	57,20	15,24	17,53	9	162-XX-664-00-180000
68	60,76	15,24	17,53	8	162-XX-668-00-180000
64	57,20	19,05	21,34	8	162-XX-764-00-180000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP HEADER

If desired, we will supply any length up to 21 pins.

21	37,64	---	2,64	---	862-XX-021-00-180000

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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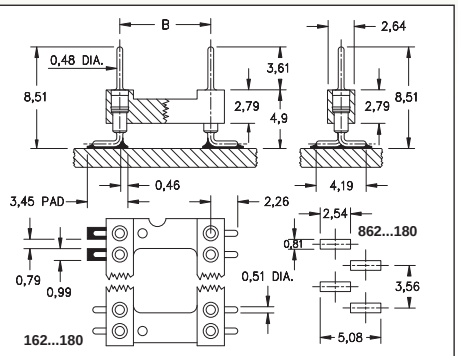
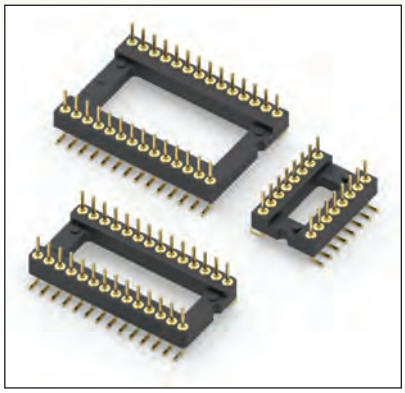
DUAL-IN-LINE HEADERS

SERIES 162, 862 • GULL WING SHRINK DIP HEADERS & STRIPS, SMT SOLDER TAIL



See page 132 for Insulator Details

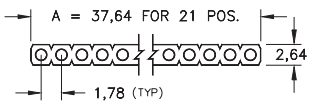
- Surface mount Gull Wing DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 162 and Series 862 use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
16	14,53	7,62	9,91	35	162-10-316-30-180000
28	25,20	10,16	12,45	20	162-10-428-30-180000
30	26,97	10,16	12,45	18	162-10-430-30-180000
48	42,98	10,16	12,45	12	162-10-448-30-180000
20	18,08	15,24	17,53	28	162-10-620-30-180000
28	25,20	15,24	17,53	20	162-10-628-30-180000
40	35,86	15,24	17,53	14	162-10-640-30-180000
42	37,64	15,24	17,53	13	162-10-642-30-180000
48	42,98	15,24	17,53	12	162-10-648-30-180000
52	46,53	15,24	17,53	11	162-10-652-30-180000
56	50,09	15,24	17,53	10	162-10-656-30-180000
64	57,20	15,24	17,53	9	162-10-664-30-180000
68	60,76	15,24	17,53	8	162-10-668-30-180000
64	57,20	19,05	21,34	8	162-10-764-30-180000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP SOCKET
If desired, we will supply any length up to 21 pins.

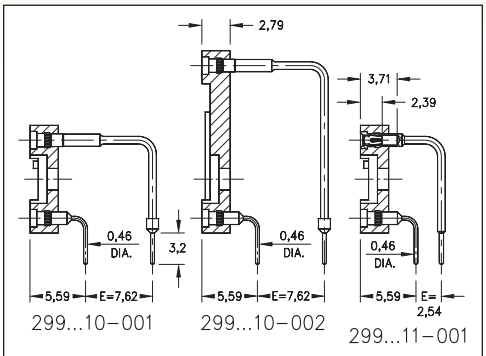
21	37,64	---	2,64	---	862-10-021-30-180000

See page 264 for coplanarity information

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

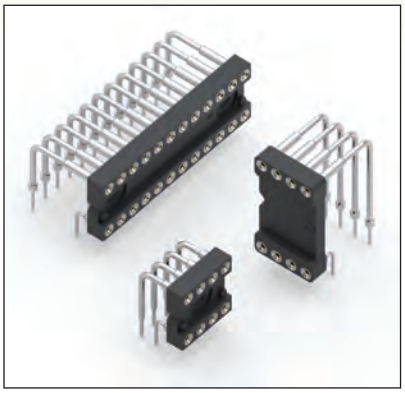
DUAL-IN-LINE SOCKETS

SERIES 299 • RIGHT ANGLE MOUNT • CLOSED FRAME



See page 131 for Insulator Details

- Ideal for mounting components, such as LED displays, where the face must be parallel to the PCB surface
- Sockets have solder tail termination and are available with either 7,62 (standard) or 2,54 row spacing
- Series 299 uses MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 166 & 167 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	E= 2,54	E = 7,62
6	7,6	7,62	10,1		299-XX-306-11-001000	* 299-XX-306-10-001000
8	10,1	7,62	10,1		299-XX-308-11-001000	* 299-XX-308-10-001000
10	12,6	7,62	10,1		299-XX-310-11-001000	* 299-XX-310-10-001000
12	15,2	7,62	10,1	33	299-XX-312-11-001000	* 299-XX-312-10-001000
14	17,7	7,62	10,1	29	299-XX-314-11-001000	* 299-XX-314-10-001000
16	20,3	7,62	10,1	25	299-XX-316-11-001000	* 299-XX-316-10-001000
18	22,8	7,62	10,1	22	299-XX-318-11-001000	* 299-XX-318-10-001000
20	25,3	7,62	10,1	20	299-XX-320-11-001000	* 299-XX-320-10-001000
24	30,4	7,62	10,1	16	299-XX-324-11-001000	* 299-XX-324-10-001000
8	10,1	15,24	17,7	50		299-XX-608-10-002000
10	12,6	15,24	17,7	40		299-XX-610-10-002000
12	15,2	15,24	17,7	34		299-XX-612-10-002000
14	17,7	15,24	17,7	28		299-XX-614-10-002000
16	20,3	15,24	17,7	25		299-XX-616-10-002000
18	22,8	15,24	17,7	22		299-XX-618-10-002000
20	25,3	15,24	17,7	20		299-XX-620-10-002000
22	27,8	15,24	17,7	18		299-XX-622-10-002000
24	30,4	15,24	17,7	16		299-XX-624-10-002000
26	33,0	15,24	17,7	15		299-XX-626-10-002000
28	35,5	15,24	17,7	14		299-XX-628-10-002000
30	38,1	15,24	17,7	13		299-XX-630-10-002000
32	40,6	15,24	17,7	12		299-XX-632-10-002000
36	45,7	15,24	17,7	11		299-XX-636-10-002000
40	50,8	15,24	17,7	10		299-XX-640-10-002000

* Not available in tubes

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,76µm Au			0,76µm Au	

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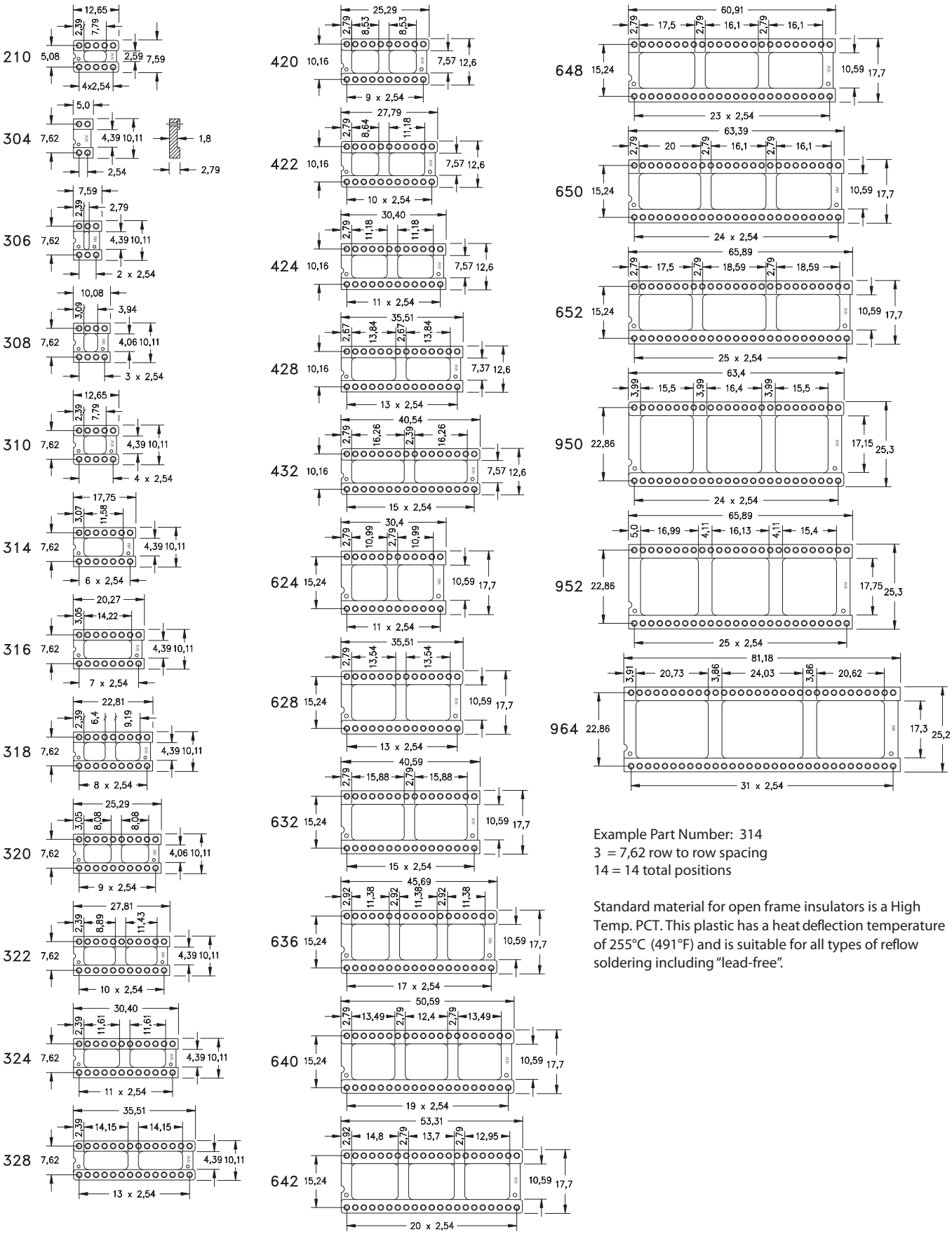
DUAL-IN-LINE INSULATORS
STANDARD OPEN FRAME



Example Part Number: 314
3 = 7,62 row to row spacing
14 = 14 total positions

Standard material for open frame insulators is a High Temp. PCT. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".

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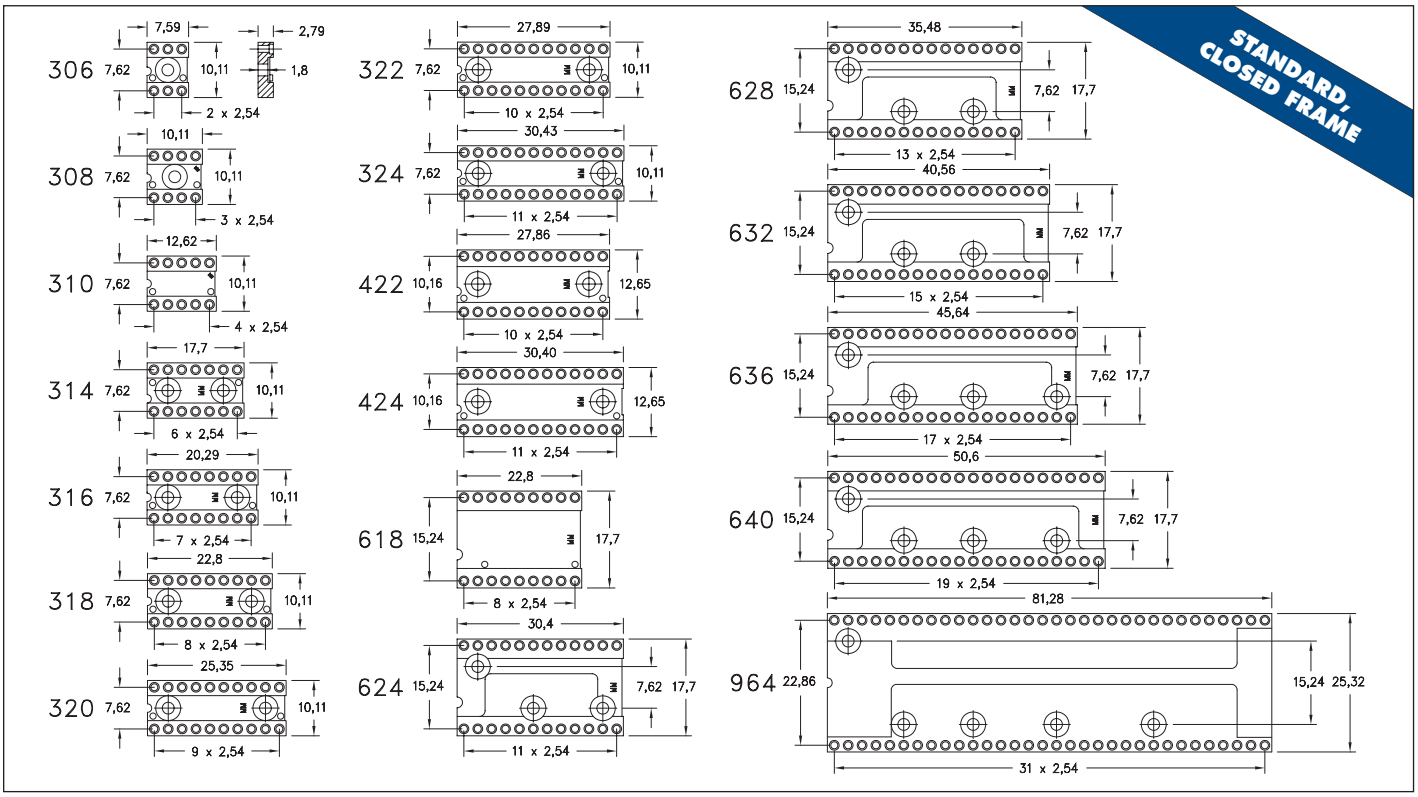
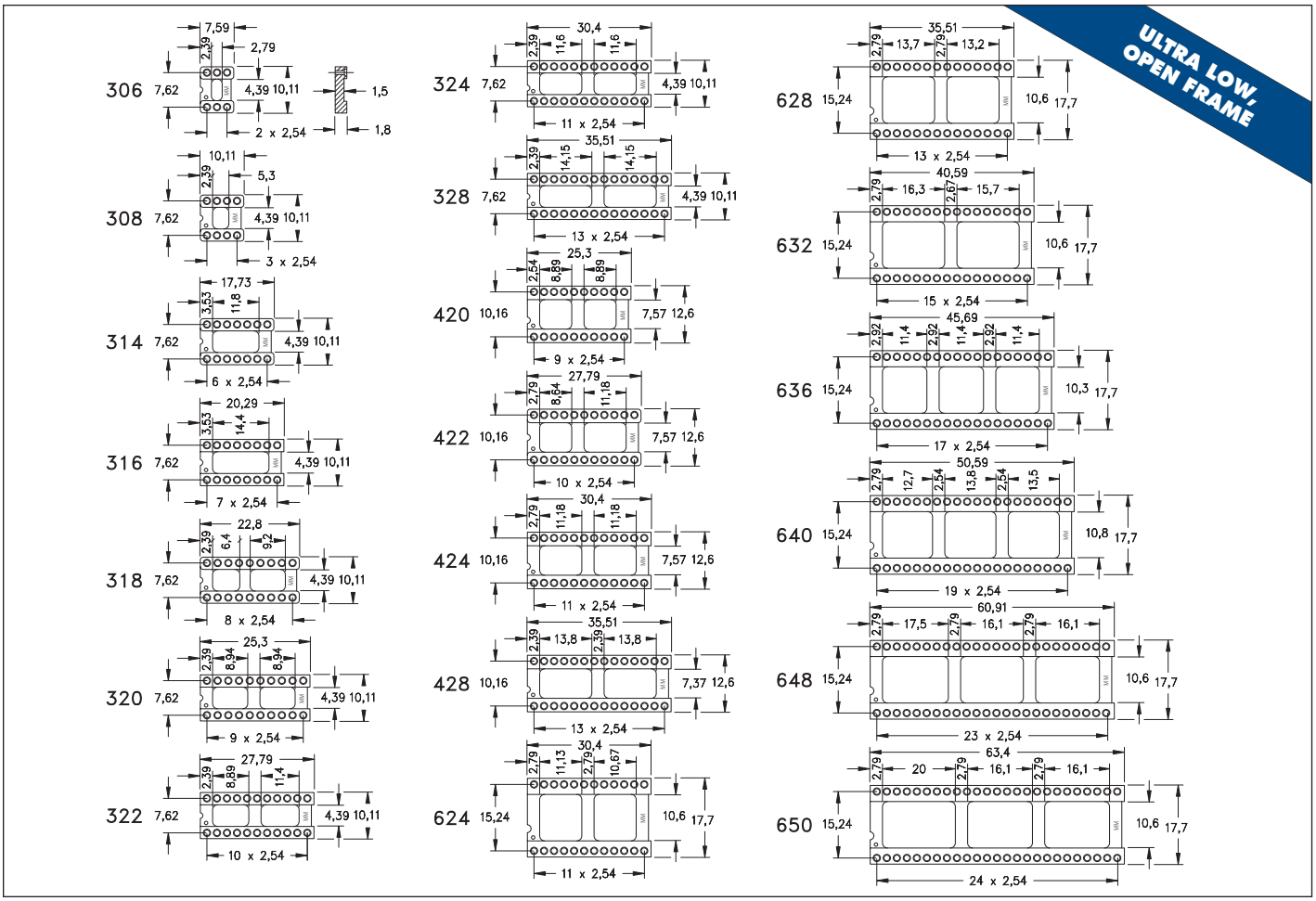
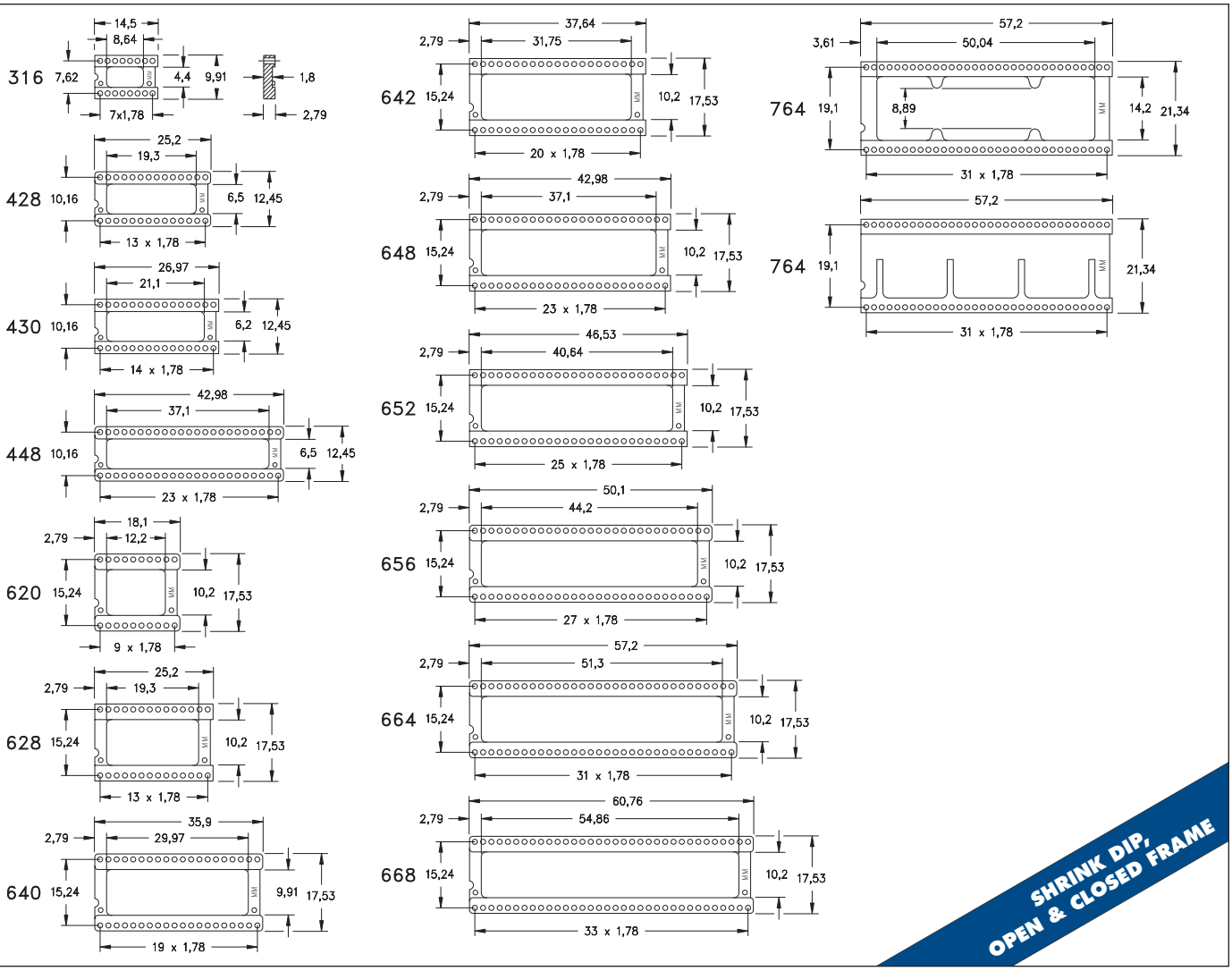
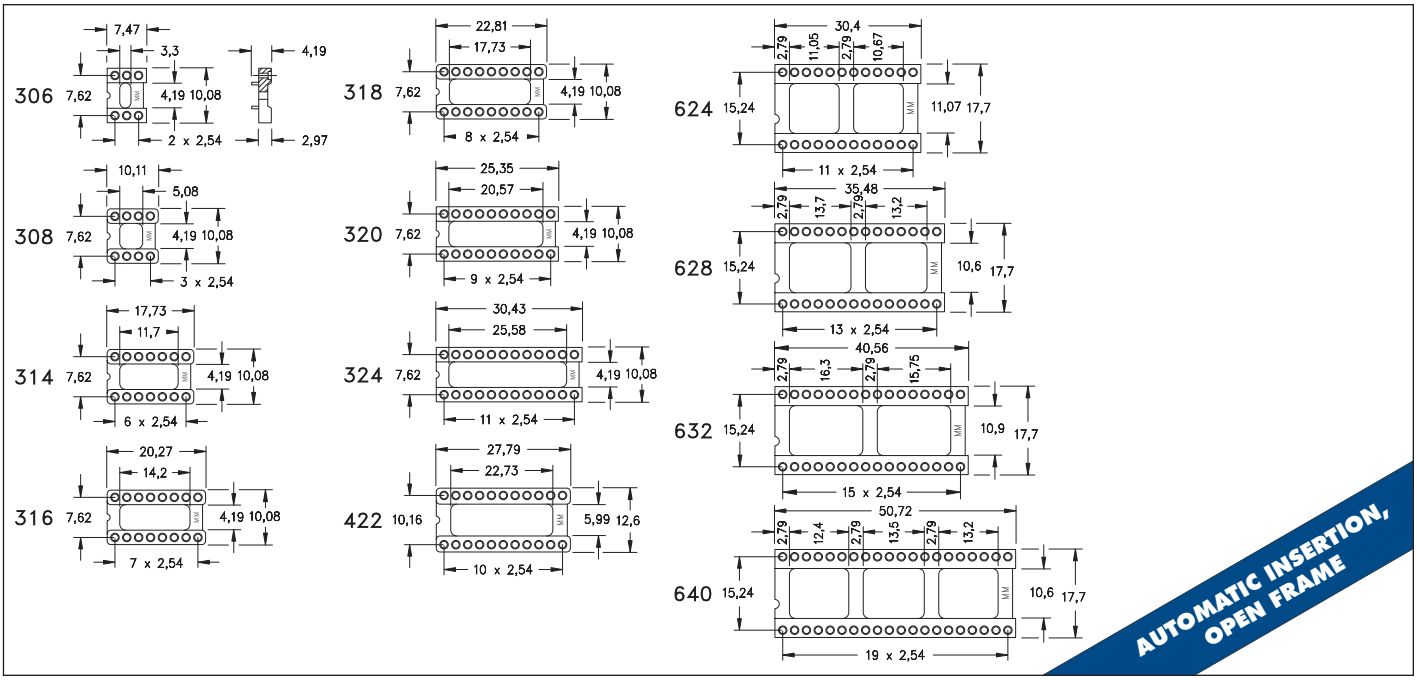
DUAL-IN-LINE INSULATORS
STANDARD, CLOSED FRAME • ULTRA LOW PROFILE, OPEN FRAME





DUAL-IN-LINE INSULATORS
SHRINK DIP, OPEN & CLOSED FRAME • AUTOMATIC INSERTION, OPEN FRAME





DUAL-IN-LINE SOCKETS

SERIES 296, 299, 594 • DISPLAY SOCKETS

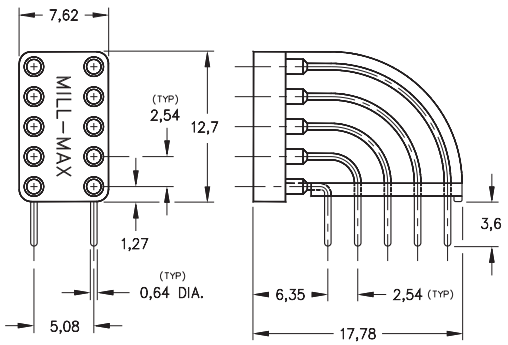
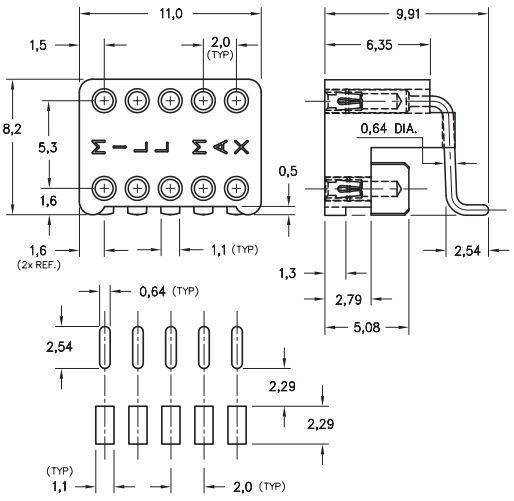


FIG. 1



FOOTPRINT

FIG. 2

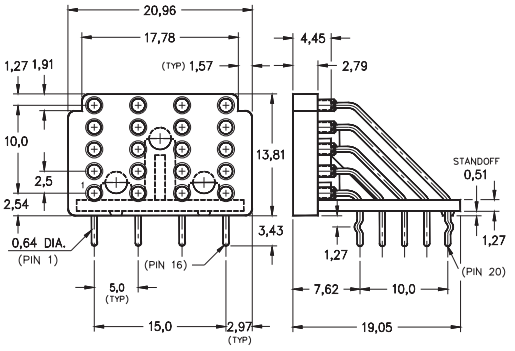
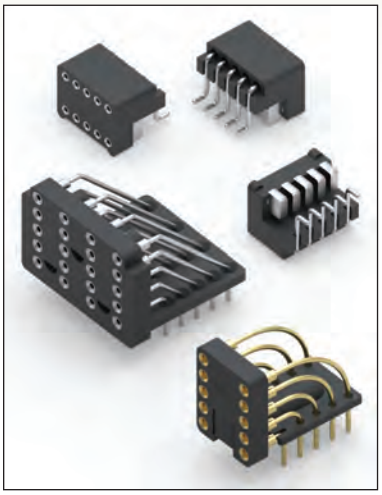


FIG. 3

- Series 296, 299 and 594 display sockets are used to mount dot matrix and 7-segment LED displays at the edge of and perpendicular to a printed circuit board. This positions the display directly behind the translucent front panel of the equipment
- Series 299 & 594 are through-hole mount and can be wave or intrusive reflow soldered
- Series 296 is surface mount and can be supplied on carrier tape for automated "pick 'n place" assembly
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- See also page 129 for Right Angle DIP Sockets
- Insulators are high temp. Nylon 46, suitable for all soldering processes including "lead-free"
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1

Series 299...001 — **10 Pin Vertical Display Socket**

Discrete Sockets

299-99-210-12-001800

Plating Code

FIG. 2

Series 296...691 — **10 Pin Horizontal Display Socket**

Discrete Sockets

296-XX-010-30-691800

Plating Code

Series 296...692 — **10 Pin Horizontal Display Socket**

Supplied on 24mm wide carrier tape per EIA-481: 450 per 330mm reel

296-XX-010-30-692800

Plating Code

FIG. 3

Series 594...007 — **20 Pin Vertical Display Socket**

Discrete Sockets

594-XX-020-01-007032

Plating Code

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX=				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				5,08µm Sn/Pb			5,08µm Sn

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DUAL-IN-LINE SOCKETS

SERIES 110, 410 • RELAY AND ZIG-ZAG SOCKETS

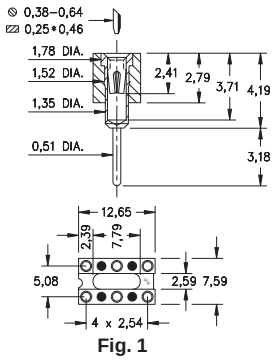


Fig. 1

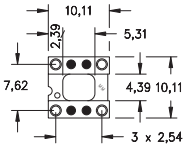


Fig. 2

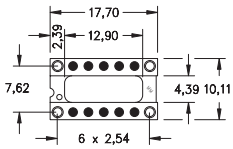


Fig. 3

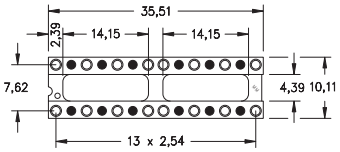
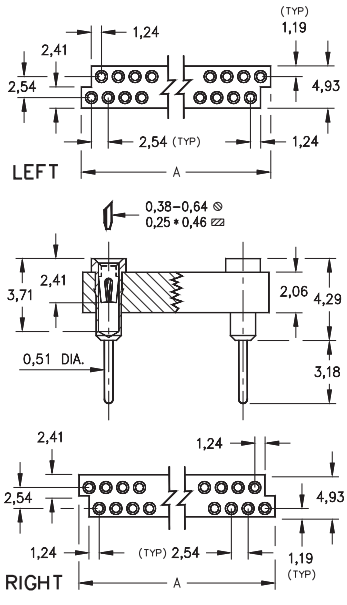
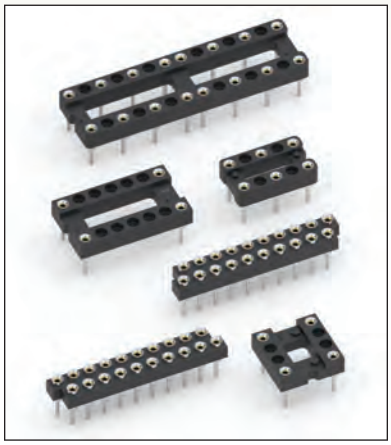


Fig. 4

○ = Loaded Position ● = Empty Position



- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 135
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns
- Series 110 and 410 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Selectively Loaded Sockets For Dual-In-Line Relays

	Number of Pins	Ordering Information
FIG. 1	6	110-XX-210-10-001000
FIG. 2	4	110-XX-308-10-001000
FIG. 3	4	110-XX-314-10-001000
FIG. 4	16	110-XX-328-10-001000

Staggered (Zig-Zag) Strip Sockets

Dim 'A'	Number of Pins	Insulator Body	Ordering Information
18,97	14	Left, Stackable	410-XX-214-10-001000
18,97	14	Right, Stackable	410-XX-214-10-002000
21,51	16	Left, Stackable	410-XX-216-10-001000
21,51	16	Right, Stackable	410-XX-216-10-002000
26,59	20	Left, Stackable	410-XX-220-10-001000
26,59	20	Right, Stackable	410-XX-220-10-002000
31,67	24	Left, Stackable	410-XX-224-10-001000
31,67	24	Right, Stackable	410-XX-224-10-002000
36,75	28	Left, Stackable	410-XX-228-10-001000
36,75	28	Right, Stackable	410-XX-228-10-002000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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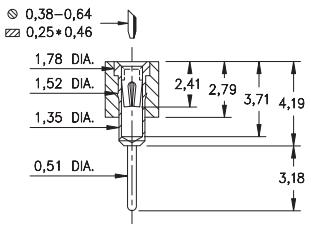
DUAL-IN-LINE SOCKETS

SERIES 110 • SELECTIVELY LOADED RELAY DIP SOCKET, SOLDER TAIL



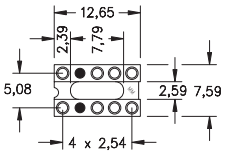


Fig. 1

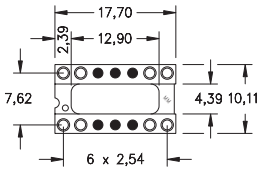


Fig. 2

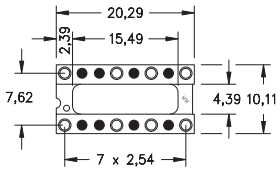


Fig. 3

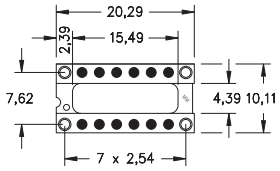


Fig. 4

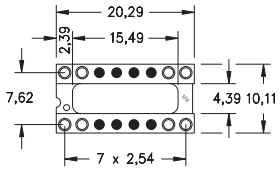


Fig. 5

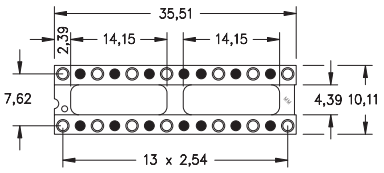
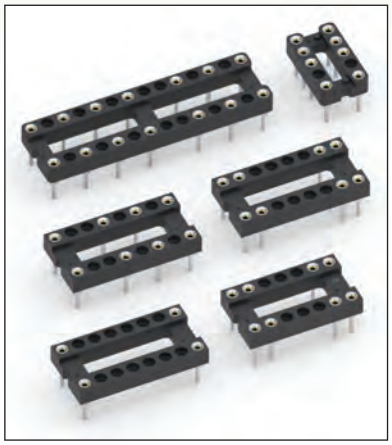


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 134
- Series 110 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1	**Series 110...002**	**8 Position Relay Socket**
	110-XX-210-10-002000	
FIG. 2	**Series 110...002**	**8 Position Relay Socket**
	110-XX-314-10-002000	
FIG. 3	**Series 110...003**	**8 Position Relay Socket**
	110-XX-316-10-003000	
FIG. 4	**Series 110...004**	**4 Position Relay Socket**
	110-XX-316-10-004000	
FIG. 5	**Series 110...005**	**8 Position Relay Socket**
	110-XX-316-10-005000	
FIG. 6	**Series 110...002**	**14 Position Relay Socket**
	110-XX-328-10-002000	

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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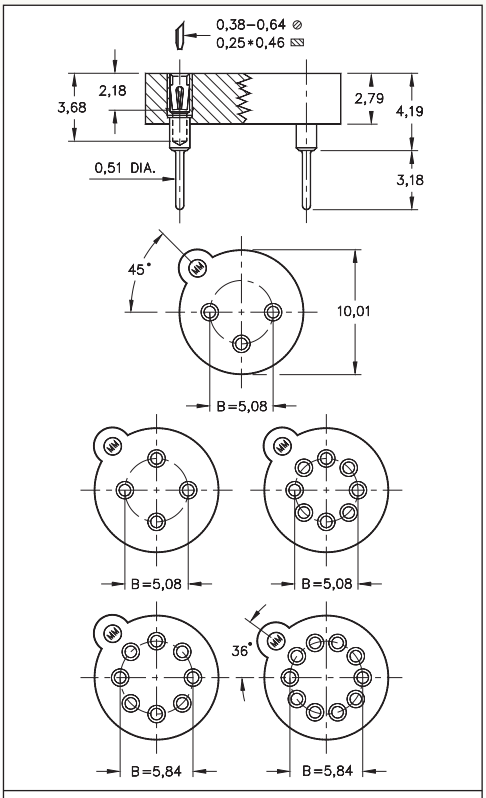
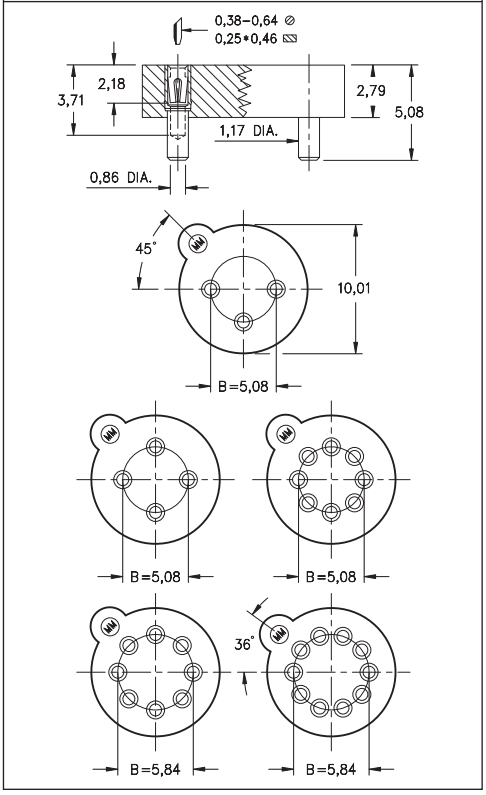
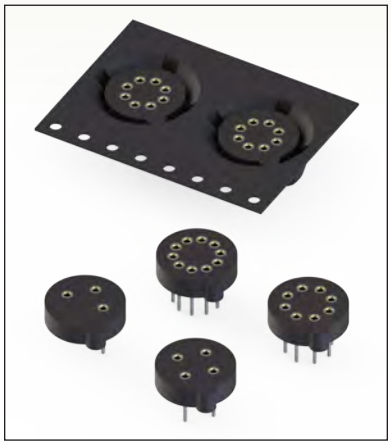
TRANSISTOR SOCKETS

SERIES 917 • SURFACE AND THROUGH-HOLE MOUNT





- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions
- Two 8 pin versions feature pin centers on 5,08 or 5,84 circle
- Series 917...005 use MM #1705 and MM #1802 pins, see pages 168 and 169 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Series 917...001 uses MM #1701 pins. See page 171 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Transistor Sockets (Through-Hole Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-005000
TO-5	5,08	4	917-XX-104-41-005000
TO-5	5,08	8	917-XX-108-41-005000
TO-100	5,84	8	917-XX-208-41-005000
TO-100	5,84	10	917-XX-210-41-005000

Transistor Sockets (Surface Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-001000
TO-5	5,08	4	917-XX-104-41-001000
TO-5	5,08	8	917-XX-108-41-001000
TO-100	5,84	8	917-XX-208-41-001000
TO-100	5,84	10	917-XX-210-41-001000

Tape and Reel Packaging: (Surface Mount ONLY)

Ordering Information: 917-XX-XXX-41-001799

Available on 24mm wide tape, 730 parts per 330mm reel

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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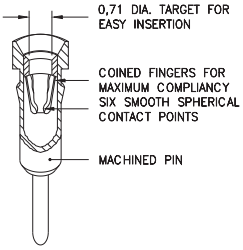
PIN GRID ARRAY SOCKETS

TECHNICAL SPECIFICATIONS

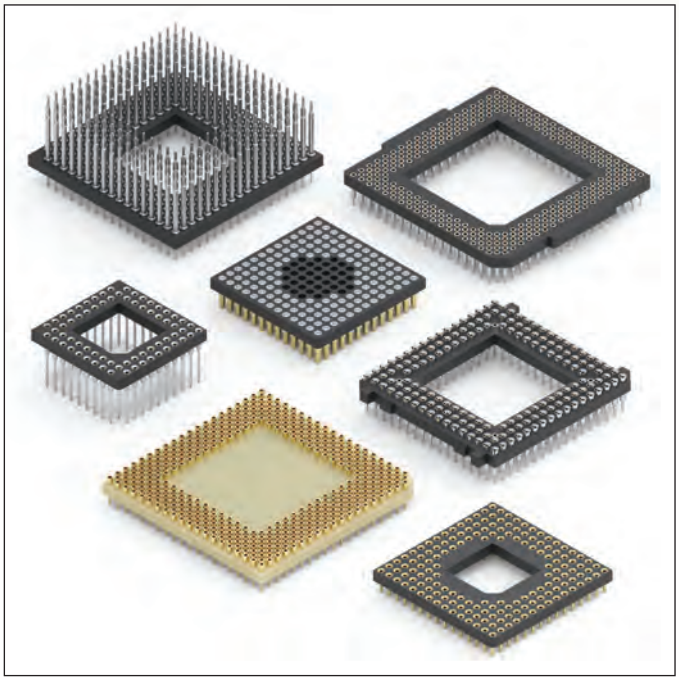
Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion / extraction of the device. Standard low force (MM #32) contact is used for pin counts up to 150, ultra-low force (MM #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (MM #43) is recommended for 250 pins or more.

CONTACT DETAIL



PGA sockets all have precision-machined pins. This offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.

Insulator bodies are molded from high temperature PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



TECHNICAL SPECIFICATIONS

Materials

Insulator body:
- High temperature glass-filled thermoplastic polyester (PCT)
- Heat deflection temperature (HDT @ 264 PSI) = 255°C (490°F)
- Self-extinguishing, rated UL94V-0

Receptacle (Sleeve):
- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

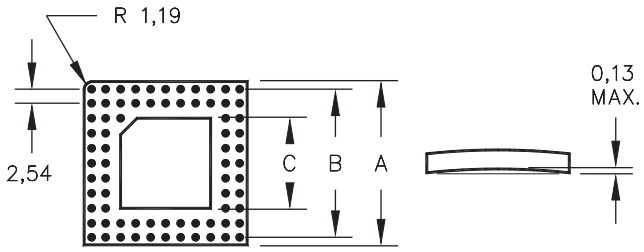
Pin:
- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

Contact (clip):
- Stamped beryllium-copper (ASTM-B194-01), plated 0,25µm or 0,76µm gold over 1,27µm nickel.

Mechanical Data
- Insertion characteristics:
- Measured with a polished steel gauge 0,46 diameter
- Low force MM#32 (01 suffix) typical insertion force 50 grams
  typical extraction force 30 grams
- Ultra-low force MM#35 (02 suffix) typical insertion force 25 grams
  typical extraction force 15 grams
- "Ultra lite" MM#43 (03 suffix) typical insertion force 12.5 grams
  typical extraction force 7.5 grams
- Mechanical life: 100 cycles min.

Electrical & Environmental Data
- See general specifications on page 264.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS **A, B,** and **C** can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

A = N1 X 2,54

B = (N1-1) X 2,54

C = (N2 X 2,54) - 0,41

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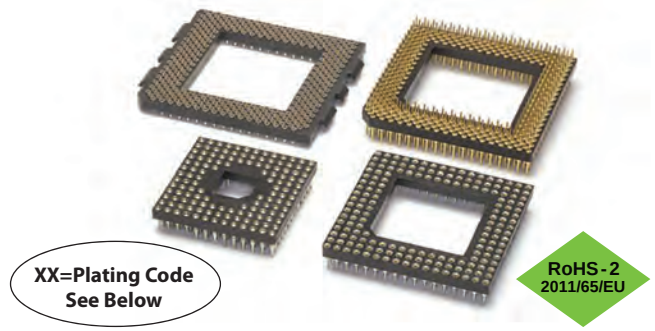
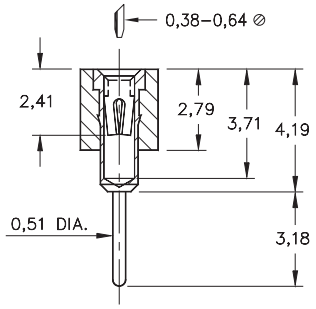
PIN GRID ARRAY SOCKETS

SERIES 510,511,513,514,515,518,522,523 • 2,54 AND INTERSTITIAL GRID • SURFACE MOUNT, THROUGH-HOLE AND WIREWRAP

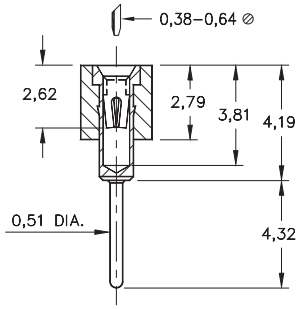
- Series 510, 511, 514, 515, 522 and 523 PGA sockets are available on 2,54 centers
- Series 513 and 518 PGA sockets are available for Interstitial patterns
- Choice of three low force clips to cover all applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details



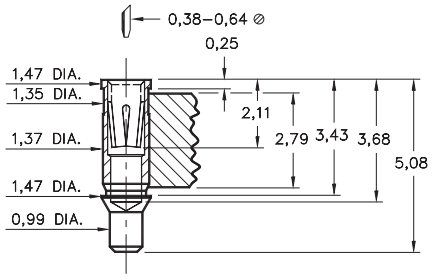
SERIES 510 (Standard Solder Tail)



SERIES 511 (Long Solder Tail)

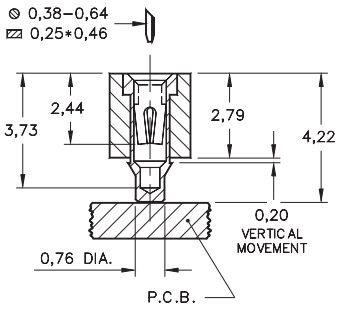


SERIES 513 (SMT Receptacle)

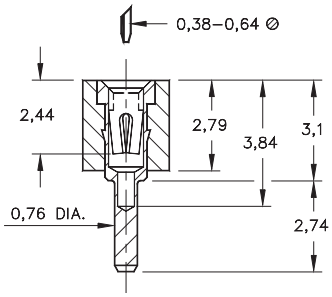


Interstitial Patterns Only

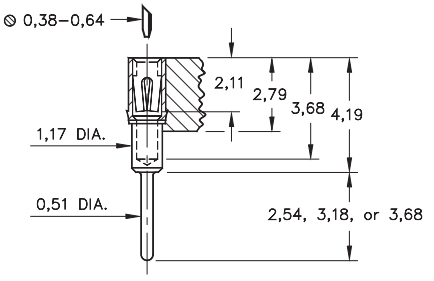
SERIES 514 (SMT Receptacle)



SERIES 515 (Low Profile Solder Tail)

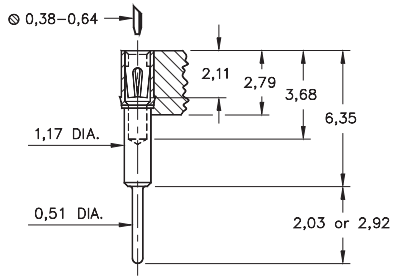


SERIES 518 (Solder Tail No, Heatsink Tabs)



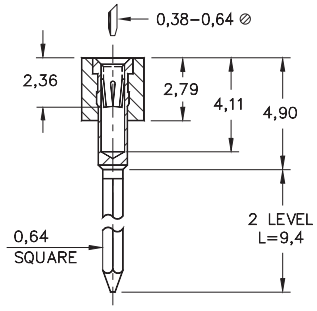
Interstitial Patterns Only

SERIES 518 (Solder Tail w/ Heatsink Tabs)

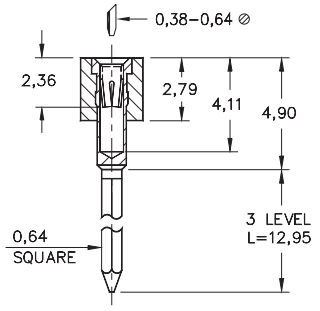


Interstitial Patterns Only

SERIES 522 (2 Level Wrapost)



SERIES 523 (3 Level Wrapost)



Visit www.mill-max.com/pga to configure a formal part number

SPECIFY PLATING CODE XX=	13 ◆	91	93	99		43 ◆	
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb		0,76µm Au	

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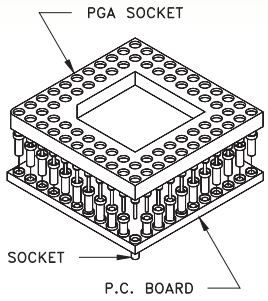
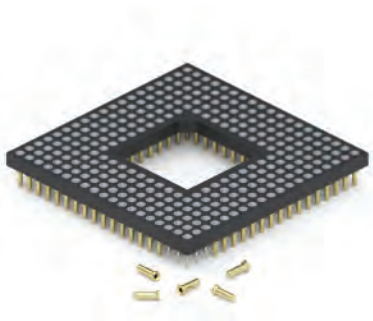
PIN GRID ARRAY SOCKETS

SERIES 605, 614 • 2,54 AND INTERSTITIAL GRID • CARRIER TYPE

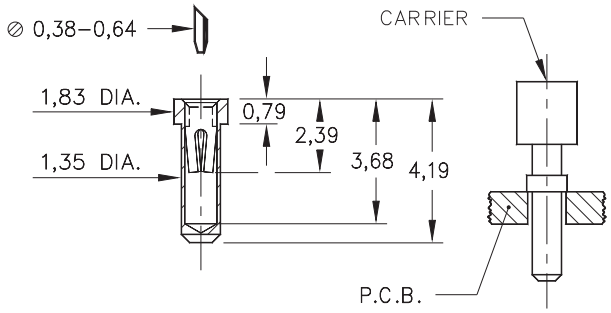
- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles
- Many combinations of receptacles and clips to cover all applications
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board
- Removeable insulator makes carriers ideal for low profile applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details

APPLICATION OF PGA SOCKET CARRIERS



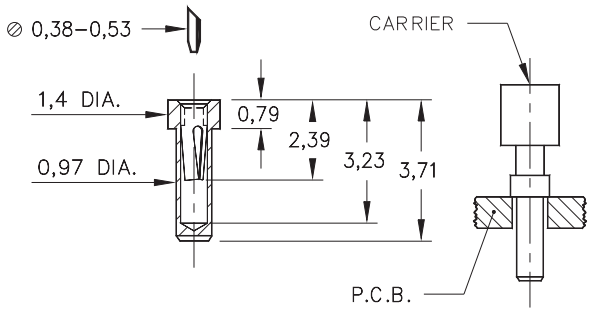


SERIES 614...001, 002, 003
LOW PROFILE SOCKET

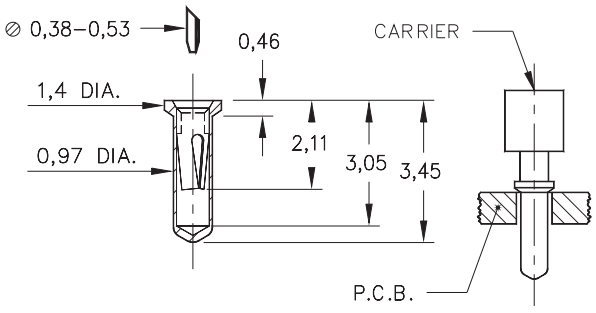


For .100" Grid Only

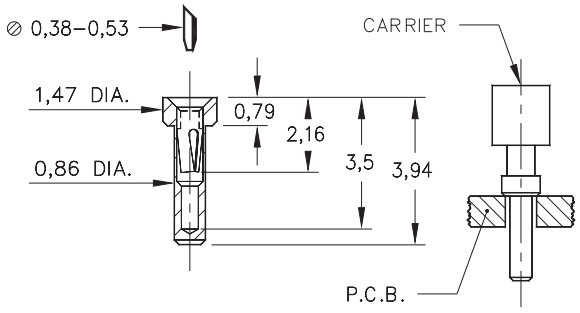
SERIES 614...007
MINIATURE SOCKET



SERIES 614...012
LOWEST PROFILE SOCKET



SERIES 605...048
REDUCED BARREL SOCKET



XX=Plating Code See Below

RoHS-2 2011/65/EU

Visit www.mill-max.com/pga to configure a formal part number

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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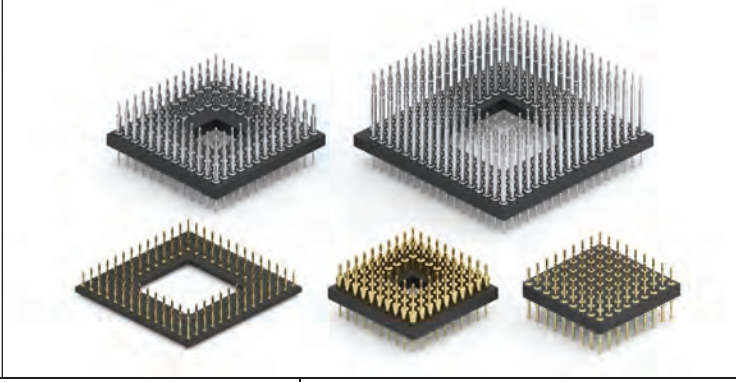
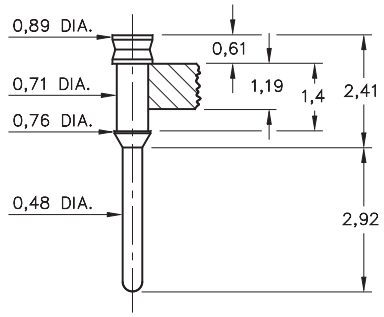
PIN GRID ARRAY HEADERS

SERIES 507, 550, 551, 599 • 2,54 AND INTERSTITIAL GRID • SURFACE MOUNT AND THROUGH-HOLE

- Series 551 and 599 headers are available on 2,54 centers
- Series 507 and 550 PGA headers are available for interstitial patterns and designed for SMT adapter applications
- Series 550 and 551 are through-hole mount for adapter & board stacking applications
- Series 550 and 551 use High temperature PCT polyester insulator material suitable for all forms of soldering
- Series 507 and 599 use FR-4 epoxy insulator material
- For Electrical, Mechanical and Environmental Data, see page 137 for details

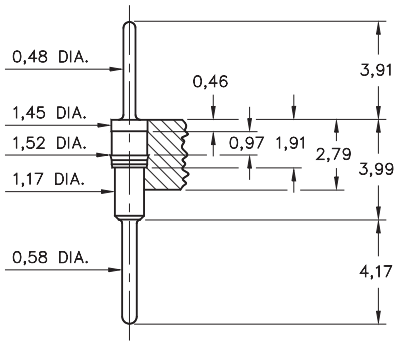


SERIES 507
SMT HEADER PIN TYPE #0737



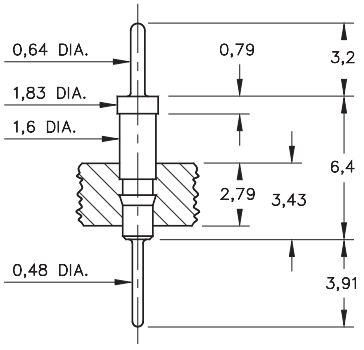
Interstitial Patterns Only

SERIES 550
HEADER PIN TYPE #5012

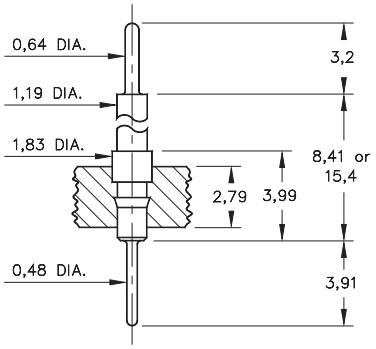


Interstitial Patterns Only

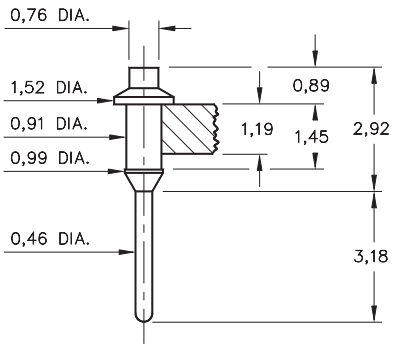
SERIES 551
HEADER PIN TYPE #5503



SERIES 551
HEADER PIN TYPE #5504 & #5505



SERIES 599
SMT HEADER PIN TYPE #9976



XX=Plating Code See Below

RoHS-2 2011/65/EU

Visit www.mill-max.com/pga to configure a formal part number	SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
	Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 0,25µm gold over 1,27µm nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 0,25µm gold over 2,54µm nickel.
- Insulator material: 1,19 or 1,57 thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/°C, $\varepsilon_r = 5.0$

Mechanical:

- Insertion and withdrawal forces (using 0,25 dia. polished steel gage pin): Insertion: .36N typ. per pin
  Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: less than or equal to 0,13

Electrical:

- Current rating (per pin): 1A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 VRMS: Initial value: 1,000,000 MΩ min.
  After climatic tests: 10,000 MΩ min.
- Dielectric withstanding voltage: 500 VRMS
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

- Operating temperature range: -55 °C to +125 °C
  BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
- Damp heat, cyclic: 25/55 °C, 6 days
- Dry heat: 100°C, 1,000 hours
- Thermal shock: -55 to +125 °C, 5 cycles
- Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
- Shock: 50 g per axis
- Solderability: 235 °C, 2 seconds
- Resistance to soldering heat: 270 °C, 10 seconds
- Resistance to corrosion:
- Salt spray: 48 hours
- Sulphur dioxide: 96 hours @ 25 ppm SO_2, 25 °C, 75% rH
- Hydrogen sulphide: 96 hours @ 12 ppm H_2S, 25°C, 75% rH

TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

Materials:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
  Through-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5,000 MΩ min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

Environmental Data:

- Operating temperature: -55/+125 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

Materials:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
  Through-hole types: 1A
- Contact resistance: 30 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

Environmental Data:

- Operating temperature: -55/+105 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

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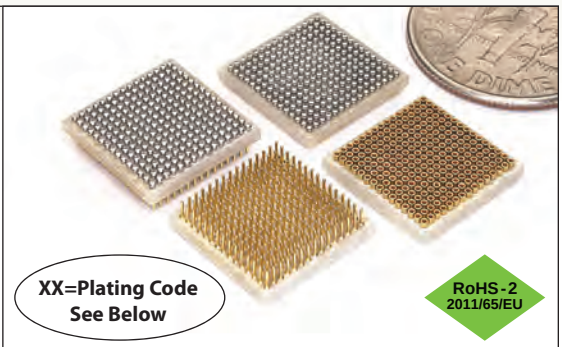
BALL GRID ARRAYS

SERIES 540,579,582,587,599 • FOR 0,8mm GRID, 1mm GRID & 1,27mm GRID • MALE PIN ADAPTERS AND FEMALE SOCKETS

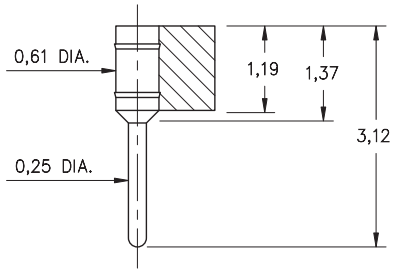
- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9953 (0.8mm grid) or 9928 (1mm grid) surface mount socket
- The BGA device for a 1,27mm grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket
- Both socket and adapter have the same footprint as the BGA device
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board
- For Electrical, Mechanical and Environmental Data, see page 141 for details



XX=Plating Code See Below

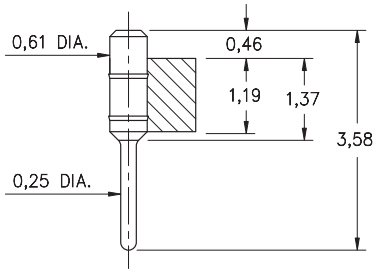
RoHS-2 2011/65/EU

SERIES 599...429
BGA MOUNT TYPE #9929



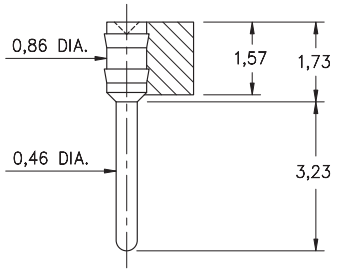
For 0,8mm & 1mm Grid Only

SERIES 579...429
PCB MOUNT TYPE #7929



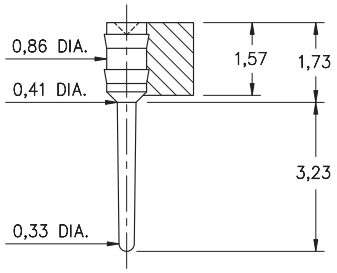
For 0,8mm & 1mm Grid Only

SERIES 587...437
BGA MOUNT TYPE #8737



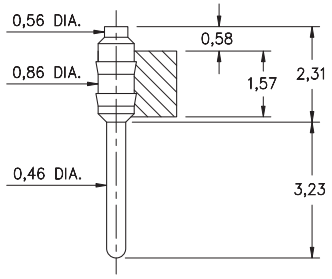
For 1,27 Grid Only

SERIES 540...448
EZ-IN BGA MOUNT TYPE #4048



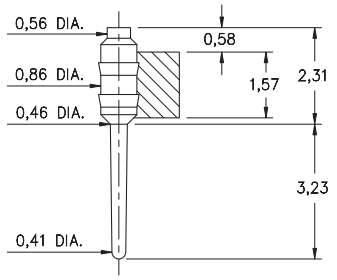
For 1,27 Grid Only

SERIES 540...498
STANDARD PCB MOUNT TYPE #4098



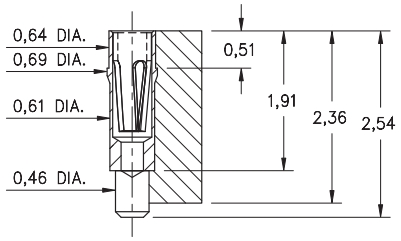
For 1,27 Grid Only

SERIES 540...454
EZ-IN PCB MOUNT TYPE #4054



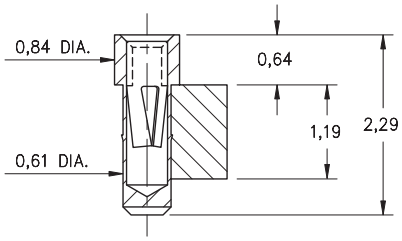
For 1,27 Grid Only

SERIES 599...453
SURFACE MOUNT TYPE #9953



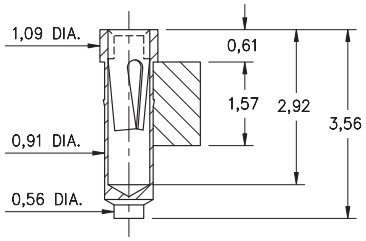
For 0,8mm Grid Only

SERIES 599...428
SURFACE MOUNT TYPE #9928



For 1mm Grid Only

SERIES 582...414
SURFACE MOUNT TYPE #8214



For 1,27 Grid Only

Visit www.mill-max.com/bga to configure a formal part number

SPECIFY PLATING CODE XX =	11 ◆	SPECIFY PLATING CODE XX =	10 ◆
Sleeve (Pin)	0,25µm Au	Pin Plating	0,25µm Au
Contact (Clip)	0,25µm Au		

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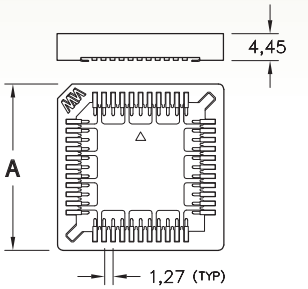
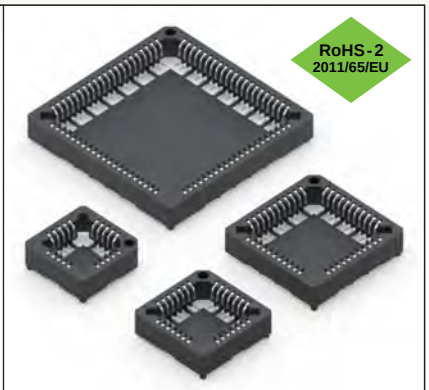
STANDARD PLCC SOCKETS

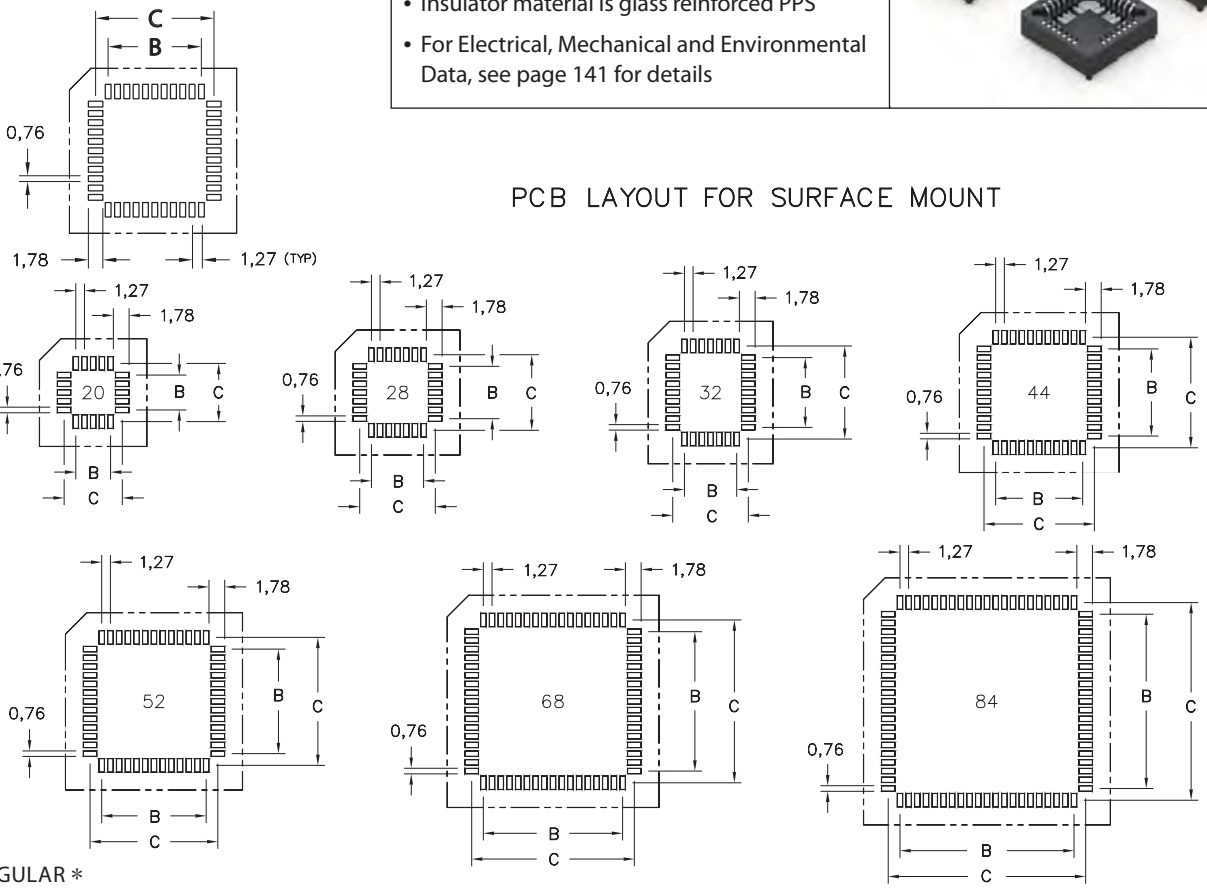
SERIES 940 • SURFACE MOUNT



- Note: Not end stackable
- Accepts JEDEC PLCCs MO-047 and MO-052
- Low profile for high density PC board stacking
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81µm tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



RECTANGULAR *

Number of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube	Qty. per Reel
20	940-44-020-17-40000X	15,57	5,08	8,48	32	470
28	940-44-028-17-40000X	18,11	7,62	11,02	27	390
32 *	940-44-032-17-40000X *	20,6 / 18,1	10,2 / 7,62	13,6 / 11,0	24	390
44	940-44-044-17-40000X	22,86	12,7	16,10	21	250
52	940-44-052-17-40000**4** (Only)	25,73	15,24	18,64	19	250
68	940-44-068-17-40000X	30,81	20,32	23,72	16	220
84	940-44-084-17-40000X	35,89	25,4	28,80	14	200

Packaging Codes: X = 0 (Tubes), X = 4 (Tape & Reel)

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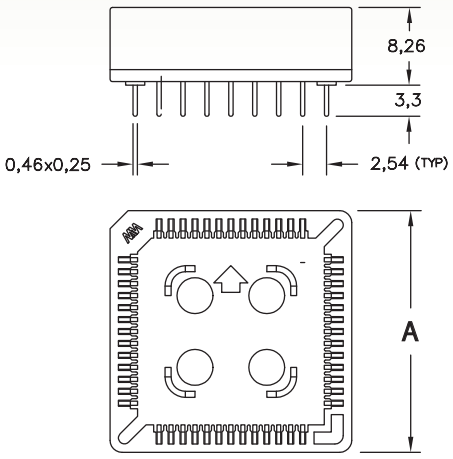
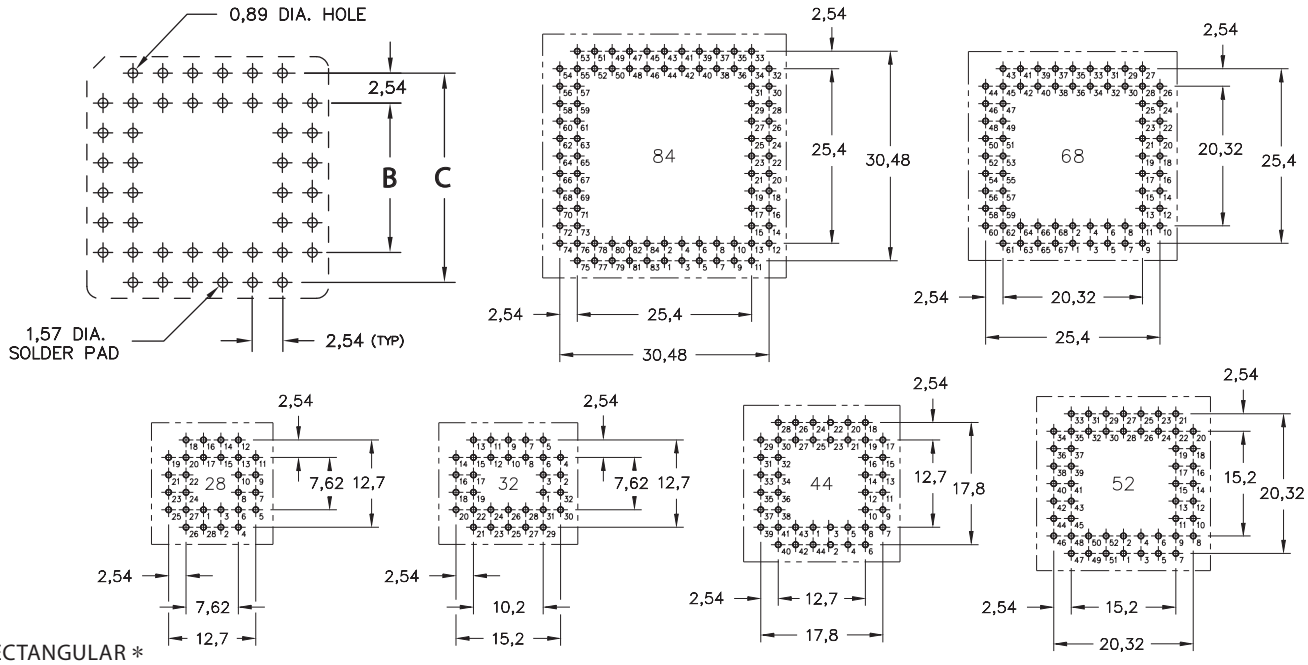
STANDARD PLCC SOCKETS

SERIES 940 • THROUGH-BOARD MOUNT



- Note: Not end stackable
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates
- Internal standoffs insure proper positioning of chip carrier in socket
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81µm tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details

PRINTED CIRCUIT DRILLING PATTERNS
(TOP VIEW)
0,89 dia. min. mounting holes



RECTANGULAR *

Number of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	15,57	5,08	10,16	38
28	940-44-028-24-000000	18,11	7,62	12,7	33
32 *	940-44-032-24-000000 *	20,7 / 18,1	10,2 / 7,62	15,2 / 12,7	29
44	940-44-044-24-000000	23,19	12,7	17,8	26
52	940-44-052-24-000000	25,73	15,24	20,32	23
68	940-44-068-24-000000	30,81	20,32	25,4	19
84	940-44-084-24-000000	35,89	25,4	30,48	16
100	940-44-100-24-000000	40,72	30,48	35,56	25
	Plating Code 44 ◆ = 150 µ" Sn				

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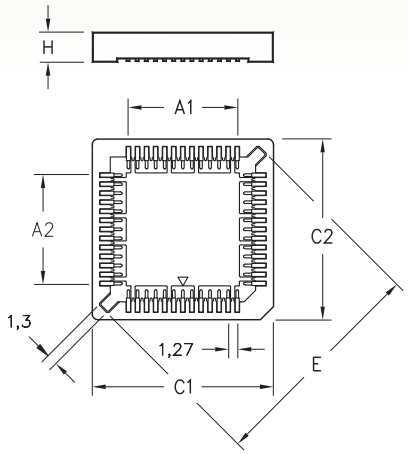
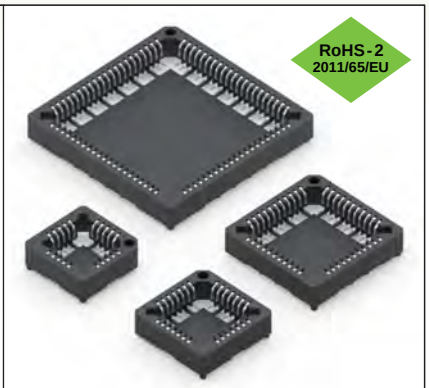
COMPACT PLCC SOCKETS

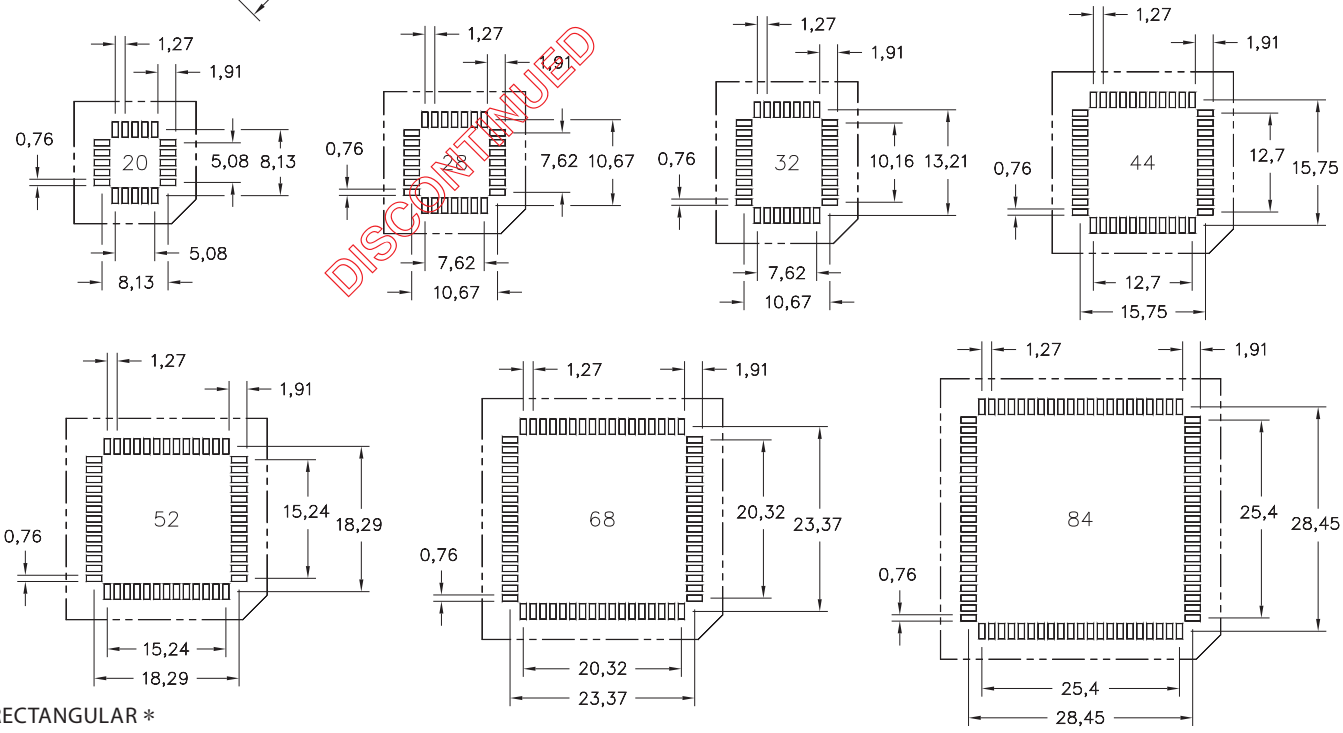
SERIES 540 • SURFACE MOUNT



- Note: Not end stackable
- Designed for JEDEC type devices
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads
- Contacts are plated with 3,81µm tin
- The insulator is molded PPS (Ryton R-4)
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



DISCONTINUED

RECTANGULAR *

Number of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	5,08	5,08	14,86	14,86	16,69	4,57	34	24	490
28	540-44-028-17-40000X	7,62	7,62	17,4	17,4	20,29	4,57	29	32	400
32 *	540-44-032-17-40000X *	7,62	10,16	17,02	19,56	22,48	3,76	26	32	400
44	540-44-044-17-40000X	12,7	12,7	22,48	22,48	27,48	4,57	22	44	250
52	540-44-052-17-40000X	15,24	15,24	25,4	25,4	31,09	4,57	20	44	250
68	540-44-068-17-40000X	20,32	20,32	30,53	30,53	38,28	4,57	16	44	220
84	540-44-084-17-40000X	25,4	25,4	35,56	35,56	45,49	4,57	14	56	200

Packaging Codes: X = 0 (Tubes), X = 4 (Tape & Reel)

DISCONTINUED DISCONTINUED DISCONTINUED DISCONTINUED DISCONTINUED

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IO SOCKETS

IO SOCKETS

SERIES 896, 897 • UNIVERSAL SERIAL BUS 3.0 • SOCKETS

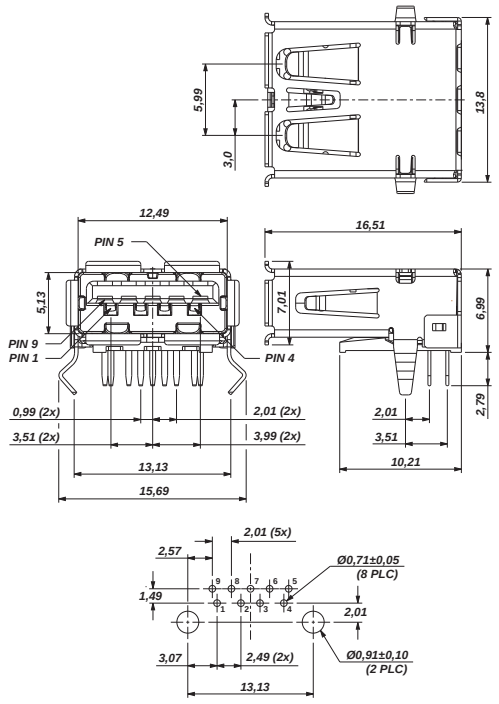

FIG. 1

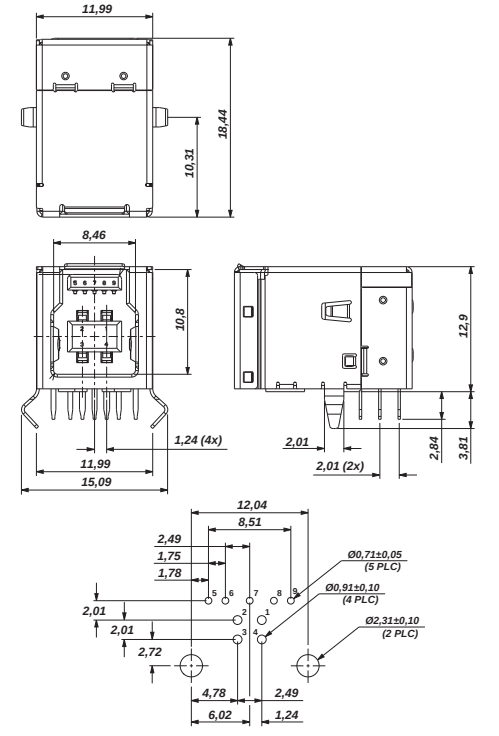

FIG. 2

- USB 3.0 receptacles for through-hole mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Packaged in trays:
  896-46-009-90-300000 - 100 pieces per tray
  897-46-009-90-300000 - 80 pieces per tray

ORDERING INFORMATION

FIG. 1	**USB 3.0 Type A Receptacle, Single, Through-Hole**
	896-46-009-90-300000
FIG. 2	**USB 3.0 Type B Receptacle, Single, Through-Hole**
	897-46-009-90-300000

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, Gold Flash over PdNi
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:
Voltage: 30VAC (rms)
Current: 1.5A PWR/GND pins
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:
Contact resistance: 30mΩ max. for power and ground pins
50mΩ max. for all others
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC at sea level
Capacitance: 2pF max.

Mechanical:
Random vibration: No discontinuity >1μs per EIA 364-28, cond. VII, letter D
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 5000 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:
Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31
Temperature life per EIA 364-17, method A
Solderability per EIA 364-52, category 2

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SERIES 896, 897 • UNIVERSAL SERIAL BUS • SOCKETS

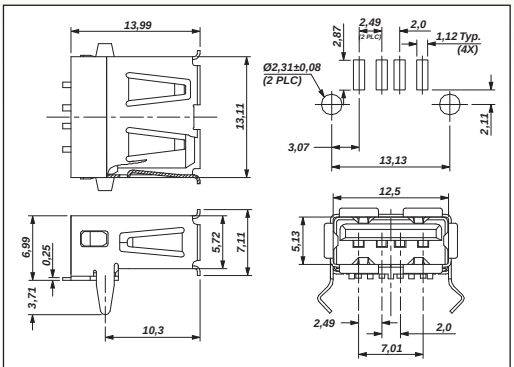

FIG. 1

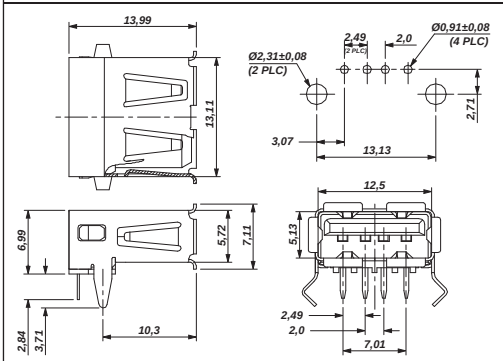

FIG. 2

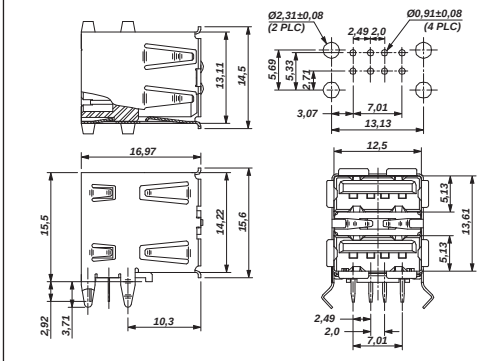

FIG. 3

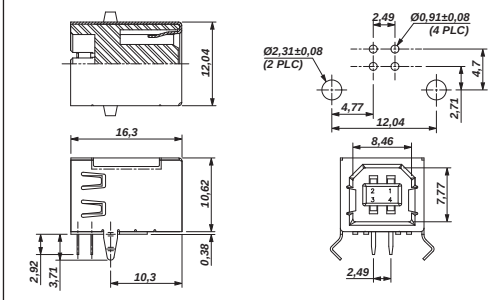

FIG. 4

- USB receptacles for through-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully compatible with USB 1.0 and 2.0 specifications
- Passes 16MHz signal attentuation per ASTM-D-4566
- Packaged in trays, 150 pieces per tray

ORDERING INFORMATION

FIG. 1	**Type A Receptacle, Single, Surface Mount**
	896-43-004-00-000000
FIG. 2	**Type A Receptacle, Single, Through-Hole**
	896-43-004-90-000000
FIG. 3	**Type A Receptacle, Double, Through-Hole**
	896-43-008-90-000000
FIG. 4	**Type B Receptacle, Single, Through-Hole**
	897-43-004-90-000000

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals: Copper Alloy, Tin-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:
Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:
Contact resistance: 30mΩ max.
Insulation resistance: 1000MΩ min.
Dielectric withstanding voltage: 750VAC at sea level
Capacitance: 2pF max.

Mechanical:
Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 1500 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: 10 Newtons min. per EIA 364-13

Environmental:
Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method II, condition A
Temperature life per EIA 364-17, condition 3, method A

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IO SOCKETS

SERIES 897 • UNIVERSAL SERIAL BUS 3.0 MICRO-B • SURFACE MOUNT SOCKETS

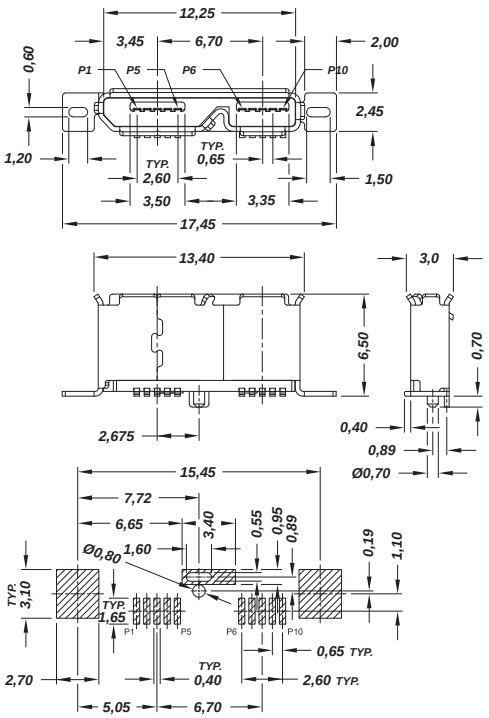

FIG. 1

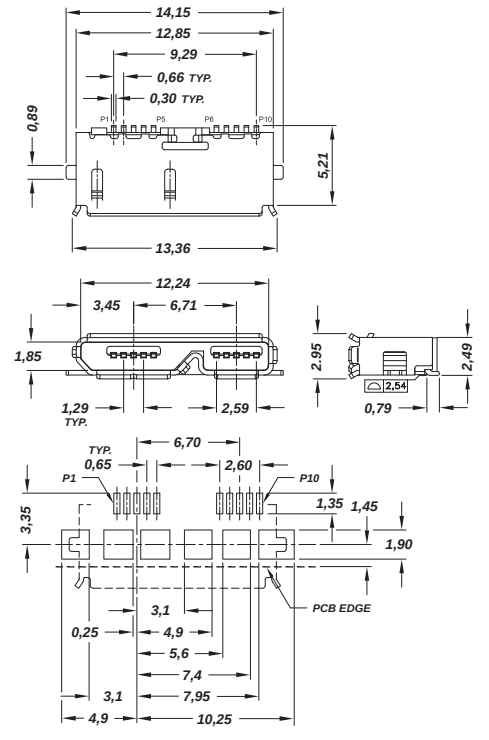

FIG. 2

- USB 3.0 Micro-B receptacles for surface mount
- Reduced mounting space
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Smaller and lighter than existing USB connectors, for portable & handheld devices
- Packaged on Tape and Reel:
  897-10-010-00-300002 - 900 pieces per reel
  897-10-010-40-300002 - 1,500 pieces per reel

ORDERING INFORMATION

FIG. 1	**Micro Type B Receptacle, Single, Vertical Surface Mount**
	897-10-010-00-300002
FIG. 2	**Micro Type B Receptacle, Single, Surface Mount**
	897-10-010-40-300002

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals: Copper Alloy, Gold Flash over Ni
Contacts: Copper Alloy, 0,38µm Gold-Plated over Ni
Shell material: Stainless Steel, Nickel-Plated
Insulator material: High temperature LCP thermoplastic rated UL94V-0

Ratings:
Voltage: 30VAC (rms)
Current: 1.5A (Pin 1 and 5), .25A (other pins)
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:
Contact resistance: 30mΩ max. (Pin 1 and 5)
50mΩ max. (other pins)
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC for 1 minute at sea level

Mechanical:
Random vibration: No discontinuity >1µs per EIA 364-28, cond. V, letter A
Durability: 10,000 cycles max. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:
Operating Temperature Range: -40°C to +85°C
Humidity per EIA 364-31, method II, condition A
Temperature Life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2 (260°C for 3 seconds)

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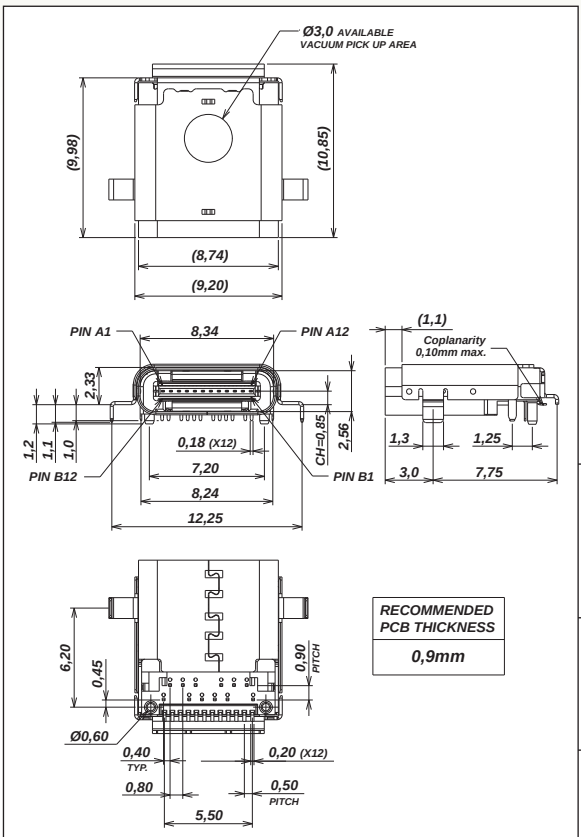
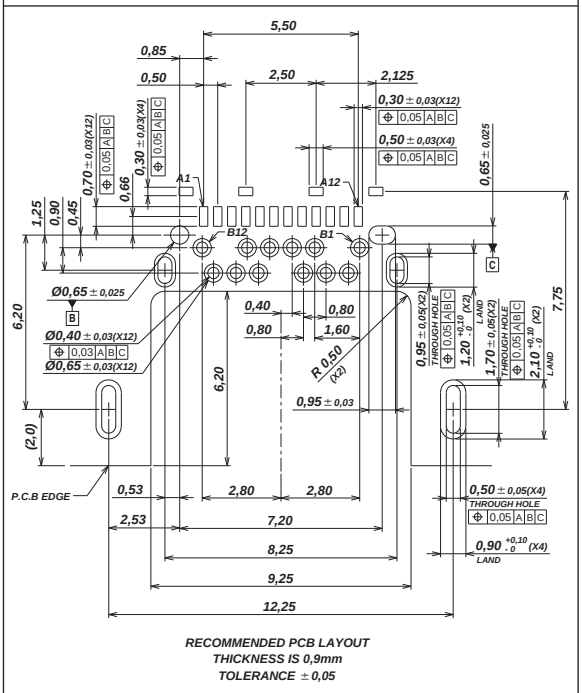
IO SOCKETS

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • MID-MOUNT RECEPTACLE





RECOMMENDED PCB LAYOUT
THICKNESS IS 0,9mm
TOLERANCE ±0,05

FIG. 1

- USB 3.1 Mid-Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment

ORDERING INFORMATION

FIG. 1	**Mid-Mount Type C Receptacle, Hybrid Layout**
	898-43-024-90-310000
	(Tape & Reel Packaged, 900 parts per 330mm reel)

Technical Specifications

RoHS-2 2011/65/EU

Materials:

Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, 0,76µm Gold-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
Operating: -55°C to +85°C
Nominal: +20°C

Electrical:

Voltage: 50VAC (rms)
LLCR: 40mΩ (initial), Δ10mΩ (after)
Dielectric Strength: 100VAC
Insulation resistance: 100MΩ min.
Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

Durability: 10,000 cycles
Insertion force: 20 Newtons max.
Extraction force: 8 Newtons min., 20 Newtons max.

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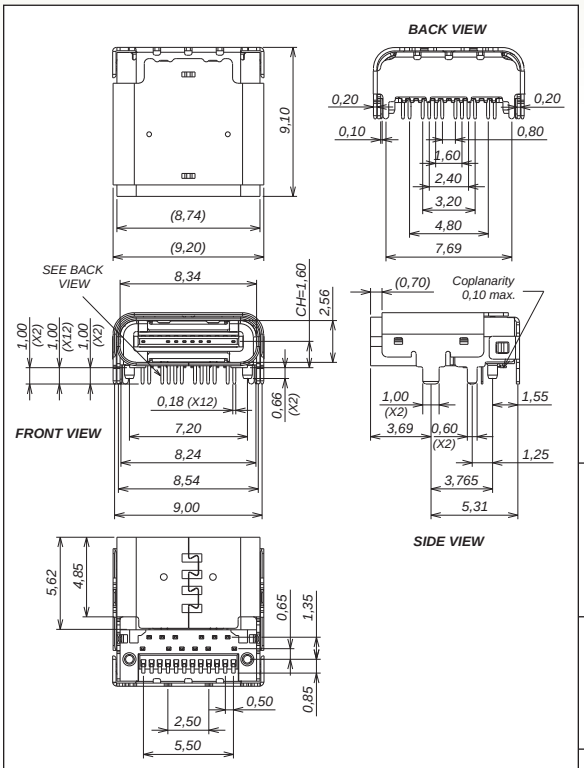
IO SOCKETS

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • TOP MOUNT RECEPTACLE



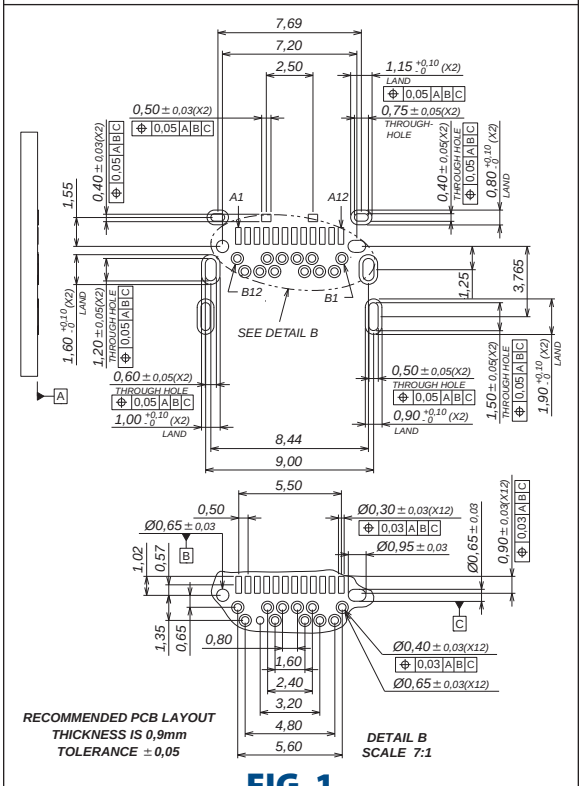


FIG. 1

- USB 3.1 Top Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment

ORDERING INFORMATION

FIG. 1	**Top Mount Type C Receptacle, Hybrid Layout**
	898-73-024-90-310001
	(Tape & Reel Packaged, 550 parts per 330mm reel)

Technical Specifications

RoHS-2 2011/65/EU

Materials:

Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, 0,76µm Gold-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
Operating: -55°C to +85°C
Nominal: +20°C

Electrical:

Voltage: 50VAC (rms)
LLCR: 40mΩ (initial), Δ10mΩ (after)
Dielectric Strength: 100VAC
Insulation resistance: 100MΩ min.
Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

Durability: 10,000 cycles
Insertion force: 20 Newtons max.
Extraction force: 8 Newtons min., 20 Newtons max.

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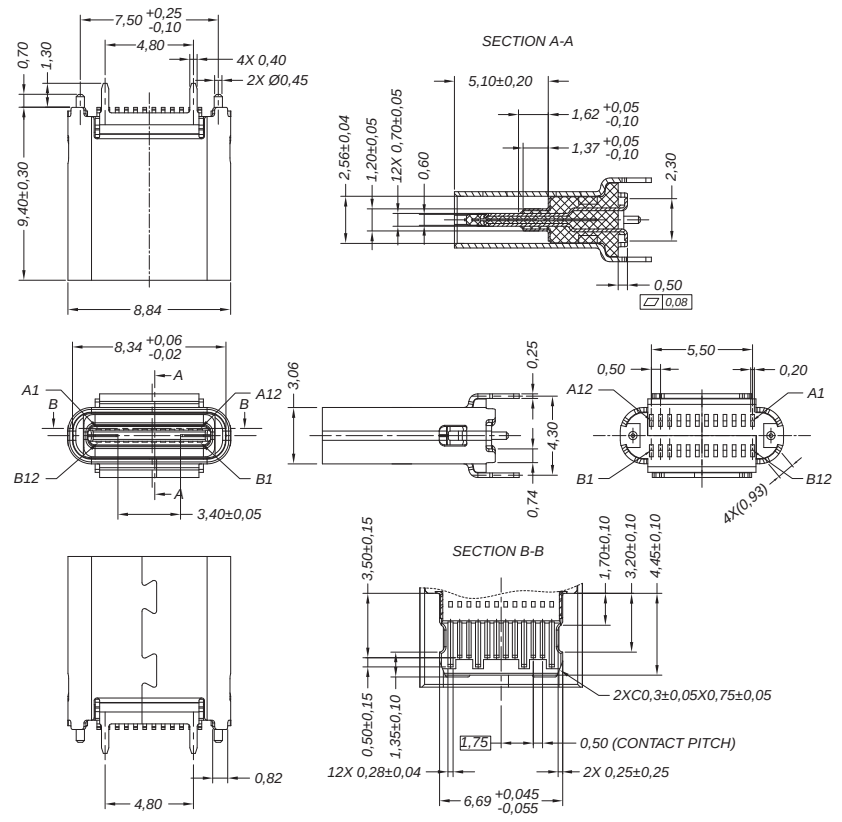
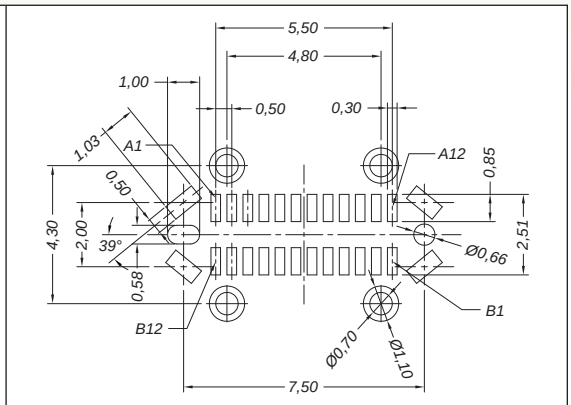
SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • VERTICAL SURFACE MOUNT





RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE)

RoHS-2 2011/65/EU

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, 30 μ" Gold-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
Operating: -40°C to +85°C
Nominal: +20°C

Electrical:

Voltage: 50VAC (rms)
LLCR: 40mΩ max. (initial), Δ10mΩ (Test cond. 20mV, 100mA)
Dielectric Strength: 100VAC
Insulation resistance: 100MΩ min.
Current Rating: 5A for VBUS pin, 1.25A for VCONN pin

Mechanical:

Durability: 10,000 cycles
Insertion force: 5-20 Newtons
Extraction force: 8-20 Newtons after test

ORDERING INFORMATION

Vertical Surface Mount Type C Receptacle

898-43-024-00-310002

(Packaged in trays: 100 pieces per tray)

- USB 3.1 Vertical Surface mount, Type C
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive and Home Entertainment

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IO SOCKETS

SERIES 896, 897 • MINI UNIVERSAL SERIAL BUS • SURFACE MOUNT SOCKETS

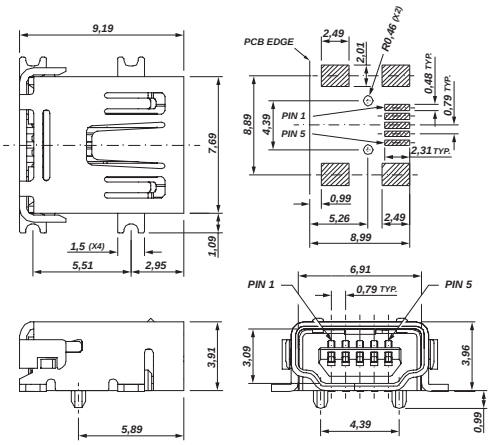

FIG. 1

- Mini USB receptacles for surface mount
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector
- Reduced mounting space
- Fully Shielded
- Fully compliant with current USB 2.0 specifications
- Smaller and lighter than standard USB connectors for portable & handheld devices
- Packaged on Tape and Reel:
  896-43-005-00-100001 - 800 pieces per reel
  897-43-005-00-100001 - 700 pieces per reel

ORDERING INFORMATION

FIG. 1	**Mini Type A Receptacle, Single, Surface Mount**
	896-43-005-00-100001
FIG. 2	**Mini Type B Receptacle, Single, Surface Mount**
	897-43-005-00-100001

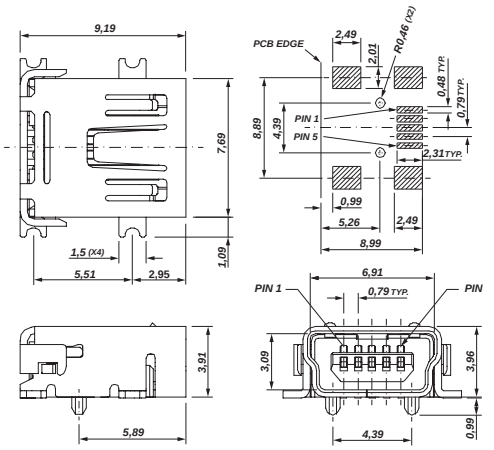

FIG. 2

Technical Specifications

RoHS-2 2011/65/EU

Materials:
Terminals: Copper Alloy, Tin Plated
Contacts: Copper Alloy, 0,76µm Gold Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:
Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:
Contact resistance: 50mΩ max.
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC at sea level
Capacitance: 2pF max.

Mechanical:
Random vibration: No discontinuity >1µs per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity >1µs per EIA 364-27, condition H
Durability: 5000 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 7 Newtons min. per EIA 364-13
After test - 3 Newtons min. per EIA 364-13
Cable pull-out force per EIA 364-38

Environmental:
Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method II, condition A
Temperature life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2

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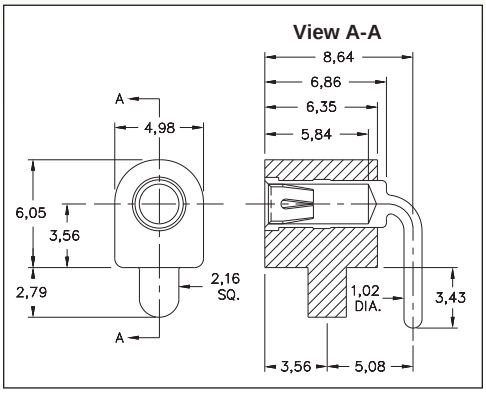
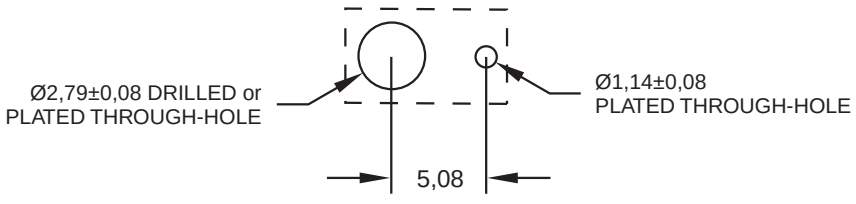
SERIES 395...3XX • RIGHT ANGLE SOCKET • TEST POINT



- Available to accept 3 pin sizes: 1, 1,5, & 2mm
- Uses high temperature PCT polyester insulator
- Standard insulator color is black
- For Electrical, Mechanical and Environmental Data, see page 264 for details

Pin Size	ORDERING INFORMATION
1.0mm	395-XX-101-34-340000
1.5mm	395-XX-101-03-380000
2.0mm	395-XX-101-07-350000

RECOMMENDED MOUNTING HOLES



XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	13 ◆		93				
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb				
Contact (Clip)	0,76µm Au		0,76µm Au				

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SERIES 388, 999 • MALE SHORTING JUMPERS & MICROPHONE SOCKETS

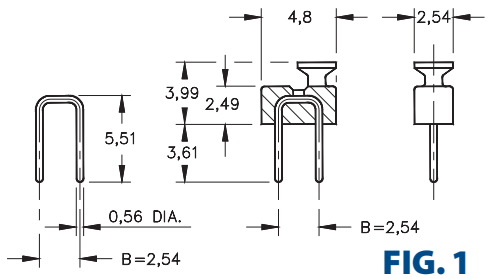


FIG. 1

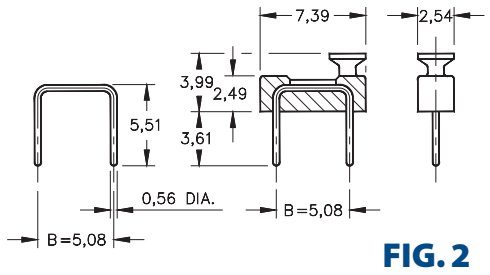


FIG. 2

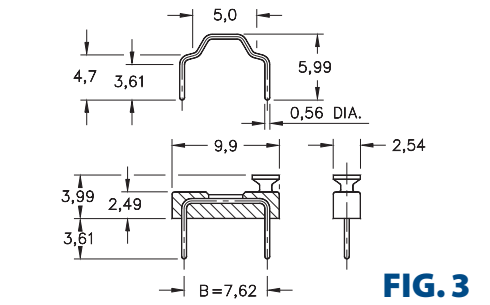
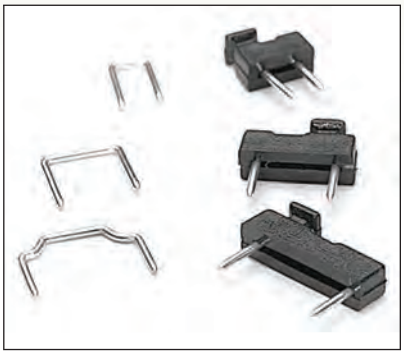


FIG. 3

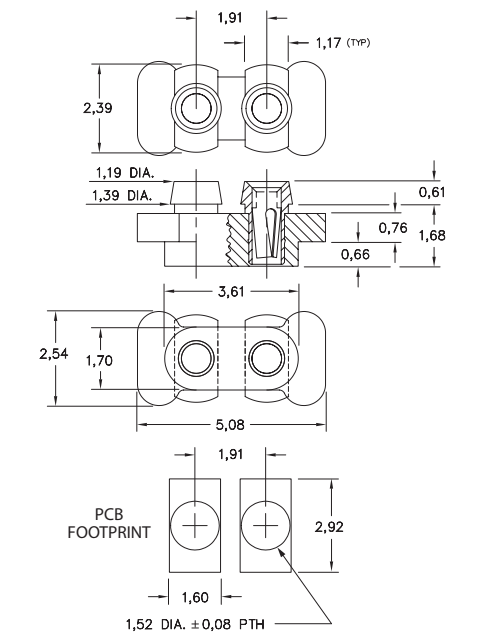
- Male shorting jumpers are available with or without insulator and have 0,56 diameter pins with 2,54, 5,08 or 7,62 center spacing
- Insulator materials are not high temperature
- For Electrical, Mechanical & Environmental Data, see page 264 for details

RoHS-2 2011/65/EU

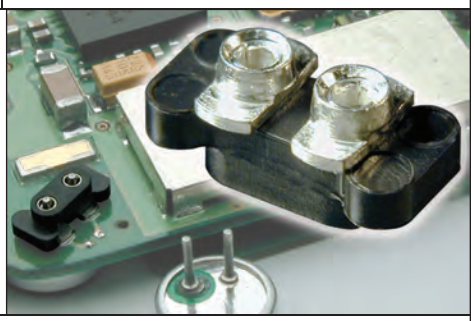


ORDERING INFORMATION

	Male Shorting Jumper 2,54 Spacing	
FIG. 1	**Color / Style**	**Plating 0,25µm Au**
	Black Not Insulated	999-11-210-10-000000 999-11-110-10-000000
	Male Shorting Jumper 5,08 Spacing	
FIG. 2	**Color / Style**	**Plating 0,25µm Au**
	Black Not Insulated	999-11-220-10-000000 999-11-112-10-000000
	Male Shorting Jumper 7,62 Spacing	
FIG. 3	**Color / Style**	**Plating 0,25µmAu**
	Black Not Insulated	999-11-230-10-000000 999-11-113-10-000000



- Series 388 microphone socket is a bottom entry socket for microphones having Ø 0,46 pins on 1,91 centers
- Designed to be surface mount and intrusive reflow soldered
- Series 388 uses MM #8874 pins. See page 159 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulator is high temperature Nylon 46, rated UL 94 V-0



Ordering Information Microphone Socket

XX=Plating Code See Below

388-XX-102-11-740800 (Discrete socket)

Plating Code

388-XX-102-11-740799 (Tape and Reel)

(Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 330mm reel)

SPECIFY PLATING CODE XX=				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				5,08µm Sn/Pb			5,08µm Sn

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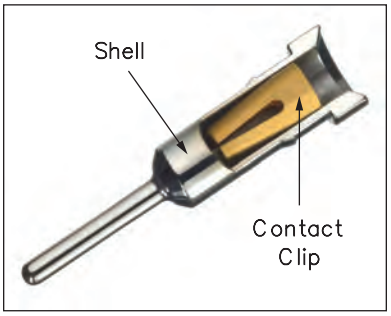
PIN RECEPTACLES

WWW.MILL-MAX.COM

The basic component used for making electrical connections in a wide array of electronic equipment is the pin receptacle. The Mill-Max pin receptacle provides a highly reliable, low resistance electrical path to terminate the pins of a device or discrete wires to a PCB or other mating apparatus such as cables, modules or other pins and wires. Assembled into sockets i.e. DIP, SIP, PGA, etc. or used discretely, receptacles make devices and modules pluggable for repair and replacement. The machined shell or housing of pin receptacles is available in various styles depending on the application, e.g. low profile, elevated, press-fit, SMT. The terminal end of pin receptacles has many variations: a round solder tail, a press-fit tail, a surface mount base, crimp barrel, soldercup, swage feature or no tail.

Inside every Mill-Max receptacle is a contact clip. A contact clip is a conductive, multi-finger, progressive die stamping. The standard material is beryllium copper and for high temperature applications, beryllium nickel is used. Both materials are heat treated to achieve optimal spring characteristics & durability. The contact clip engages, scores and holds the mated pin making an electrical and gas tight connection at 3, 4 or 6 points of contact, depending on the selected contact. Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.



Mill-Max currently offers over 39 styles of contacts to engage pins from 0,20 to 2,59 in diameter. A convenient contact selector chart is located on page 248 showing the different specifications of each contact.

Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on PC boards. They can be utilized individually or in random arrays where the usage is small. They can be handled and loaded manually in preparation for soldering or, with a different style shell, for press-fitting. When the requirement is for volume placement of receptacles, socket carriers or tape and reel packaging are tremendous labor-saving solutions for our customers.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloys 360/385: 1,57/1,83/1,98/2,36/3,18/3,96/4,75/6,35 diameters
PHOSPHOR BRONZE Alloy 544: 1,57/1,83/1,98 diameters
TELLURIUM COPPER Alloy 145: 2,01/2,36/3,18/3,96 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page **247** or send us your own drawings. We assure you a fast response.

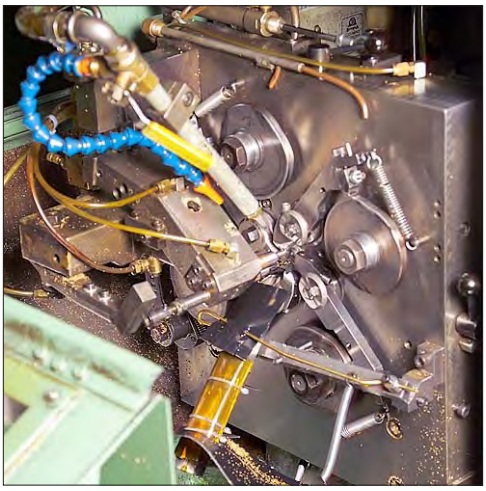
CUSTOM MACHINING CAPABILITY

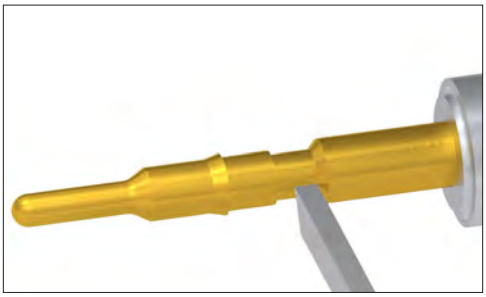
DON'T SEE QUITE WHAT YOU'RE LOOKING FOR IN THE PIN & RECEPTACLE SECTION OF THE CATALOG?

Mill-Max's unique high-speed precision-machining capability enables us to provide custom-designed pins or receptacles tailored to meet your specific requirement.

With over 200 high-speed turning machines on our premises in Oyster Bay, NY, Mill-Max is readily equipped to provide custom pins, terminals and receptacles to your exacting specifications.

Moreover, our in-house, state-of-the-art plating equipment allows us to plate your custom pin with a selection of industry standard finishes. Initial quantities are typically shipped in 5-6 weeks.





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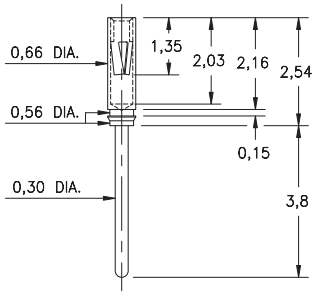
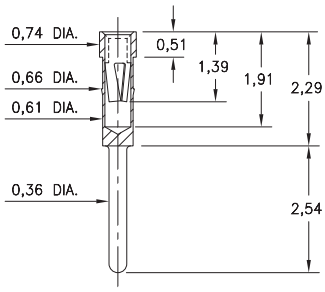
PIN RECEPTACLES

FOR 0,20 - 0,33 DIAMETER PINS (#04 CONTACT) AND 0,30 - 0,43 DIAMETER PINS (#10 CONTACT) (SEE SPECIFIC CONTACT RANGE ON PAGE 250)

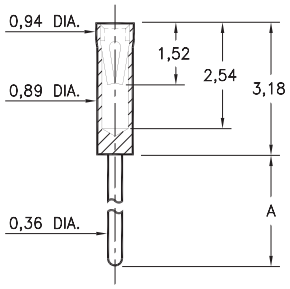
8210
8210-0-15-15-04-27-04-0
Press-fit in 0,61/0,68 stepped hole



0439
0439-0-15-15-04-27-04-0
Press-fit in 0,64 mounting hole

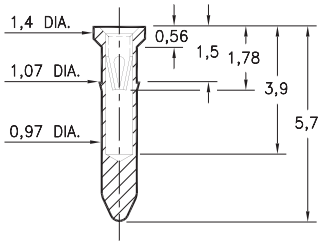


X464
X464-X-15-XX-10-XX-04-0
Solder mount in 0,41 min. mounting hole

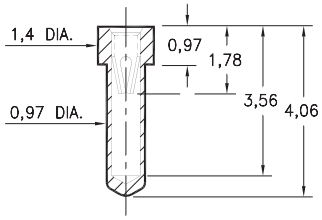


Basic Part Number	Length A
0464-0	3,18
0464-1	6,35
6464-0	6,99

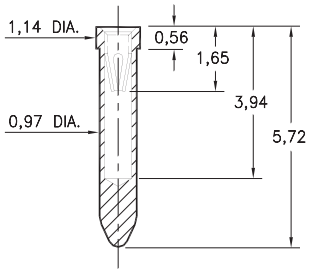
9225
9225-0-15-XX-10-XX-10-0
Press-fit in 1,0 mounting hole



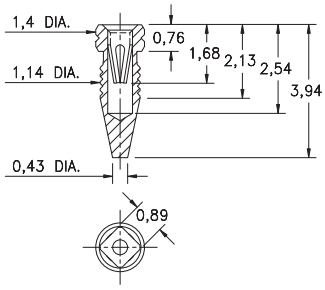
0529
0529-0-15-XX-10-XX-10-0
Solder mount in 1,02 min. mounting hole



8947
8947-0-15-XX-10-XX-10-0
Solder mount in 1,02 min. mounting hole



4993
4993-0-15-15-10-27-10-0
Compliant press-fit in 1,04 - 1,12 Dia. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#04 or #10 CONTACT (DATA ON PAGE 250)
(CONTACTS #04 & #10 NOT INTERCHANGEABLE)

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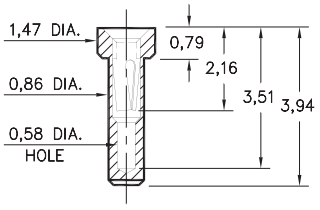
PIN RECEPTACLES

FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT) AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT) (SEE SPECIFIC CONTACT RANGE ON PAGE 251)

0548

0548-0-15-XX-21-XX-10-0

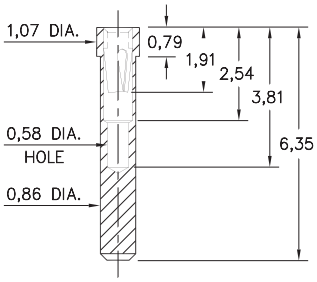
Solder mount in 0,91 min. mounting hole



8975

8975-0-15-XX-21-XX-10-0

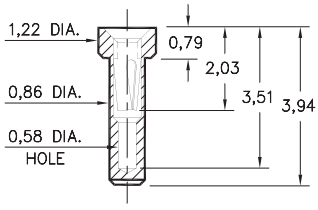
Solder mount in 0,91 min. mounting hole



3016

3016-0-15-XX-21-XX-10-0

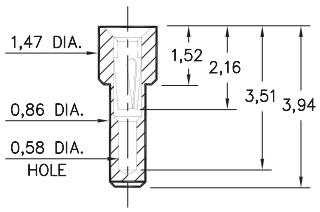
Solder mount in 0,91 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 330mm reel
See page 194.2 for Tape & Reel details



9548

9548-0-15-XX-21-XX-10-0

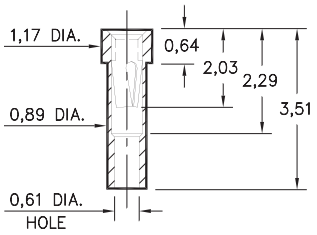
Solder mount in 0,91 min. mounting hole



8637

8637-0-15-XX-21-XX-10-0

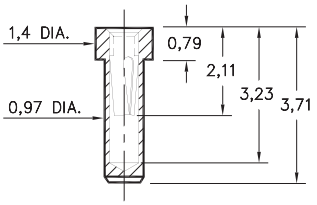
Solder mount in 0,94 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
See page 194.2 for Tape & Reel details



1407

1407-0-15-XX-11-XX-10-0

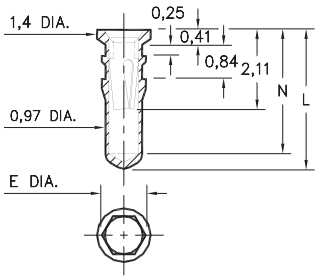
Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
See page 194.1 for Tape & Reel details



0553/4553/8553

X553-X-15-XX-X1-XX-10-0

Also available on 16mm wide carrier tape:
1,580 parts per 330mm reel
See page 194.1 for Tape & Reel details



Hex press-fit in 1,04 plated through-hole for Part Numbers 0553-X and 8553-0 ONLY

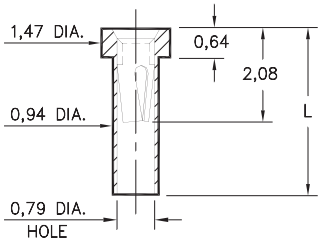
Hex press-fit in 1,07 plated through-hole for Part Number 4553-0 ONLY

Basic Part Number	Hex Dia. E	Length L	Depth N
0553-1	1,12	3,56	3,15
0553-2	1,12	4,32	3,91
0553-3	1,12	7,16	6,76
4553-0	1,14	4,32	3,91
8553-0	1,12	6,22	5,82

0566

0566-X-15-XX-21-XX-10-0

Solder mount in 1,0 min. mounting hole

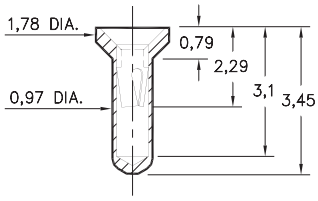


Basic Part Number	Length L
0566-1	2,11
0566-2	3,51

0442

0442-0-15-XX-11-XX-10-0

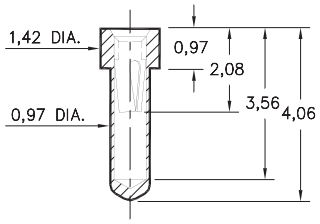
Solder mount in 1,02 min. mounting hole



0554

0554-0-15-XX-21-XX-10-0

Solder mount in 1,02 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

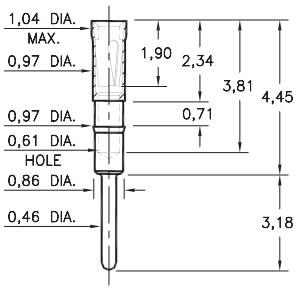
SELECT CONTACT:
#11 or #21 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

PIN RECEPTACLES

FOR 0,38 - 0,46 DIAMETER PINS (#09 CONTACT)
FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT)

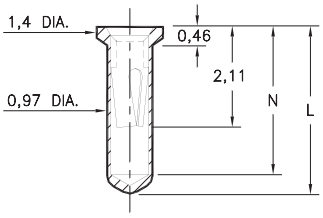
0467
0467-0-15-XX-21-XX-04-0

Press-fit in 0,94 mounting hole



0552
0552-X-15-XX-X1-XX-10-0

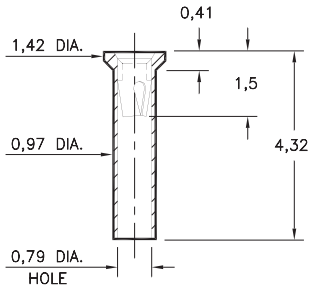
Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
See page 194.2 for Tape & Reel details



Basic Part Number	Length L	Depth N
0552-1	3,45	3,05
0552-2	4,32	3,81

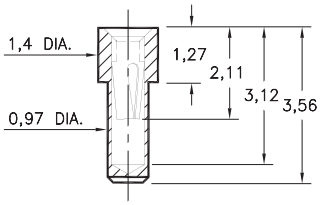
5522
5522-0-15-XX-XX-XX-10-0

Solder mount in 1,02 min. mounting hole



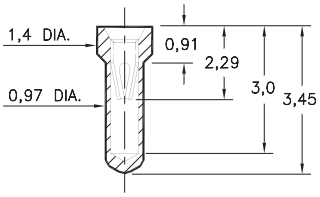
0569
0569-0-15-XX-X1-XX-10-0

Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
See page 194.2 for Tape & Reel details



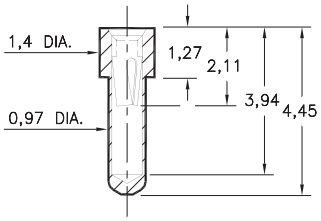
6023
6023-0-15-XX-21-XX-10-0

Solder mount in 1,02 min. mounting hole



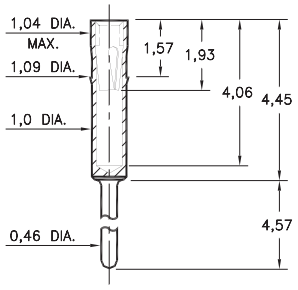
6214
6214-0-15-XX-21-XX-10-0

Solder mount in 1,02 min. mounting hole



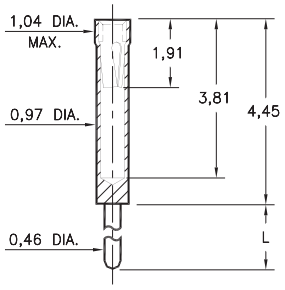
2086
2086-0-15-XX-21-XX-04-0

Press-fit in 1,02 mounting hole



0461
0461-X-15-XX-X1-XX-04-0

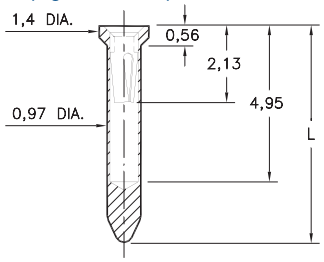
Solder mount in 0,51 min. mounting hole



Basic Part Number	Length L
0461-0	10,16
0461-1	6,99
0461-2	4,57
0461-3	3,18
0461-4	1,52
0461-5	11,18

8579
8579-X-15-XX-X1-XX-10-0

Solder mount in 1,02 min. mounting hole
Also available on 24mm wide carrier tape
See chart for details
See page 194.2 for Tape & Reel details



Basic Part Number	Length L
8579-0	5,94
8579-1	7,49

T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
8579-0	24mm	1,200
8579-1	24mm	1,000

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- ◆ **84** 2,54µm TIN OVER NICKEL (RoHS)
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#09, #11 or #21 CONTACT (DATA ON PAGES 250 & 251)
(For alternate contact choices, see group A on page 248)

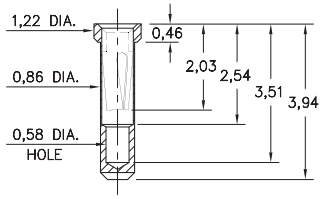
PIN RECEPTACLES

FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT) AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT) (SEE SPECIFIC CONTACT RANGE ON PAGE 251)

4716

4716-0-15-XX-21-XX-10-0

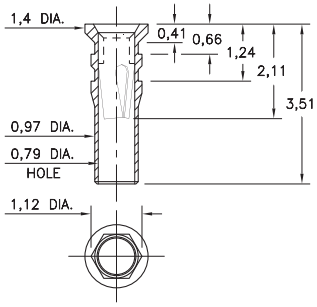
Solder mount in 0,97 min. mounting hole



6553

6553-0-15-XX-11-XX-10-0

Hex press-fit in 1,04 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 15 - XX - X1 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

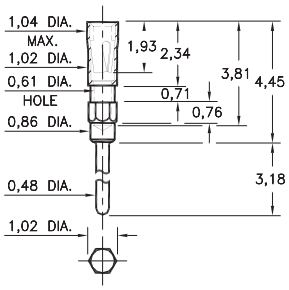
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#11 or #21 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

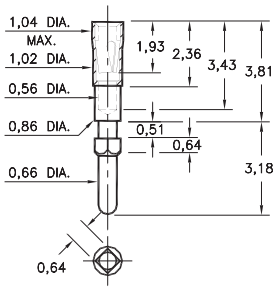
PIN RECEPTACLES

FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT) AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT) (SEE SPECIFIC CONTACT RANGE ON PAGE 251)

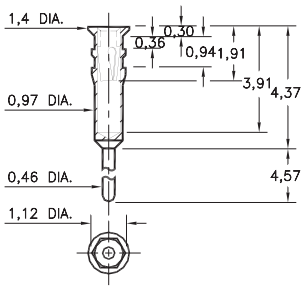
8467
8467-0-15-XX-21-XX-04-0
Hex press-fit in 0,91 plated through-hole



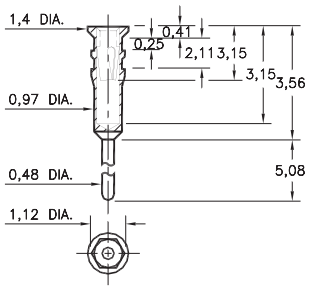
6192
6192-0-15-XX-21-XX-04-0
Square press-fit in 0,81 plated through-hole



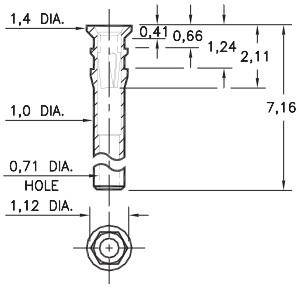
9553
9553-0-15-XX-X1-XX-04-0
Hex press-fit in 1,04 plated through-hole



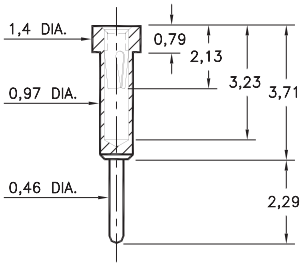
5531
5531-0-15-XX-21-XX-10-0
Hex press-fit in 1,04 plated through-hole



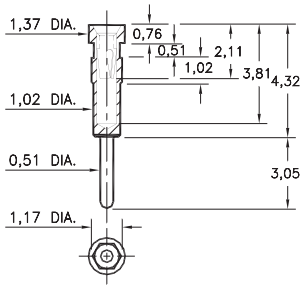
7553
7553-0-15-XX-11-XX-10-0
Hex press-fit in 1,04 plated through-hole



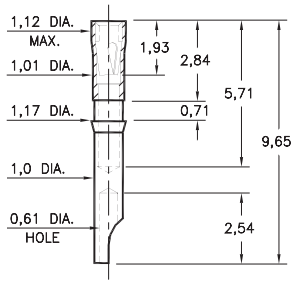
9407
9407-0-15-XX-11-XX-10-0
Solder mount in 1,02 min. mounting hole



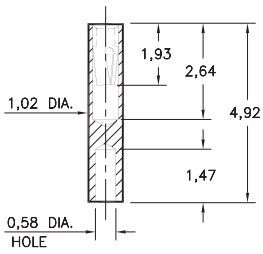
9462
9462-0-15-XX-21-XX-04-0
Hex press-fit in 1,09 plated through-hole



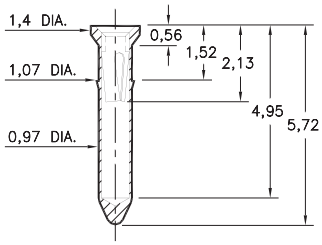
1147
1147-0-18-XX-21-XX-10-0
Press-fit in 1,09 min. mounting hole
Accepts wire sizes up to 0,36 dia.



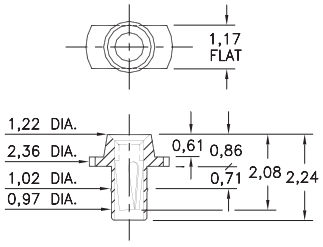
3061
3061-0-19-XX-21-XX-10-0
Wire Crimp Termination. Accepts wire sizes 28 AWG Max. / 32 AWG Min.



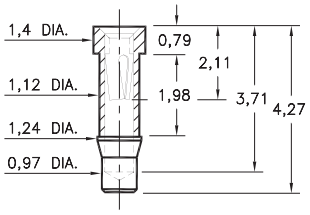
0579
0579-0-15-XX-X1-XX-10-0
Press-fit in 1,02 mounting hole



8874
8874-0-15-XX-11-XX-10-0
Bottom entry surface mount
See page 152 for application details



0613
0613-0-15-XX-21-XX-10-0
Press-fit in 1,19 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- ◆ **84** 2,54µm TIN OVER NICKEL (RoHS)
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#11 or #21 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

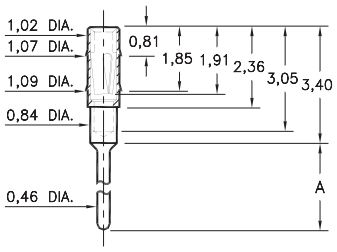
PIN RECEPTACLES

FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT) AND 0,38 - 0,56 DIAMETER PINS (#05 & #21 CONTACTS) (SEE SPECIFIC CONTACT RANGE ON PAGE 251)

0489

0489-X-15-XX-11-XX-04-0

Press-fit in 1,04 mounting hole

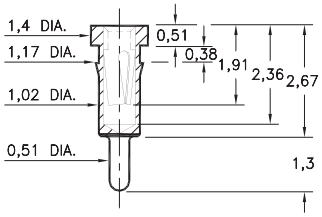


Basic Part Number	Length A
0489-0	2,59
0489-1	5,05
0489-2	7,59

0463

0463-0-15-XX-21-XX-04-0

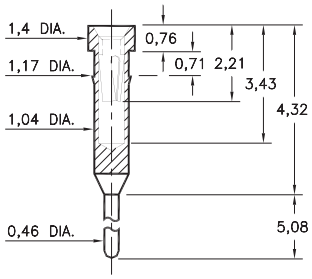
Press-fit in 1,09 mounting hole.
Shell is Phosphor Bronze Alloy 544 (B2)



0466

0466-0-15-XX-21-XX-04-0

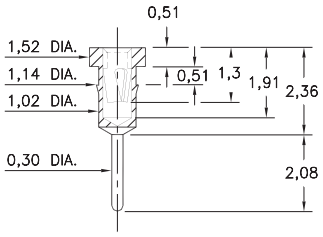
Press-fit in 1,09 mounting hole.
Shell is Phosphor Bronze Alloy 544 (B2)



7491

7491-0-15-XX-09-XX-04-0

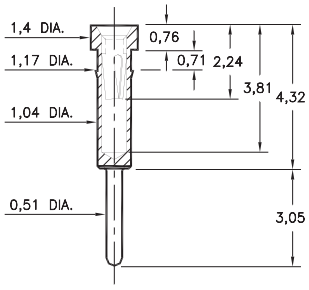
Press-fit in 1,07 mounting hole
∗Contact substitution not recommended



0462

0462-0-15-XX-X1-XX-04-0

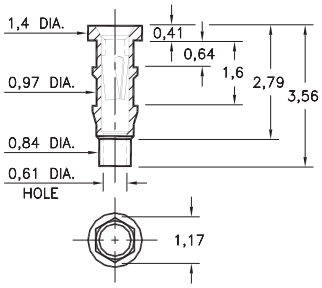
Press-fit in 1,09 mounting hole



0560

0560-0-15-XX-11-XX-10-0

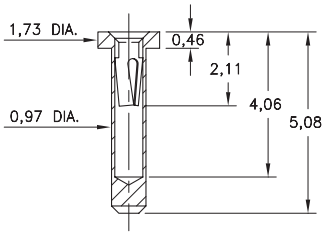
Hex press-fit in 1,09 plated through-hole



5552

5552-0-15-XX-05-XX-10-0

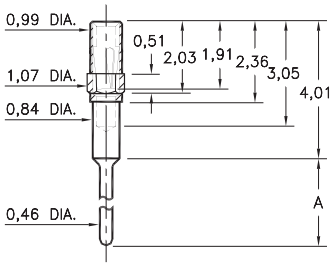
Solder mount in 1,02 min. mounting hole



4890

4890-X-15-XX-11-XX-04-0

Octagonal press-fit in 1,04 mounting hole

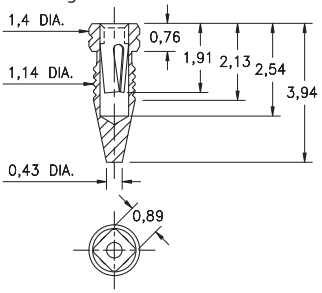


Basic Part Number	Length A
4890-0	2,59
4890-1	5,05
4890-2	7,59

4994

4994-0-15-15-11-27-10-0

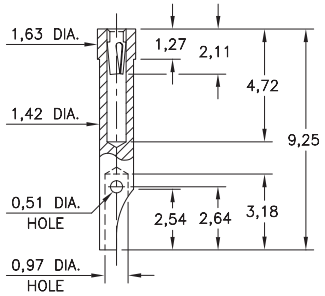
Compliant press-fit in 1,04 - 1,12 dia. mounting hole



4485

4485-0-51-XX-21-XX-10-0

Solder mount in 1,5 min. mounting hole
For wire sizes up to 22 AWG



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#05, #11 or #21 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

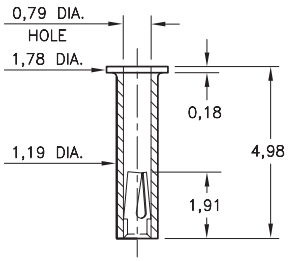
PIN RECEPTACLES

FOR 0,38 - 0,56 DIAMETER PINS

6561

6561-0-15-XX-05-XX-10-0

Solder mount in 1,3 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 05 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

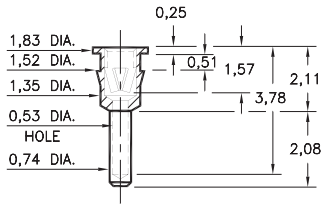
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#05 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

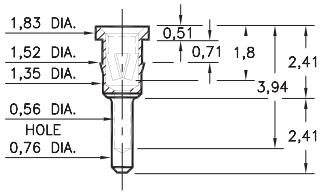
PIN RECEPTACLES

FOR 0,38 - 0,56 DIAMETER PINS

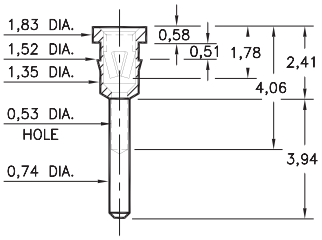
0512
0512-0-15-XX-12-XX-04-0
Press-fit in 1,45 mounting hole



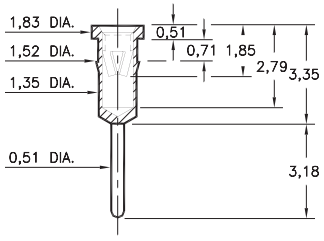
0703
0703-0-15-XX-12-XX-04-0
Press-fit in 1,45 mounting hole



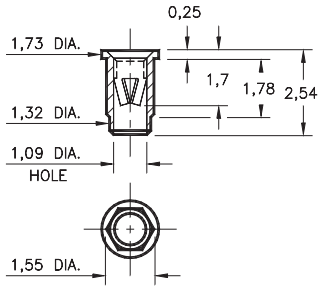
0574
0574-0-15-XX-12-XX-04-0
Press-fit in 1,45 mounting hole



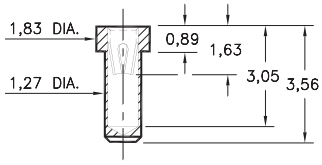
0468 *
0468-0-15-XX-12-XX-04-0
Press-fit in 1,45 mounting hole



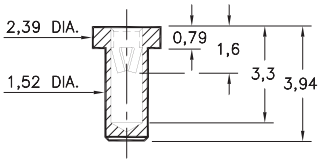
8894 *
8894-0-15-XX-12-XX-10-0
Hex press-fit in 1,5 plated through-hole



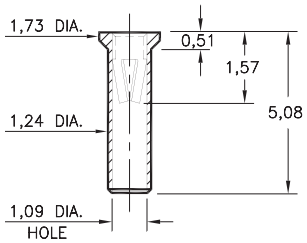
0550 *
0550-0-15-XX-22-XX-10-0
Solder mount in 1,32 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
See page 194.2 for Tape & Reel details



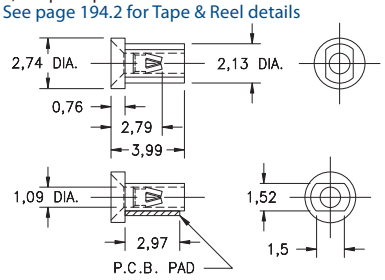
0671 *
0671-0-15-XX-12-XX-10-0
Solder mount in 1,6 min. mounting hole



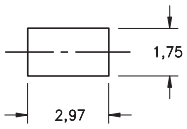
0707 *
0707-0-15-XX-12-XX-10-0
Solder mount in 1,3 min. mounting hole



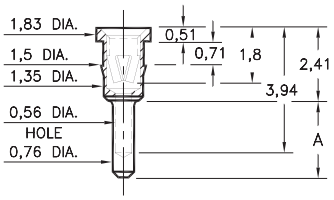
5739 *
5739-0-18-XX-12-XX-10-0
Surface mount
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel
See page 194.2 for Tape & Reel details



P.C.B. Layout



1534
1534-X-15-XX-12-XX-04-0
Press-fit in 1,42 mounting hole



Basic Part Number	Length A
1534-0	2,41
1534-1	3,18

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#12 or #22 CONTACT (DATA ON PAGE 252)

* (Contact may be interchanged with group B or C contact on page 248)

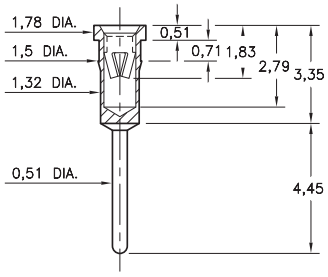
PIN RECEPTACLES

FOR 0,38 - 0,56 DIAMETER PINS

9900

9900-0-15-XX-22-XX-04-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 22 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

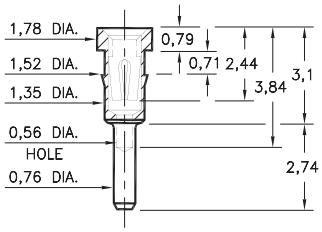
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#22 CONTACT (DATA ON PAGE 252)
(For alternate contact choices, see group B on page 248)

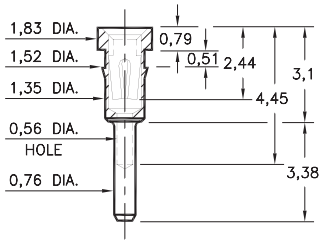
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

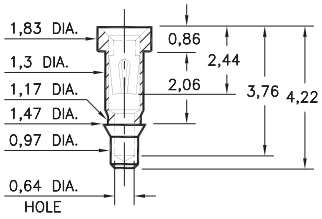
0501
0501-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



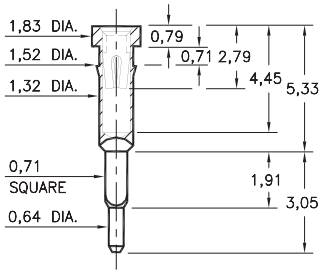
8427
8427-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



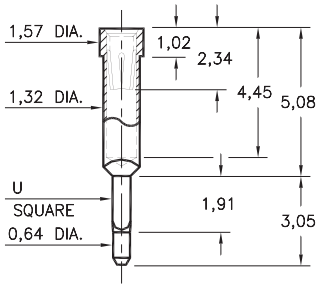
1434
1434-0-15-XX-30-XX-10-0
Press-fit in 1,4 mounting hole



9970
9970-0-15-XX-30-XX-04-0
Square press-fit in 0,81 ± 0,05 plated through-hole

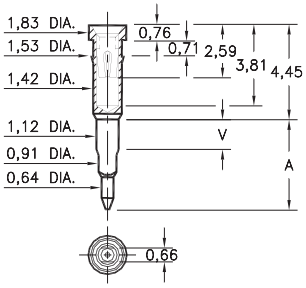


5970
5970-X-15-XX-32-XX-04-0
Square press-fit for 0,81 or 1,0 ± 0,05 plated through-hole



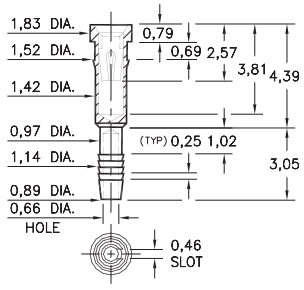
Basic Part Number	U Square	Mounting Hole
5970-1	0,71	0,81
5970-2	0,86	1,0

0477/0478
047X-0-18-XX-30-XX-04-0
Solderless press-fit in 0,97 +0,08 / -0,05 plated through-hole (use 1.1mm drill prior to plating)

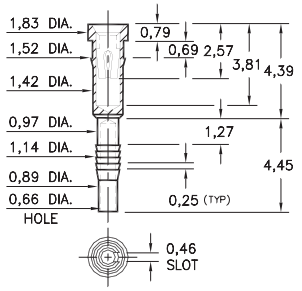


Basic Part Number	Board Thick-ness	Length V	Length A
0477-0	1,57	1,91	4,45
0478-0	3,18	3,56	6,35

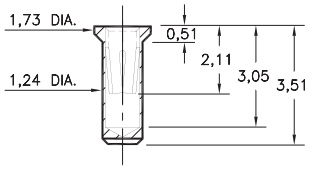
4612
4612-0-31-XX-30-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 1,52 → 2,54 thick board



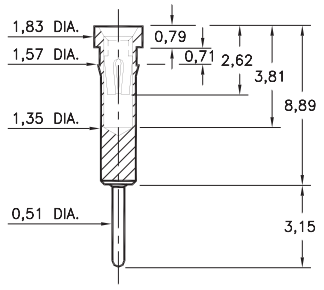
4613
4613-0-31-XX-30-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



0680
0680-0-15-XX-32-XX-10-0
Solder mount in 1,3 min. mounting hole
Also available on 16mm wide carrier tape: 1,700 parts per 330mm reel
See page 194.4 for Tape & Reel details



0149
0149-0-15-XX-30-XX-04-0
Press-fit in 1,5 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

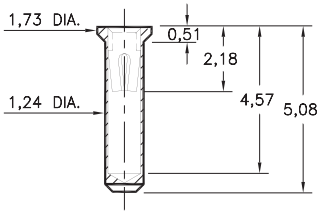
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

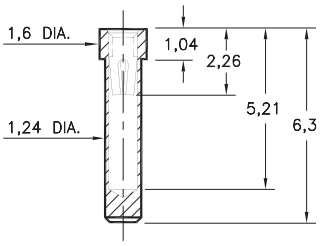
0660
0660-0-15-XX-30-XX-10-0

Solder mount in 1,3 min. mounting hole



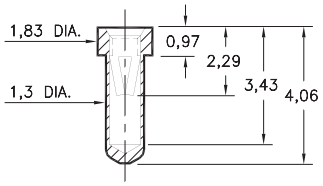
0677
0677-0-15-XX-30-XX-10-0

Solder mount in 1,3 min. mounting hole
Also available on 24mm wide carrier tape:
1,200 parts per 330mm reel
Order as: 0677-0-57-XX-30-XX-10-0



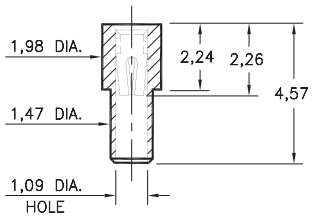
0555
0555-0-15-XX-32-XX-10-0

Solder mount in 1,35 min. mounting hole
Also available on 16mm wide carrier tape:
1,800 parts per 330mm reel
See page 194.4 for Tape & Reel details



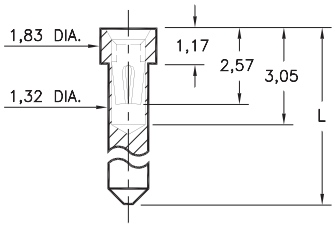
0558
0558-0-15-XX-30-XX-10-0

Solder mount in 1,55 min. mounting hole



0675/0679
067X-0-15-XX-30-XX-10-0

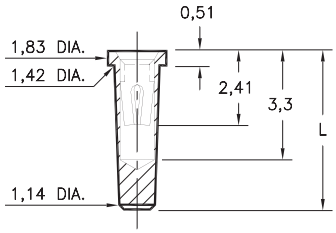
Solder mount in 1,37 min. mounting hole



Basic Part Number	Length L
0675-0	3,68
0679-0	5,16

1065/1066/7065
X06X-0-15-XX-30-XX-10-0

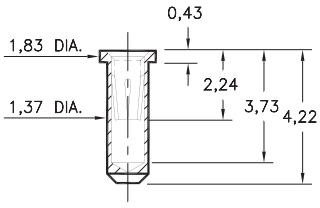
Solder mount in 1,4 min. mounting hole



Basic Part Number	Length L
1065-0	4,83
1066-0	4,06
7065-0	4,6

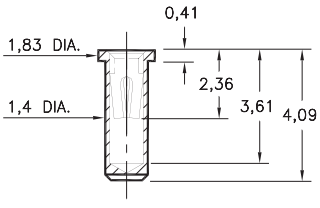
0682
0682-0-15-XX-32-XX-10-0

Solder mount in 1,42 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
See page 194.4 for Tape & Reel details



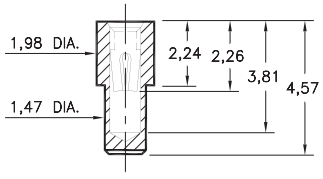
0667
0667-0-15-XX-30-XX-10-0

Solder mount in 1,45 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
See page 194.3 for Tape & Reel details



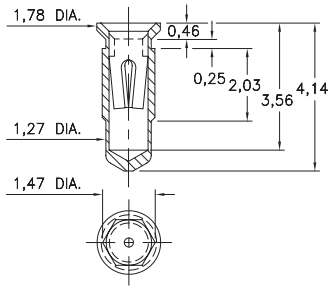
0665
0665-0-15-XX-30-XX-10-0

Solder mount in 1,55 min. mounting hole
Also available on 16mm wide carrier tape:
1,580 parts per 330mm reel
See page 194.3 for Tape & Reel details



4286
4286-0-15-XX-30-XX-10-0

Hex press-fit in 1,4 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

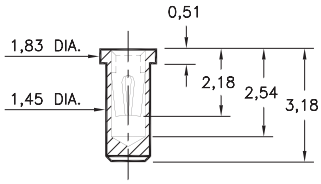
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

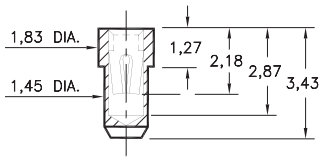
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

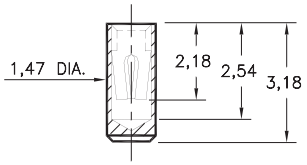
0669
0669-0-15-XX-30-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
See page 194.3 for Tape & Reel details



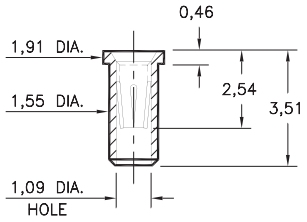
0670
0670-0-15-XX-30-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
See page 194.3 for Tape & Reel details



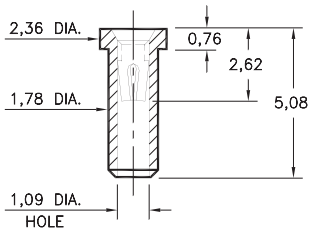
0673
0673-0-15-XX-30-XX-10-0
Surface mount



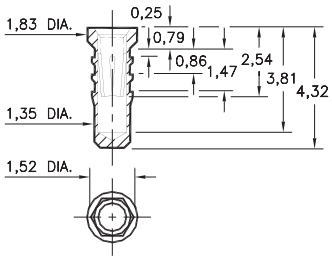
0666
0666-0-15-XX-32-XX-10-0
Solder mount in 1,63 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
See page 194.4 for Tape & Reel details



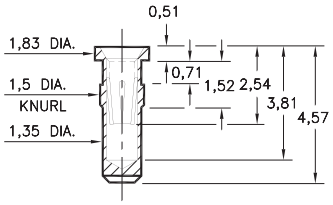
0341
0341-0-15-XX-30-XX-10-0
Solder mount in 1,85 mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
See page 194.3 for Tape & Reel details



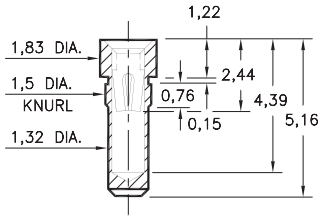
0252
0252-0-15-XX-32-XX-10-0
Hex press-fit in 1,45 plated through-hole



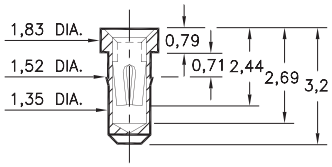
0678
0678-0-15-XX-32-XX-10-0
Press-fit in 1,45 mounting hole



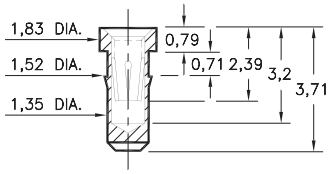
0676
0676-0-15-XX-30-XX-10-0
Press-fit in 1,45 mounting hole



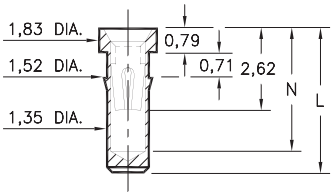
0697
0697-0-15-XX-30-XX-10-0
Press-fit in 1,45 mounting hole



0668
0668-0-15-XX-30-XX-10-0
Press-fit in 1,45 mounting hole



0253/1033
XXX3-0-15-XX-30-XX-10-0
Press-fit in 1,45 mounting hole



Basic Part Number	Length L	Depth N
0253-0	4,39	3,76
1033-0	5,16	4,11

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

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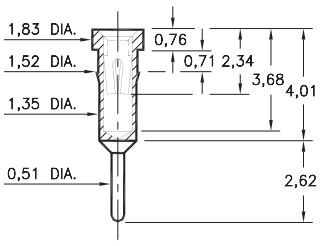
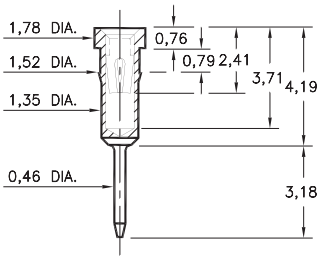
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

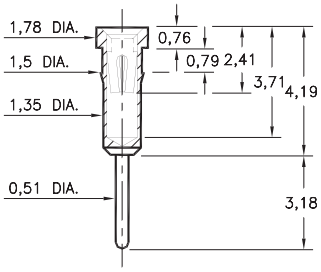
4011
4011-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



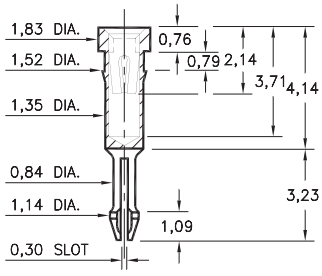
1801
1801-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole.
Shell is Phosphor Bronze Alloy 544 (B2)



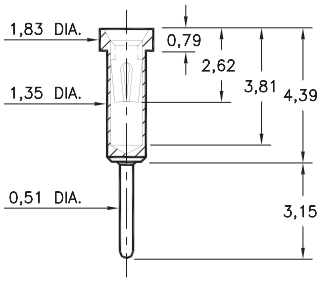
1001
1001-0-15-XX-3X-XX-04-0
Press-fit in 1,45 mounting hole



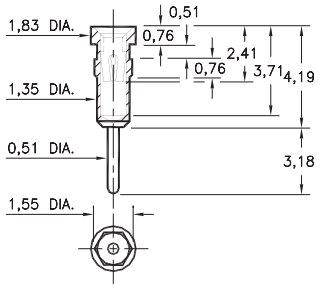
0156
0156-0-18-XX-30-XX-04-0
Self-retention socket pin 0,97 - 1,09 hole prior to soldering



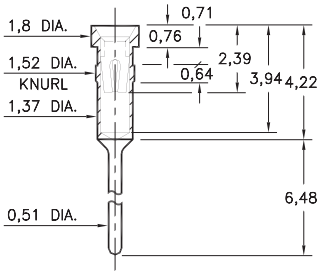
0255
0255-0-15-XX-30-XX-04-0
Solder mount in 0,56 min. mounting hole



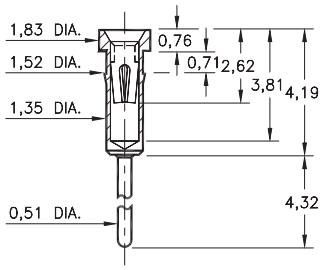
1109
1109-0-15-XX-30-XX-04-0
Hex press-fit in 1,45 plated through-hole



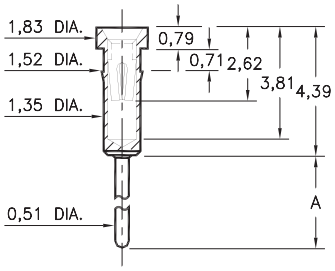
3013
3013-0-15-XX-32-XX-04-0
Press-fit in 1,45 mounting hole



0134
0134-0-15-XX-3X-XX-04-0
Press-fit in 1,45 mounting hole

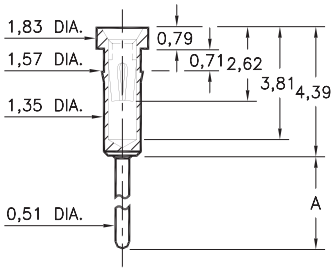


0132/0135
013X-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



Basic Part Number	Length A
0132-0	6,93
0135-0	4,65

0133/0147
01XX-0-15-XX-30-XX-04-0
Press-fit in 1,5 mounting hole



Basic Part Number	Length A
0133-0	9,7
0147-0	14,3

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

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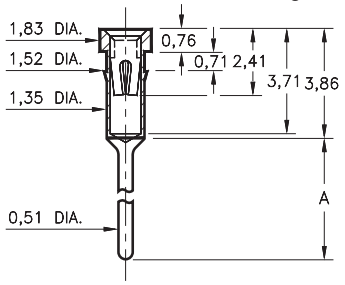
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1005/1013/8898

XXXX-0-15-XX-3X-XX-04-0

Press-fit in 1,45 mounting hole
Annealed brass shell for auto-clinching ∗



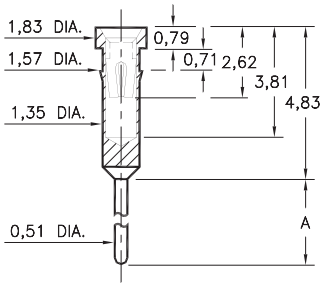
Basic Part Number	Length A
1005-0	3,51
1013-0	4,19
8898-0	5,69

∗ NOTE: 8898 is not annealed & not suitable for auto-clinching

0145/0146

014X-0-15-XX-30-XX-04-0

Press-fit in 1,5 mounting hole

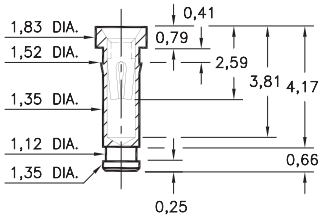


Basic Part Number	Length A
0145-0	7,62
0146-0	10,41

4378

4378-0-15-XX-30-XX-10-0

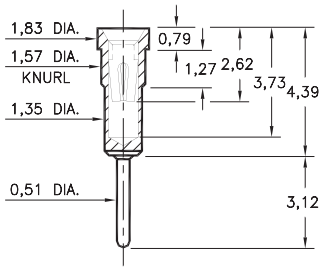
Press-fit in 1,45 mounting hole



0556

0556-0-15-XX-30-XX-04-0

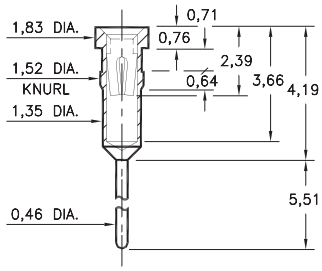
Press-fit in 1,5 mounting hole



1103

1103-0-15-XX-30-XX-04-0

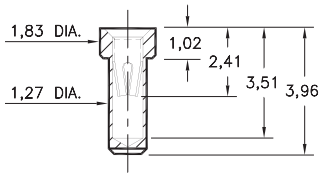
Press-fit in 1,45 mounting hole



9234

9234-0-15-XX-30-XX-10-0

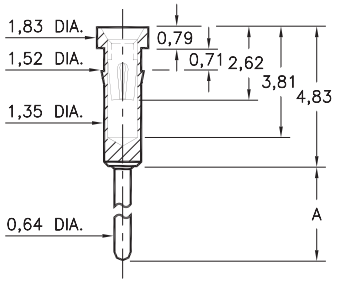
Solder mount in 1,32 min. mounting hole



0136/37/38/39/41/48/52

01XX-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

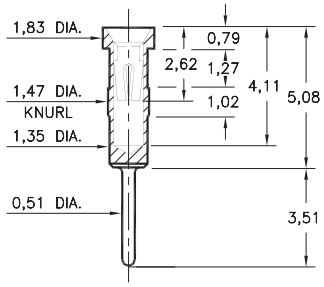


Basic Part Number	Length A
0136-0	30,86
0137-0	14,22
0138-0	5,33
0139-0	16,13
0141-0	17,78
0148-0	11,56
0152-0	10,41

0447

0447-0-15-XX-30-XX-04-0

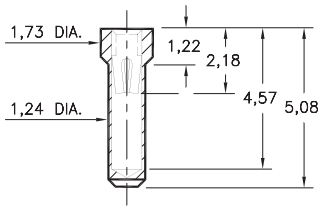
Press-fit in 1,42 mounting hole



5660

5660-0-15-XX-30-XX-10-0

Solder mount in 1,3 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- ◆ **84** 2,54µm TIN OVER NICKEL (RoHS)
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

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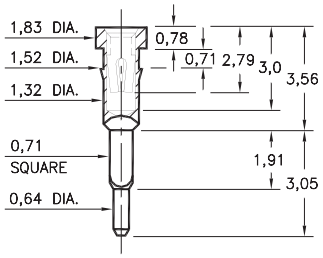
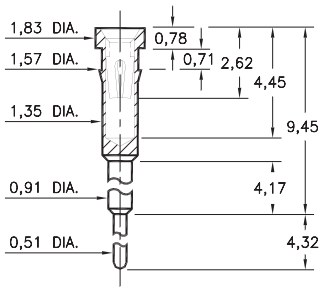
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

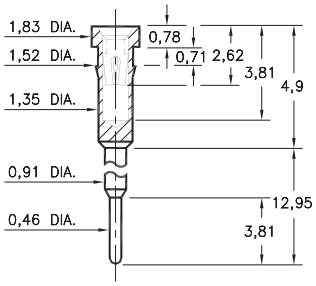
7132
7132-0-15-XX-30-XX-04-0
Square press-fit for 0,81 ± 0,05 plated through-hole



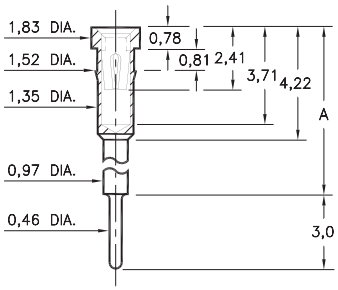
1038
1038-0-15-XX-30-XX-04-0
Press-fit in 1,5 mounting hole



1261
1261-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole

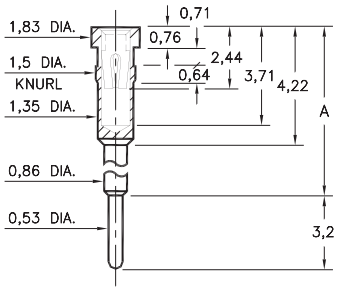


0153
0153-X-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



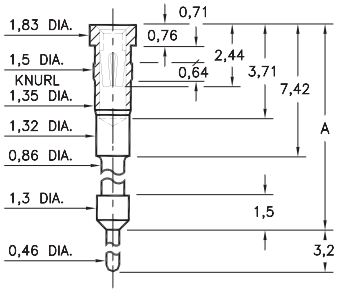
Basic Part Number	Height A
0153-1	5,99
0153-2	8,0
0153-3	10,21
0153-4	11,99
0153-5	15,09
0153-6	17,75

1602/1610
16XX-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



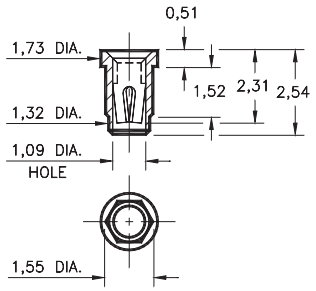
Basic Part Number	Height A
1602-0	11,2
1610-0	16,31

0903/0904
090X-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole

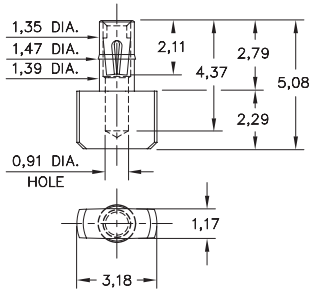


Basic Part Number	Height A
0903-0	21,36
0904-0	28,98

8252
8252-0-15-XX-30-XX-10-0
Press-fit in 1,45 plated through-hole



4078
4078-0-15-XX-30-XX-40-0
Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 15 - XX - 30 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 CONTACT (DATA ON PAGE 253
(For alternate contact choices, see groups B and C on page 248)

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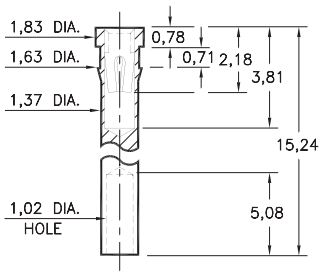
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

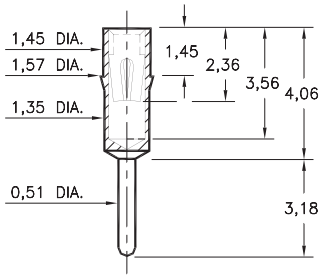
1707
1707-0-19-XX-30-XX-10-0

Press-fit in 1,55 mounting hole
Wire Crimp Termination. Accepts wire sizes 22 AWG Max. / 24 AWG Min.



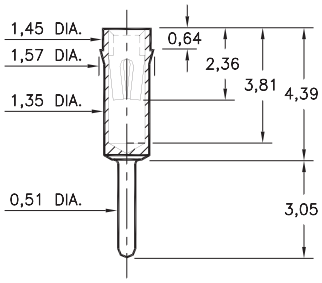
0240
0240-0-15-XX-30-XX-04-0

Press-fit in 1,49 mounting hole



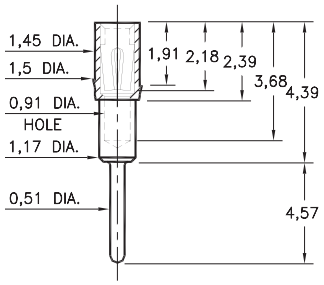
0307
0307-0-15-XX-30-XX-04-0

Press-fit in 1,5 mounting hole



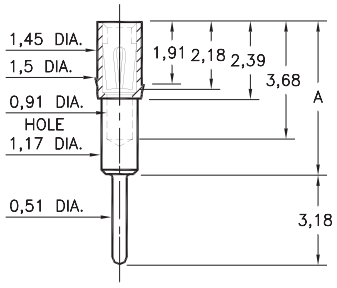
1753
1753-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole



1705/1706/1762
17XX-0-15-XX-3X-XX-04-0

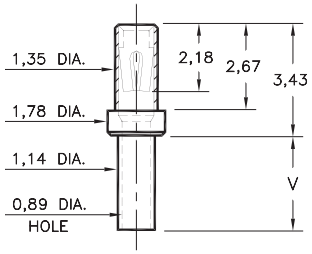
Press-fit in 1,45 mounting hole



Basic Part Number	Height A
1705-0	4,19
1706-0	5,54
1762-0	7,62

0672
0672-X-15-XX-30-XX-10-0

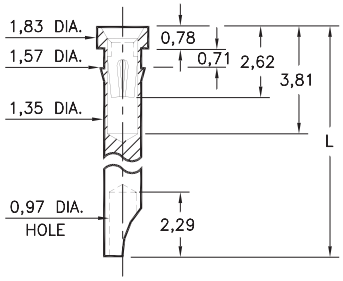
Swage mount in 1,24 hole



Basic Part Number	Board Thickness	Length V
0672-1	0,79	1,32
0672-2	1,57	2,13
0672-3	2,39	2,92
0672-4	3,18	3,71

1024/1104
1XX4-0-18-XX-30-XX-10-0

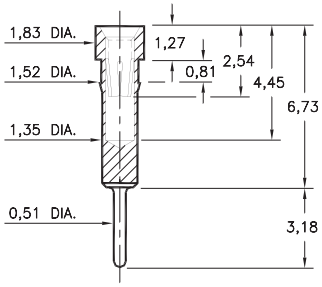
Press-fit in 1,5 mounting hole
Accepts wire sizes up to 0,71 dia.



Basic Part Number	Length L
1024-0	7,37
1104-0	11,43

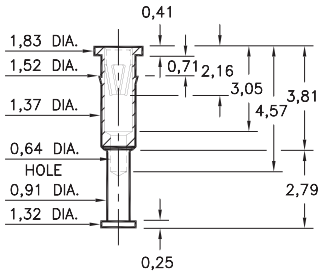
0498
0498-0-15-XX-35-XX-04-0

Press-fit in 1,45 mounting hole



8131
8131-0-15-XX-30-XX-10-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

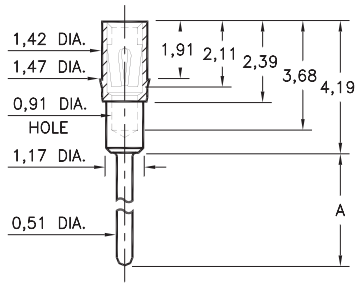
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1802/3802/4030/8866

XXXX-0-15-XX-43-XX-04-0

Press-fit in 1,45 mounting hole

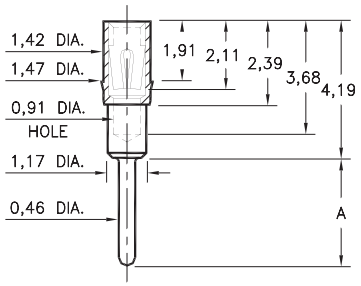


Basic Part Number	Length A
1802-0	3,18
3802-0	4,19
8866-0	19,69
4030-0	20,70

1803/1805/1808/3805

XXXX-0-15-XX-XX-XX-04-0

Press-fit in 1,45 mounting hole

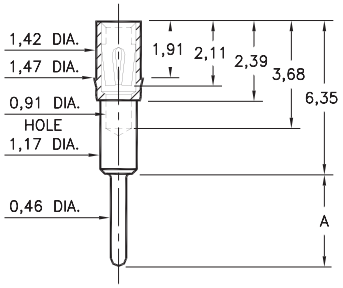


Basic Part Number	Length A
1808-0	2,54
1803-0	3,68
1805-0	5,41
3805-0	9,98

1804/1806

180X-0-15-XX-43-XX-04-0

Press-fit in 1,45 mounting hole

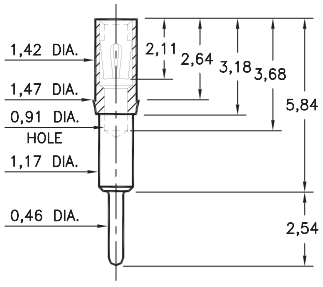


Basic Part Number	Length A
1804-0	2,03
1806-0	2,92

1807

1807-0-15-XX-43-XX-04-0

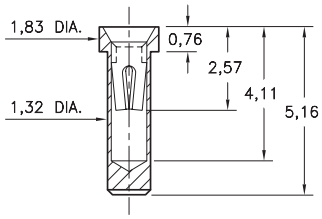
Press-fit in 1,45 mounting hole



4728

4728-15-XX-30-XX-10-0

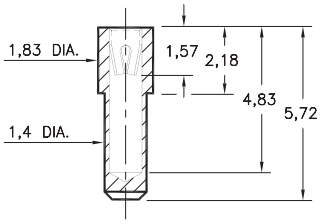
Solder mount in 1,37 min. mounting hole



8830

8830-15-XX-22-XX-10-0

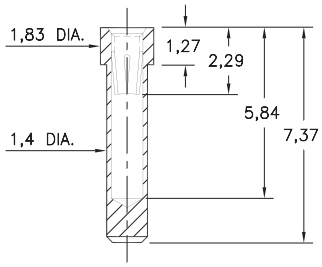
Solder mount in 1,45 min. mounting hole



8363

8363-0-15-XX-35-XX-10-0

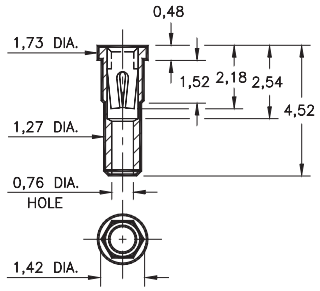
Solder mount in 1,45 min. mounting hole



4622

4622-0-15-XX-30-XX-10-0

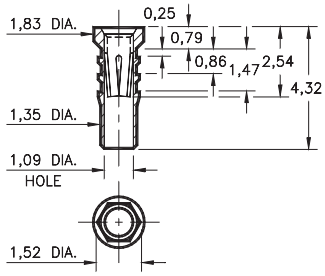
Hex press-fit in 1,35 plated through-hole



6252

6252-0-15-XX-32-XX-10-0

Hex press-fit in 1,45 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

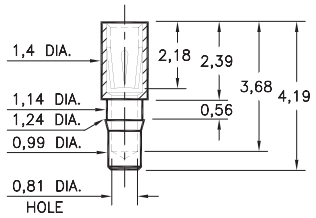
SELECT CONTACT:

#22, #30, #32 or #43 CONTACT (DATA ON PAGES 252, 253 & 254)
(For alternate contact choices, see groups B and C on page 248)

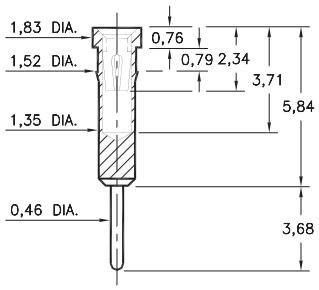
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

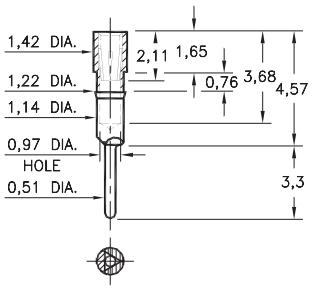
0385
0385-0-15-XX-43-XX-10-0
Press-fit in 1,17 mounting hole



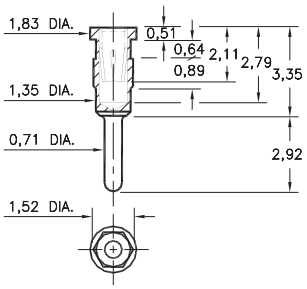
4001
4001-0-15-XX-43-XX-04-0
Press-fit in 1,45 mounting hole



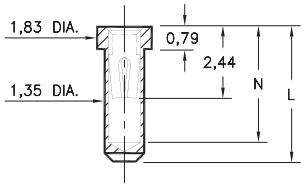
1782
1782-0-15-XX-43-XX-04-0
Press-fit in 1,14 mounting hole



5960
5960-0-15-XX-43-XX-04-0
Hex press-fit in 1,45 plated through-hole

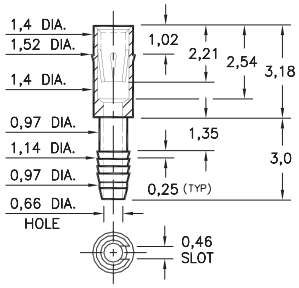


1401/3185
XXXX-0-15-XX-30-XX-10-0
Solder mount in 1,4 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
See page 194.3 for Tape & Reel details

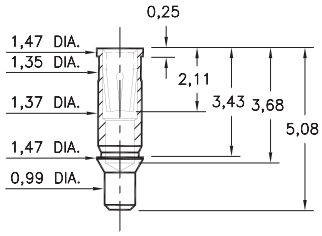


Basic Part Number	Length L	Depth N
1401-0	4,19	3,68
3185-0	3,30	2,77

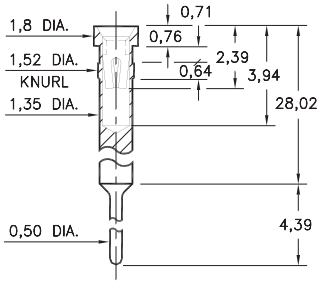
4310
4310-0-31-XX-43-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



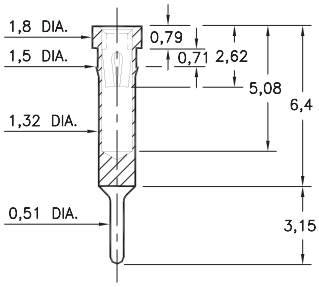
1385
1385-0-15-XX-43-XX-10-0
Surface mount



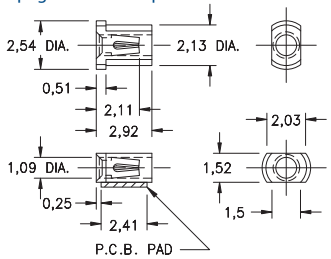
3018
3018-0-15-XX-30-XX-04-0
Press-fit in 1,45 mounting hole



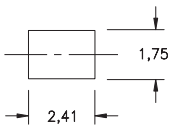
8852
8852-0-15-XX-30-XX-04-0
Press-fit in 1,42 mounting hole



3907
3907-0-18-XX-30-XX-10-0
Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 330mm reel
See page 194.4 for Tape & Reel details



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30, #35 or #43 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)

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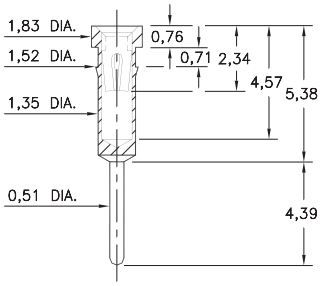
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

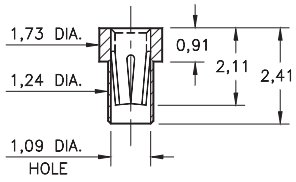
8964
8964-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole



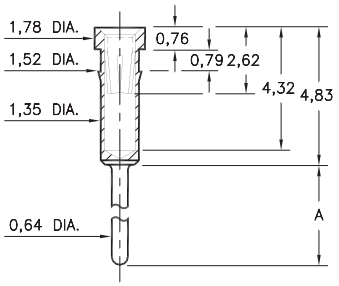
5342
5342-0-15-XX-35-XX-10-0

Solder mount in 1,3 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel
See page 194.4 for Tape & Reel details



8857
8857-X-15-XX-32-XX-04-0

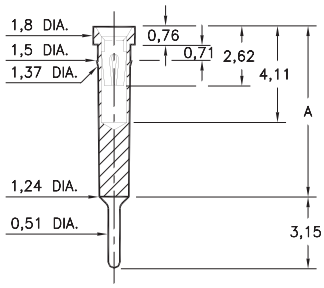
Press-fit in 1,45 mounting hole



Basic Part Number	Length A
8857-0	7,9
8857-1	11,38
8857-2	14,96
8857-3	18,57
8857-4	22,12

8862/8877
88XX-0-15-XX-30-XX-04-0

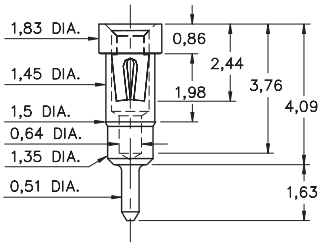
Press-fit in 1,42 mounting hole



Basic Part Number	Length A
8862-0	7,62
8877-0	8,89

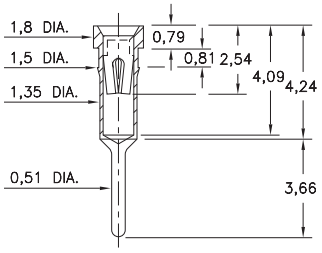
1334
1334-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole



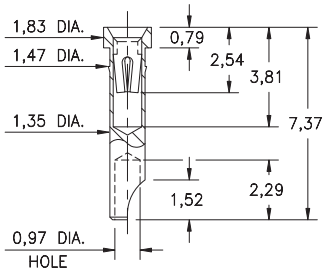
8855
8855-0-15-XX-30-XX-34-0

Press-fit in 1,45 mounting hole



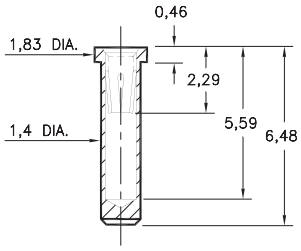
2954
2954-0-18-XX-30-XX-10-0

Press-fit in 1,45 mounting hole
Accepts wire sizes up to 0,71 dia.



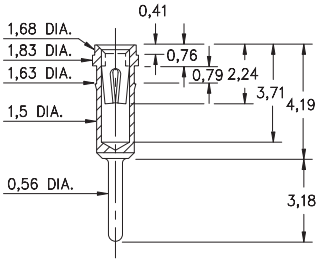
9363
9363-0-15-XX-35-XX-10-0

Solder mount in 1,45 min. mounting hole



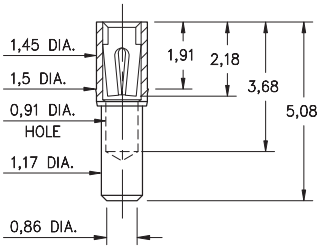
1023
1023-0-15-XX-30-XX-04-0

Press-fit in 1,55 mounting hole



1701
1701-0-15-XX-30-XX-10-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

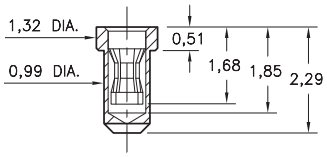
SELECT CONTACT:
#30, #32 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)

PIN RECEPTACLES

FOR 0,46 - 0,58 DIAMETER PINS

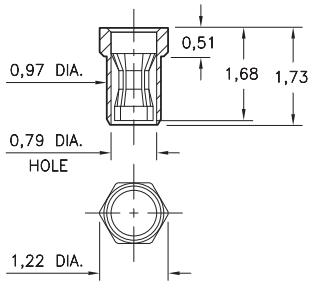
0507
0507-0-15-XX-31-XX-10-0

Solder mount in 1,07 min. mounting hole
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel
See page 194.5 for Tape & Reel details



0531
0531-0-15-XX-31-XX-10-0

Hex press-fit in 1,14 plated through-hole
(Top or Bottom entry capable)



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: 05XX - 0 - 15 - XX - 31 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

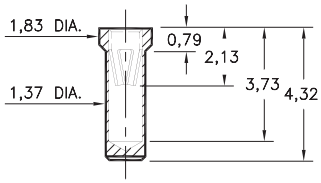
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#31 CONTACT
(For alternate contact choices, see group A on page 248)

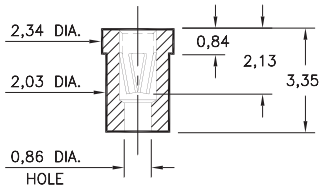
PIN RECEPTACLES

FOR 0,51 - 0,81 DIAMETER PINS

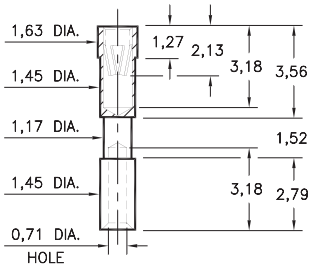
0338
0338-0-15-XX-15-XX-10-0
Solder mount in 1,45 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
See page 194.6 for Tape & Reel details



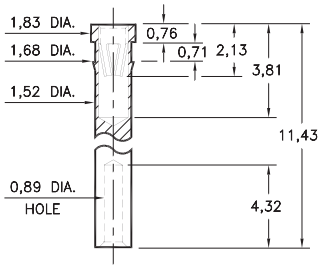
0378
0378-0-15-XX-15-XX-10-0
Solder mount in 2,08 min. mounting hole



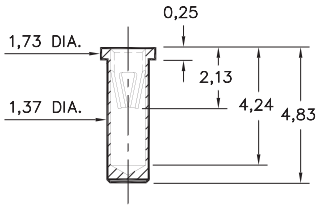
6002
6002-0-19-XX-15-XX-10-0
Solder mount in 1,5 min. mounting hole
Wire Termination. Accepts wire sizes
26 AWG Max. / 30 AWG Min.



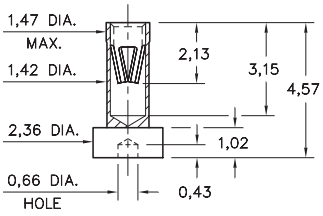
7009
7009-0-19-XX-15-XX-10-0
Press-fit in 1,6 min. mounting hole
Wire Termination. Accepts wire sizes
22 AWG Max. / 26 AWG Min.



0339
0339-0-15-XX-15-XX-10-0
Solder mount in 1,45 min. mounting hole
Also available on 24mm wide carrier tape:
1,540 parts per 330mm reel
See page 194.6 for Tape & Reel details



5200
5200-0-19-XX-15-27-10-0
Surface mount on a 2,62 dia. P.C.B. pad



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 15 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#15 CONTACT (DATA ON PAGE 254)
(For alternate contact choices, see group K on page 248)

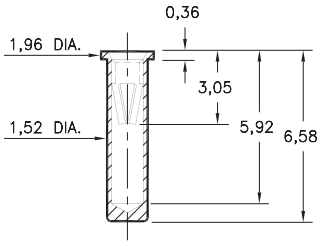
MILL-MAX® *Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com*

PIN RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS

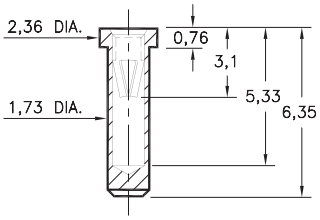
0295
0295-0-15-XX-06-XX-10-0

Solder mount in 1,60 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 330mm reel
See page 194.7 for Tape & Reel details



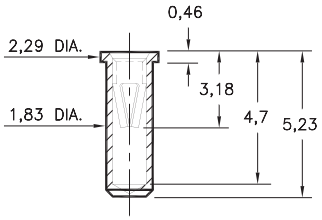
0292
0292-0-15-XX-06-XX-10-0

Solder mount in 1,8 min. mounting hole



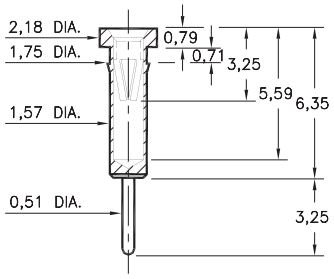
0294
0294-0-15-XX-06-XX-10-0

Solder mount in 1,93 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
See page 194.7 for Tape & Reel details



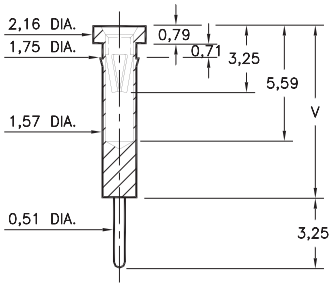
0398
0398-0-15-XX-06-XX-04-0

Press-fit in 1,68 mounting hole



0397
0397-X-15-XX-06-XX-04-0

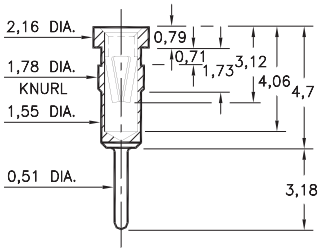
Press-fit in 1,68 mounting hole



Basic Part Number	Length V
0397-0	8,97
0397-1	8,46
0397-2	10,49

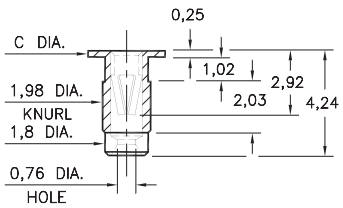
0297
0297-0-15-XX-06-XX-04-0

Press-fit in 1,7 mounting hole



9019/9039
90X9-0-19-XX-06-XX-10-0

Press-fit in 1,91 mounting hole



Basic Part Number	Head Dia. C
9019-0	3,18
9039-0	2,54

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 06 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#06 CONTACT (DATA ON PAGE 255)
(For alternate contact choices, see group D on page 248)

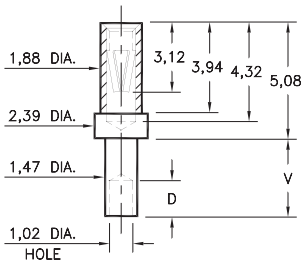
PIN RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS

0326

0326-X-19-XX-06-XX-10-0

Swage mount in 1,52 hole

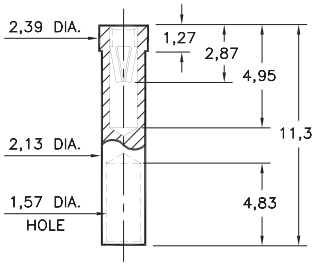


Basic Part Number	Board Thick-ness	Length V	Depth D
0326-1	0,79	1,57	1,02
0326-2	1,57	2,39	1,57
0326-3	2,39	3,18	1,57
0326-4	3,18	3,96	1,57

5295

5295-0-19-XX-06-XX-10-0

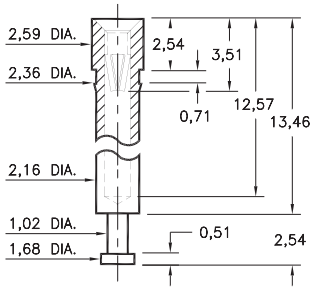
Solder mount in 2,18 min. mounting hole
Wire Crimp Termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



0396

0396-0-15-XX-06-XX-10-0

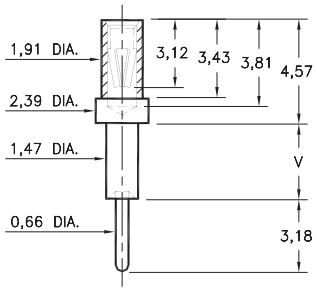
Press-fit in 2,29 mounting hole



0298

0298-X-15-XX-06-XX-10-0

Swage mount in 1,52 hole

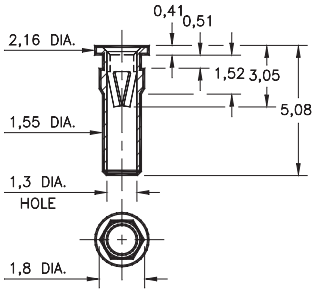


Basic Part Number	Board Thickness	Length V
0298-1	0,79	1,3
0298-2	1,57	2,08
0298-3	2,39	2,87
0298-4	3,18	3,68

9293

9293-0-15-XX-06-XX-10-0

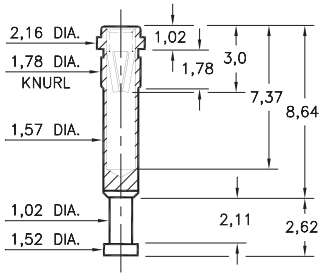
Hex press-fit in 1,7 plated through-hole



8864

8864-0-15-XX-06-XX-10-0

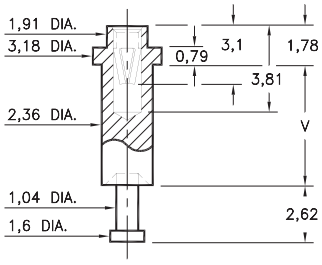
Press-fit in 1,7 mounting hole



0664

0664-X-15-XX-06-XX-10-0

Swage mount in 2,44 hole



Basic Part Number	Board Thickness	Length V
0664-1	2,39	3,18
0664-2	3,18	3,96
0664-3	4,78	5,56

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - 06 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,04µm TIN/LEAD OVER NICKEL
- **80** 5,04µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

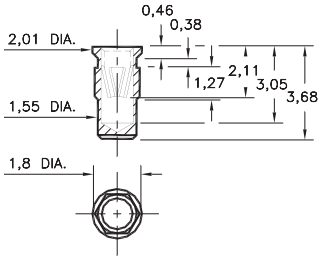
SELECT CONTACT:
#06 CONTACT (DATA ON PAGE 255)
(For alternate contact choices, see group D on page 248)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

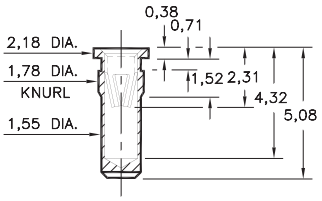
PIN RECEPTACLES

FOR 0,56 - 0,86 DIAMETER PINS AND 0,64 SQUARE PINS

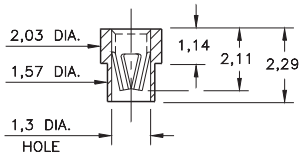
0291
0291-0-15-XX-16-XX-10-0
Hex press-fit in 1,7 plated through-hole



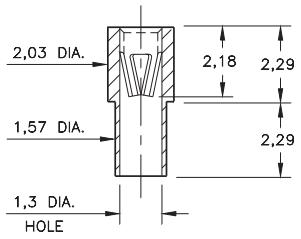
0293
0293-0-15-XX-16-XX-10-0
Press-fit in 1,7 mounting hole



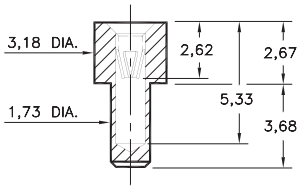
0287
0287-0-15-XX-16-XX-10-0
Solder mount in 1,65 min. mounting hole
Also available on 8mm wide carrier tape:
3,250 parts per 330mm reel
See page 194.8 for Tape & Reel details



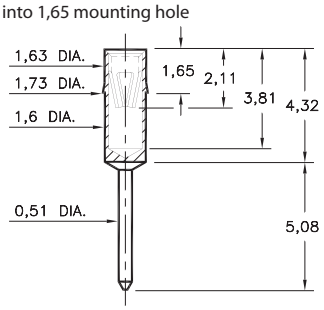
0285
0285-0-15-XX-16-XX-10-0
Solder mount in 1,65 min. mounting hole



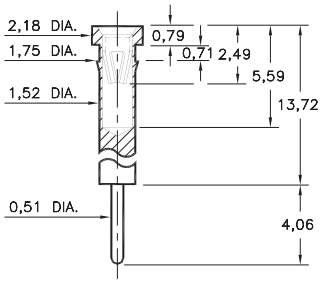
0284
0284-0-15-XX-16-XX-10-0
Solder mount in 1,78 min. mounting hole



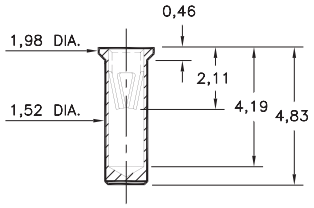
8114
8114-0-15-XX-16-XX-04-0
Press-fit from underside of pc board
into 1,65 mounting hole



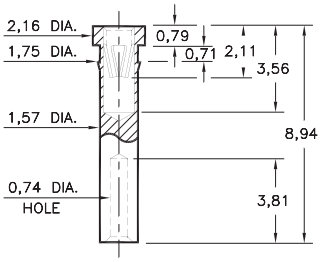
0407
0407-0-15-XX-16-XX-04-0
Press-fit in 1,68 mounting hole



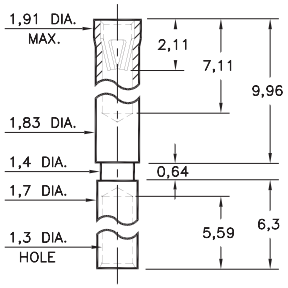
0415
0415-0-15-XX-16-XX-10-0
Solder mount in 1,6 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
See page 194.8 for Tape & Reel details



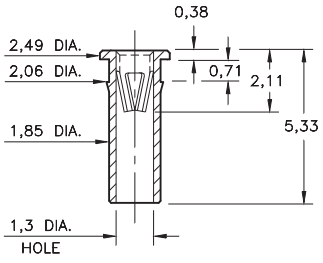
0303
0303-0-19-XX-16-XX-10-0
Press-fit in 1,7 mounting hole
Wire Crimp Termination. Accepts wire
sizes 26 AWG Max. / 30 AWG Min.



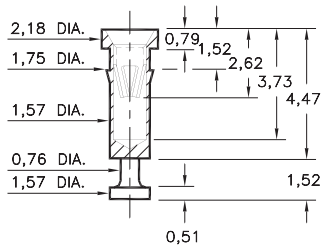
0306
0306-0-19-XX-16-XX-10-0
Wire Crimp Termination. Accepts wire
sizes 20 AWG Max. / 24 AWG Min.



0273
0273-0-15-XX-16-XX-10-0
Press-fit in 1,98 mounting hole



7520
7520-0-15-XX-16-XX-10-0
Press-fit in 1,68 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 16 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,04µm TIN/LEAD OVER NICKEL
- **80** 5,04µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

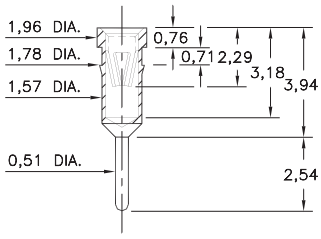
SPECIFY CONTACT FINISH:
- **01** 5,04µm TIN/LEAD OVER NICKEL
- **80** 5,04µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#16 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

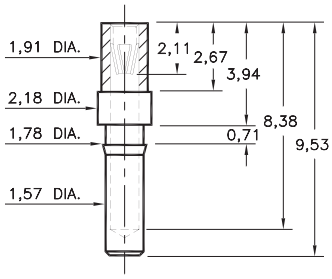
PIN RECEPTACLES

FOR 0,56 - 0,86 DIAMETER PINS AND 0,64 SQUARE PINS

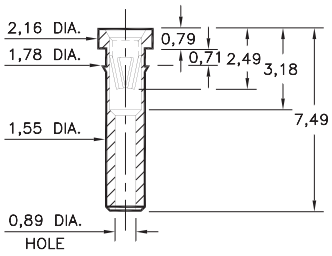
9808
9808-0-15-XX-16-XX-04-0
Press-fit in 1,70 mounting hole



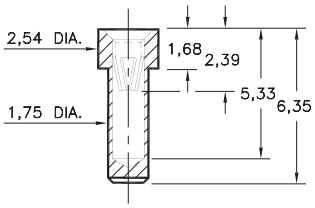
9101
9101-0-15-XX-16-XX-10-0
Press-fit in 1,70 mounting hole



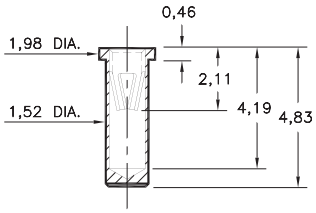
5650
5650-0-19-XX-16-XX-10-0
Press-fit in 1,70 mounting hole



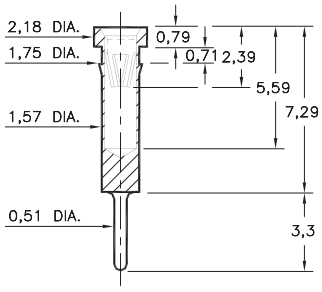
8679
8679-0-15-XX-16-XX-10-0
Solder mount in 1,80 min. mounting hole



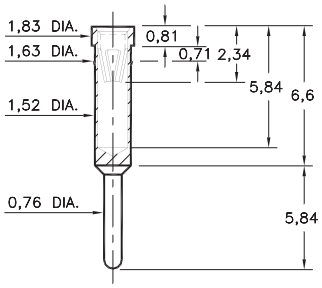
6021
6021-0-15-XX-16-XX-10-0
Solder mount in 1,57 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
See page 194.8 for Tape & Reel details



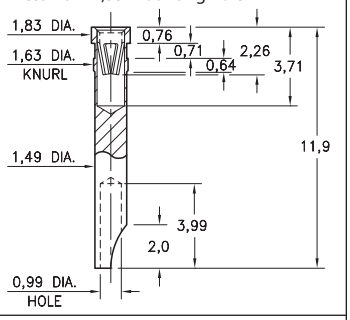
1873
1873-0-15-XX-16-XX-04-0
Press-fit in 1,68 mounting hole



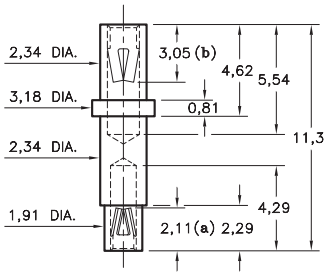
8827
8827-0-15-XX-16-XX-04-0
Press-fit in 1,55 mounting hole



5070
5070-0-18-XX-16-XX-10-0
Press-fit in 1,55 mounting hole



7620
7620-0-34-XX-16-XX-10-0
Double Ended Receptacle. See chart
for Contact number & acceptance ranges



Contact Number	Acceptance Range
(a) #16	0,56 - 0,86 and 0,64 □
(b) #34	0,81 - 1,17

(Data on Page 258)

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 16 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#16 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

MILL-MAX® *Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com*

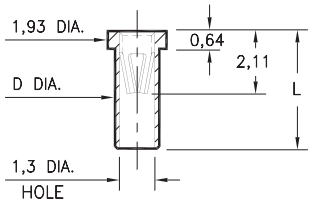
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

0305

0305-X-15-XX-47-XX-10-0

Solder mount in 1,5/1,55 mounting hole
Also available on 8mm or 24mm wide carrier tape: See chart for details
See page 194.9 for Tape & Reel details



Basic Part Number	Length L	Dia. D
0305-0	2,41	1,42
0305-1	2,67	1,47
0305-2	3,94	1,47

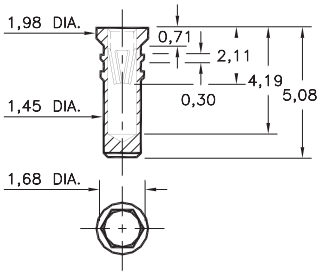
T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
0305-0	8mm	6,000
0305-1	8mm	6,000
0305-2	24mm	1,500

0279

0279-0-15-XX-47-XX-10-0

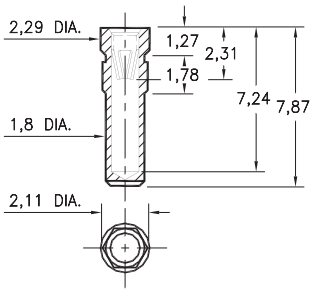
Hex press-fit in 1,57 plated through-hole



0330

0330-0-15-XX-47-XX-10-0

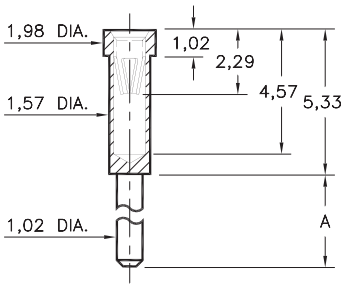
Hex press-fit in 2,01 plated through-hole



0300/8300

X300-X-15-XX-47-XX-10-0

Solder mount in 1,07 min. mounting hole

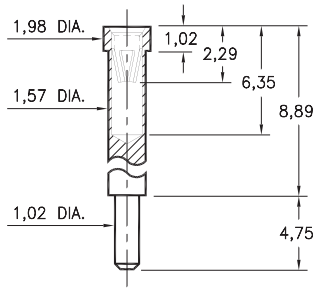


Basic Part Number	Length A
0300-1	2,79
0300-2	4,75
8300-0	3,56

0301

0301-1-15-XX-47-XX-10-0

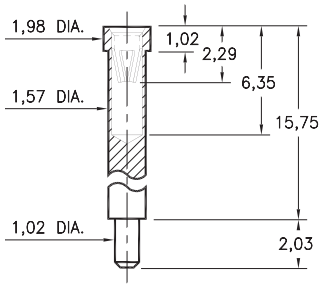
Solder mount in 1,07 min. mounting hole



0309

0309-2-15-XX-47-XX-10-0

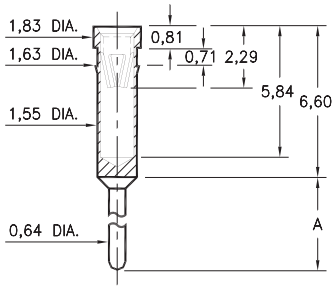
Solder mount in 1,07 min. mounting hole



0399

0399-X-15-XX-47-XX-04-0

Press-fit in 1,55 mounting hole

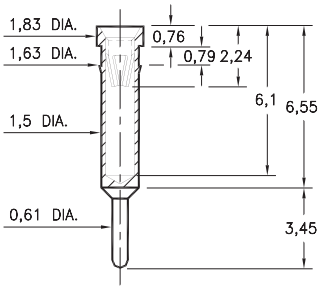


Basic Part Number	Length A
0399-0	5,84
0399-1	4,57

1304

1304-0-15-XX-47-XX-04-0

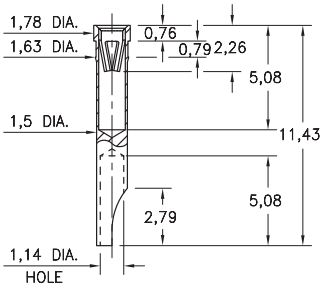
Press-fit in 1,55 mounting hole



1134

1134-0-18-15-47-27-10-0

Press-fit in 1,55 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#47 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

COMPLIANT TAIL PINS & RECEPTACLES

DESIGNED FOR A SECURE PRESS-FIT IN STANDARD PLATED THROUGH-HOLES

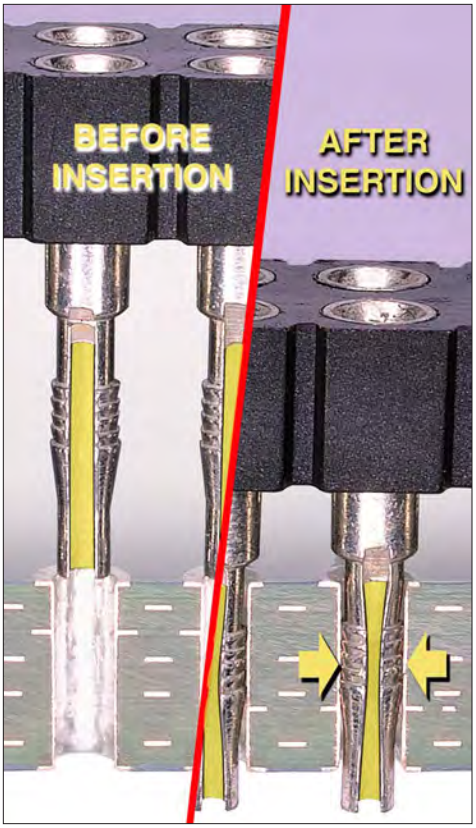
The unique compliant pin design is characterized by a hollow and slotted tail that closes down and conforms to the size of the plated through-hole, thus preventing damage. In addition, the combination of slotted tail and a series of fine serrations make a reliable gas-tight connection with the plating inside the hole.

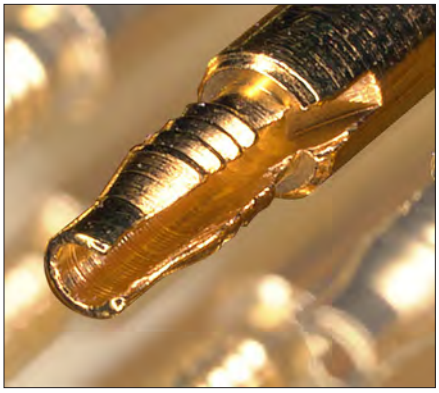
Mill-Max offers sockets, headers and discrete pins and receptacles with compliant tail or barrel features to address a broad range of applications where press-fitting is the desired solution over soldering. Mill-Max compliant tail sockets are available in dual-in-line packages (Series 146) and single and double row strips (Series 346 and 446, respectively).

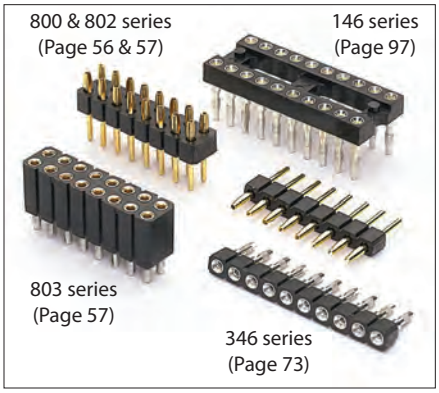
For higher current and more rugged applications, Mill-Max has single row (Series 800) and double row (Series 802) interconnects and mating sockets, single row (Series 801) and double row (Series 803). Multi-layer boards can be stacked by mating these pin headers with sockets containing highly reliable six-finger inner contacts that accept 0,76 diameter round pins as well as 0,64 square pins.

Both compliant tail sockets and interconnects are available in two tail lengths, one for 1,52 - 2,54 thick panels and another for 2,29 - 3,30 thick panels.

Discrete pins (P/N's 5601, 5602 & 2617) and receptacles (P/N's 4993 & 4994) are useful for single location requirements or for non-standard layouts. The receptacles are low profile. The 4993 accepts leads from 0,3 - 0,43 and 4994 accepts leads from 0,38 - 0,51.







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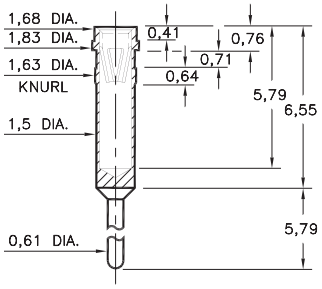
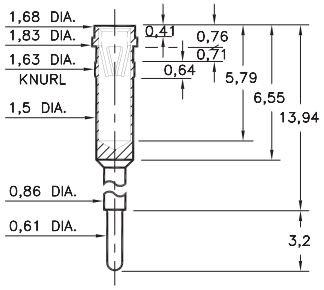
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

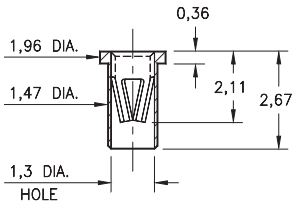
1305
1305-0-15-XX-47-XX-04-0
Press-fit in 1,55 mounting hole



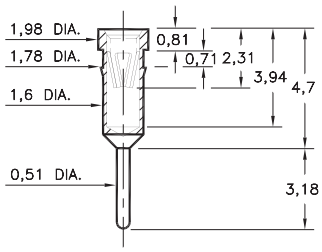
1306
1306-0-15-XX-47-XX-04-0
Press-fit in 1,55 mounting hole



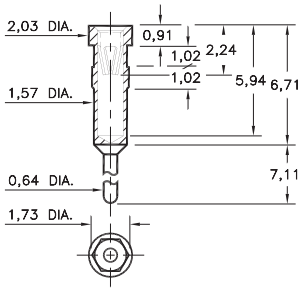
7305
7305-0-15-XX-47-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel
See page 194.9 for Tape & Reel details



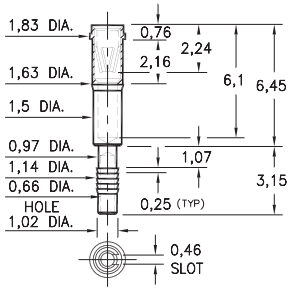
0400
0400-0-15-XX-47-XX-04-0
Press-fit in 1,7 mounting hole



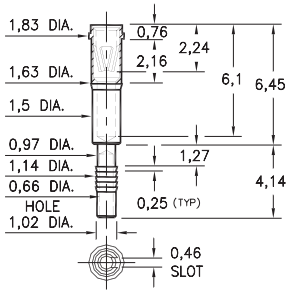
0335
0335-0-15-XX-47-XX-04-0
Hex press-fit in 1,63 plated through-hole



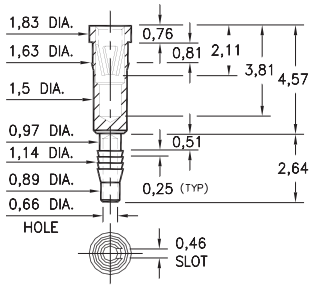
4614
4614-0-31-XX-47-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



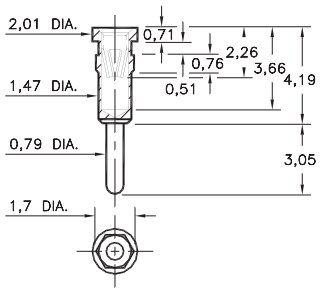
4615
4615-0-31-XX-47-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated hole. For 2,29 → 3,30 thick board



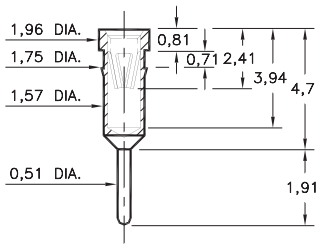
7614
7614-0-31-XX-47-XX-04-0
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



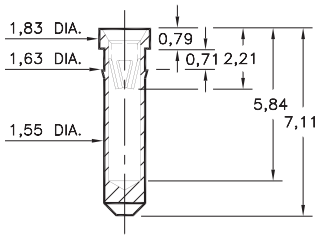
8401
8401-0-15-XX-47-XX-04-0
Hex press-fit in 1,6 plated through-hole



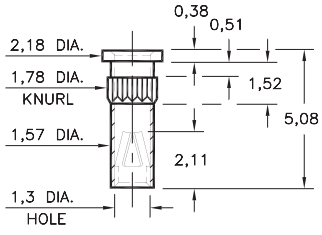
2400
2400-0-15-XX-47-XX-04-0
Press-fit in 1,68 mounting hole



6857
6857-0-15-XX-47-XX-10-0
Press-fit in 1,55 mounting hole



9393
9393-0-15-XX-47-XX-10-0
Press-fit in 1,70 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#47 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

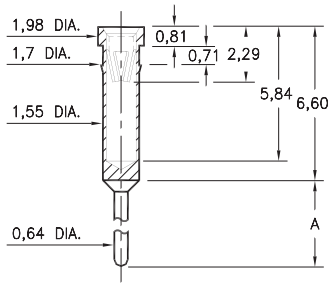
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

0401/6401

X401-0-15-XX-47-XX-04-0

Press-fit in 1,63 mounting hole

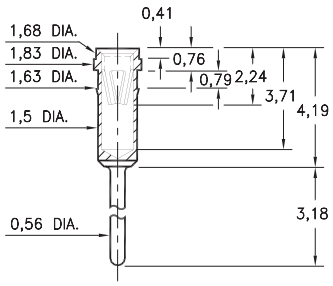


Basic Part Number	Length A
0401-0	8,64
6401-0	13,72

1303

1303-0-15-XX-47-XX-04-0

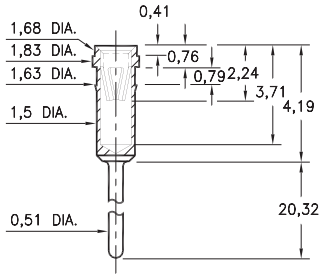
Press-fit in 1,55 mounting hole



8303

8303-0-15-XX-47-XX-04-0

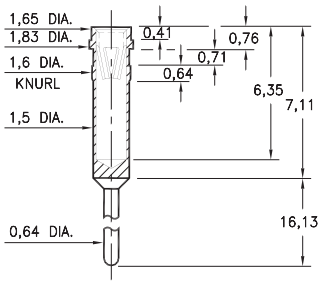
Press-fit in 1,55 mounting hole



4095

4095-0-15-XX-47-XX-04-0

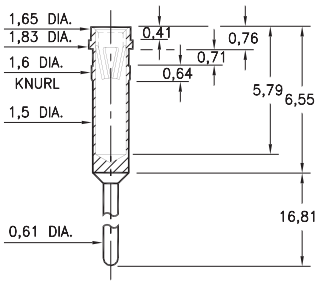
Press-fit in 1,55 mounting hole



4014

4014-0-15-XX-47-XX-04-0

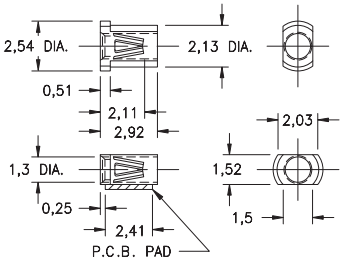
Press-fit in 1,55 mounting hole



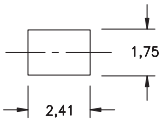
8806

8806-0-18-XX-47-XX-40-0

Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 330mm reel
See page 194.9 for Tape & Reel details



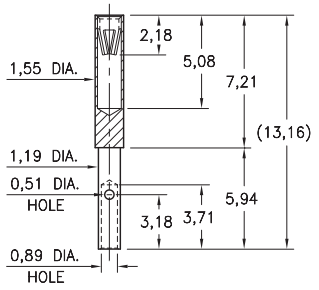
P.C.B. Layout



0722

0722-0-33-XX-47-XX-10-0

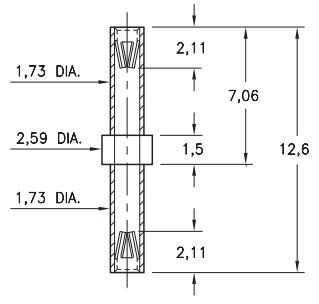
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 28 AWG Min.



6839

6839-0-40-XX-47-XX-10-0

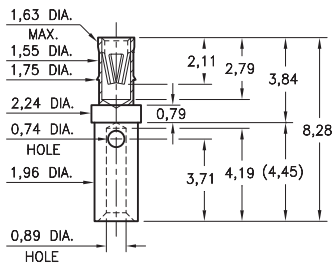
Double Ended Receptacle



6368

6368-0-33-XX-47-XX-10-0

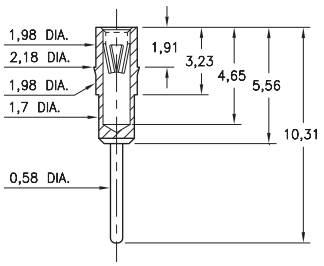
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



4119

4119-0-15-XX-47-XX-04-0

Press-fit in 2,11 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#47 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

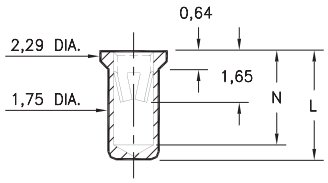
PIN RECEPTACLES

FOR 0,94 - 1,09 DIAMETER PINS

0331/9353

X3XX-0-15-XX-18-XX-10-0

Solder mount in 1,80 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 330mm reel
See page 194.10 for Tape & Reel details

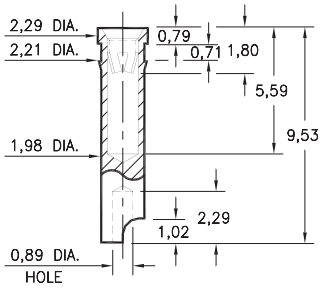


Basic Part Number	Length L	Depth N
0331-0	3,81	3,23
9353-0	4,32	3,73

7405

7405-0-18-XX-18-XX-10-0

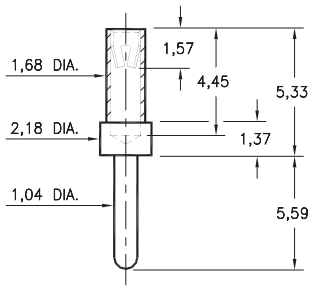
Press-fit in 2,13 mounting hole
Accepts wire sizes up to 0,64 dia.



3450

3450-0-15-XX-18-XX-04-0

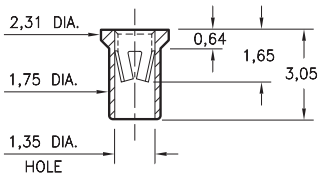
Solder mount in 1,09 min. mounting hole



7406

7406-0-15-XX-18-XX-10-0

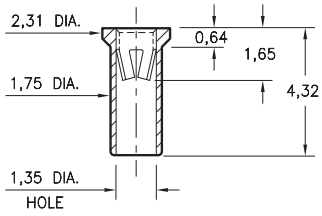
Solder mount in 1,80 min. mounting hole
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel
See page 194.10 for Tape & Reel details



9354

9354-0-15-XX-18-XX-10-0

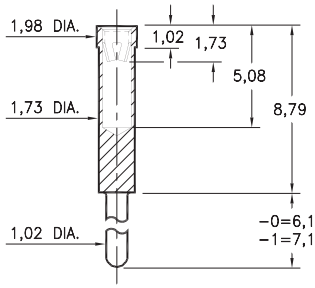
Solder mount in 1,80 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
See page 194.10 for Tape & Reel details



0319

0319-X-15-XX-18-XX-04-0

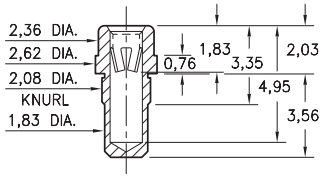
Solder mount in 1,07 min. mounting hole



9357

9357-0-15-XX-18-XX-10-0

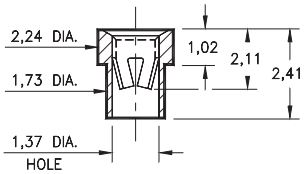
Press-fit in 1,98 mounting hole



3520

3520-0-15-XX-18-XX-10-0

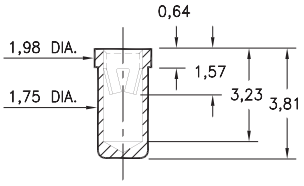
Solder mount in 1,78 min. mounting hole



8331

8331-0-15-XX-18-XX-10-0

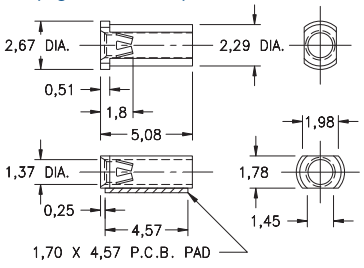
Solder mount in 1,80 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 330mm reel
See page 194.10 for Tape & Reel details



6628

6628-0-18-XX-18-XX-10-0

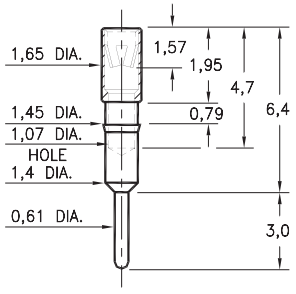
Surface mount
Also available on 12mm wide carrier tape:
3,700 parts per 330mm reel
See page 194.10 for Tape & Reel details



1313

1313-0-15-XX-18-XX-04-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#18 CONTACT (DATA ON PAGE 257)
(For alternate contact choices, see group L on page 248)

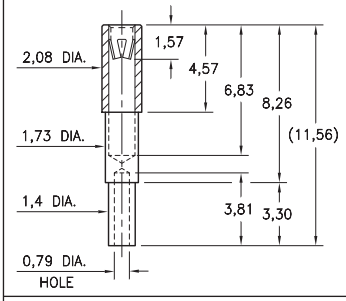
PIN RECEPTACLES

FOR .037" - .043" DIAMETER PINS

4314

4314-0-19-XX-18-XX-10-0

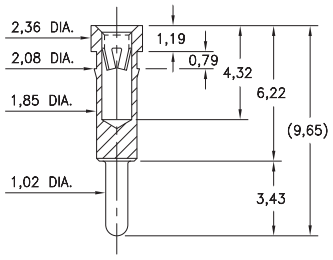
Wire crimp termination.
Accepts wire sizes up to 24 AWG



4401

4401-0-15-XX-18-XX-04-0

Press-fit in 2,01 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 15 - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#18 CONTACT (DATA ON PAGE 257)
(For alternate contact choices, see group L on page 248)

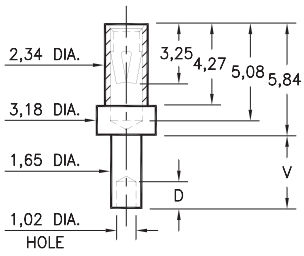
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

0344

0344-X-19-XX-34-XX-10-0

Swage mount in 1,70 hole

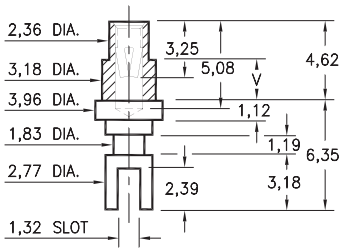


Basic Part Number	Board Thick-ness	Length V	Depth D
0344-1	0,78	1,57	1,02
0344-2	1,57	2,39	1,57
0344-3	2,39	3,18	1,57
0344-4	3,18	3,96	1,57

0349

0349-X-31-XX-34-XX-10-0

Swage mount in 3,28 hole

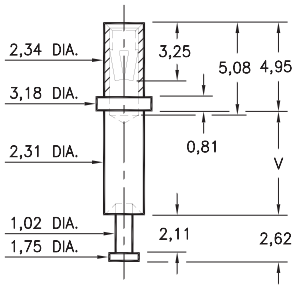


Basic Part Number	Board Thickness	Length V
0349-2	1,57	2,39
0349-3	2,39	3,18
0349-4	3,18	3,96

0323

0323-X-15-XX-34-XX-10-0

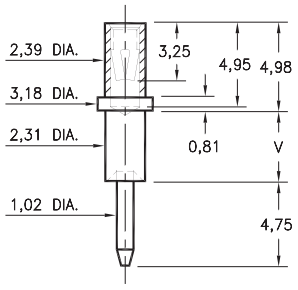
Swage mount in 2,39 hole



0324

0324-X-15-XX-34-XX-10-0

Swage mount in 2,39 hole

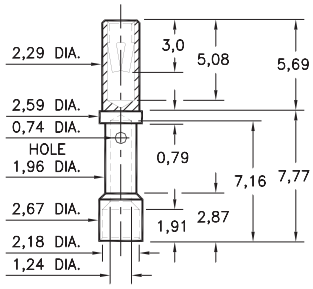


Basic Part Number	Board Thickness	Length V
032X-1	0,79	1,57
032X-2	1,57	2,39
032X-3	2,39	3,18
032X-4	3,18	3,96
032X-5	4,78	5,56

0348

0348-0-33-XX-34-XX-10-0

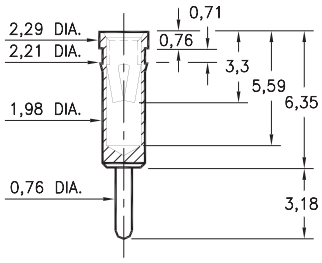
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



0405

0405-0-15-XX-34-XX-04-0

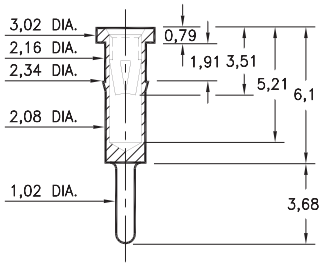
Press-fit in 2,13 mounting hole



0336

0336-0-15-XX-34-XX-04-0

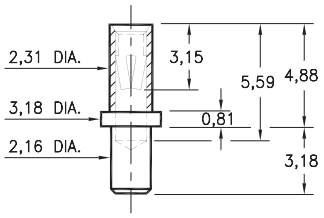
Press-fit in 2,26 mounting hole



0322

0322-0-15-XX-34-XX-10-0

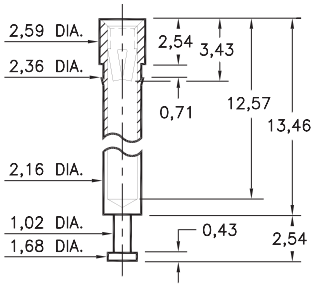
Solder mount in 2,26 min. mounting hole



0325

0325-0-15-XX-34-XX-10-0

Press-fit in 2,29 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

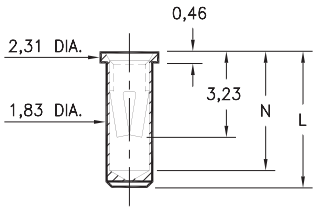
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

0327/0351/0373

03XX-0-15-XX-34-XX-10-0

Solder mount in 1,91 min. mounting hole
Also available on 12mm or 24mm wide carrier tape: See chart for details
See page 194.11 for Tape & Reel details



Basic Part Number	Length L	Depth N
0327-0	5,23	4,57
0351-0	5,74	5,08
0373-0	6,86	6,12

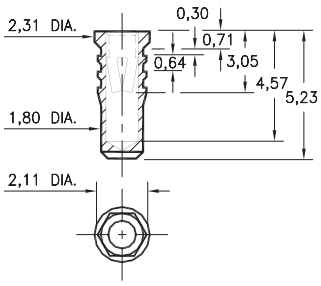
T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
0327-0	12mm	1,400
0351-0	24mm	1,100
0373-0	24mm	1,000

0328

0328-0-15-XX-34-XX-10-0

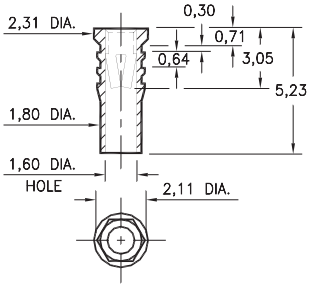
Hex press-fit in 2,01 plated through-hole



0334

0334-0-15-XX-34-XX-10-0

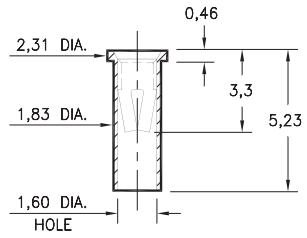
Hex press-fit in 2,01 plated through-hole



0312

0312-0-15-XX-34-XX-10-0

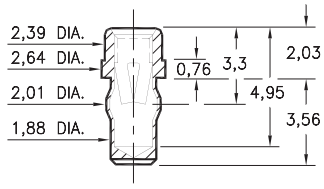
Solder mount in 1,91 min. mounting hole
Also available on 12mm wide carrier tape: 1,400 parts per 330mm reel
See page 194.11 for Tape & Reel details



0333

0333-0-42-XX-34-XX-10-0

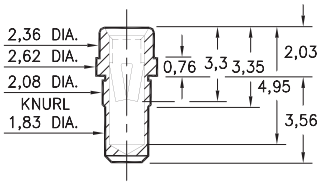
Press-fit in 1,93 mounting hole



0357

0357-0-15-XX-34-XX-10-0

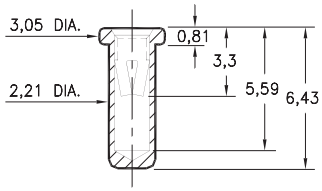
Press-fit in 1,98 mounting hole



0317

0317-0-15-XX-34-XX-04-0

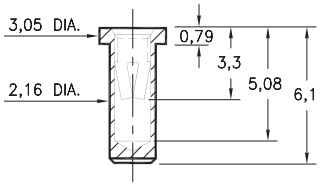
Solder mount in 2,31 min. mounting hole



0340

0340-0-15-XX-34-XX-10-0

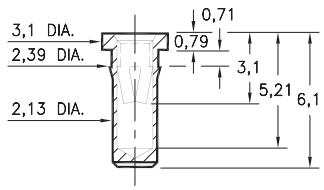
Solder mount in 2,21 min. mounting hole
Also available on 24mm wide carrier tape: 1,250 parts per 330mm reel
See page 194.11 for Tape & Reel details



0345

0345-0-15-XX-34-XX-10-0

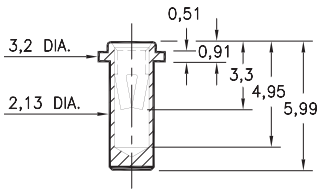
Press-fit in 2,26 mounting hole



0316

0316-0-15-XX-34-XX-10-0

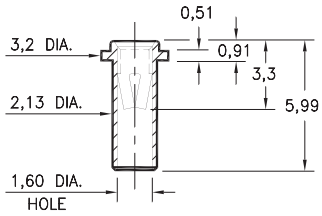
Solder mount in 2,21 min. mounting hole



0314

0314-0-15-XX-34-XX-10-0

Solder mount in 2,21 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

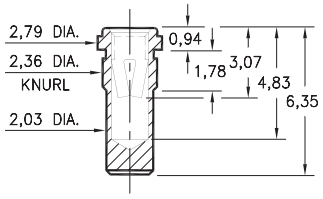
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

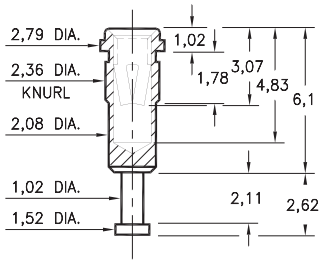
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

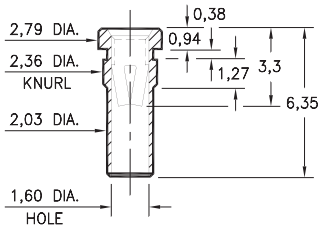
0359
0359-0-15-XX-34-XX-10-0
Press-fit in 2,29 mounting hole



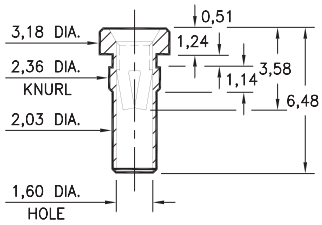
0358
0358-0-15-XX-34-XX-10-0
Press-fit in 2,29 mounting hole



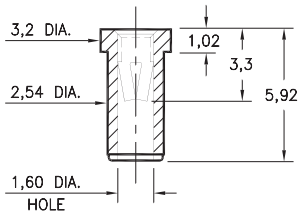
0360
0360-0-15-XX-34-XX-10-0
Press-fit in 2,29 mounting hole



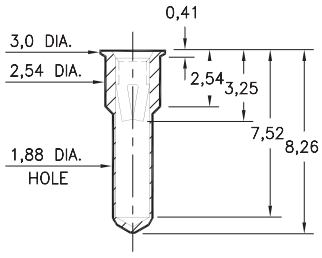
0343
0343-0-15-XX-34-XX-10-0
Press-fit in 2,29 mounting hole



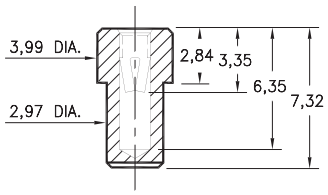
0356
0356-0-15-XX-34-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 330mm reel
See page 194.11 for Tape & Reel details



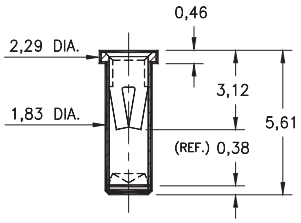
6659
6659-0-15-XX-34-XX-10-0
Solder mount in 2,59 min. mounting hole



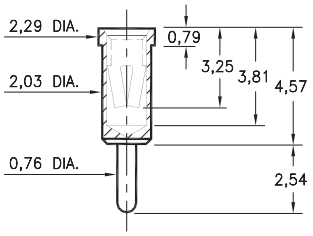
0347
0347-0-15-XX-34-XX-10-0
Solder mount in 3,05 min. mounting hole



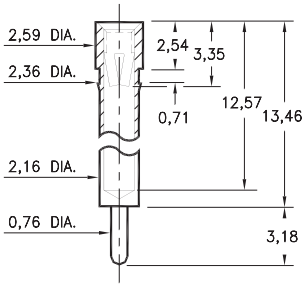
0329
0329-0-15-XX-34-XX-10-0
Solder mount in 1,91 min. mounting hole. "Knock out" bottom



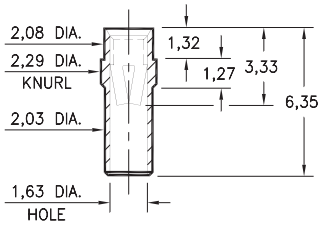
0814
0814-0-15-XX-34-XX-04-0
Solder mount in 2,08 min. mounting hole



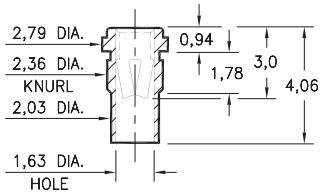
5059
5059-0-15-XX-34-XX-04-0
Press-fit in 2,29 mounting hole



8360
8360-0-15-XX-34-XX-10-0
Press-fit in 2,21 mounting hole



9359
9359-0-15-XX-34-XX-10-0
Press-fit in 2,29 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

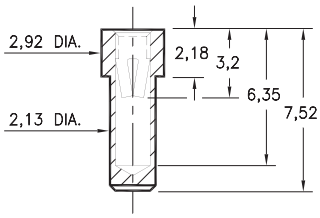
SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

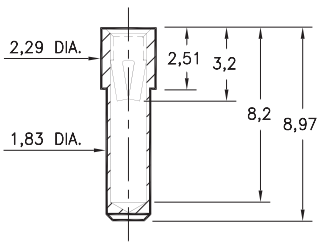
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

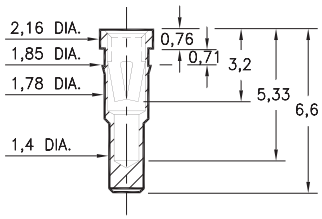
8838
8838-0-15-XX-34-XX-10-0
Solder mount in 2,18 min. mounting hole



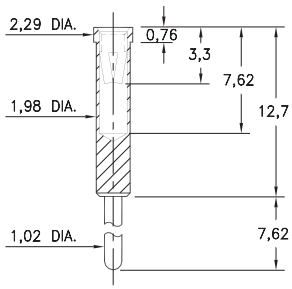
3100
3100-0-15-XX-34-XX-10-0
Solder mount in 1,88 min. mounting hole



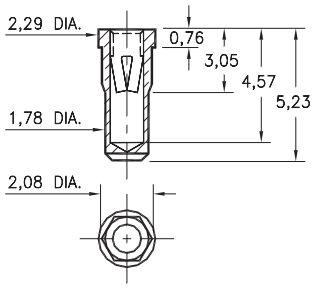
8853
8853-0-15-XX-34-XX-10-0
Press-fit in 1,8 mounting hole



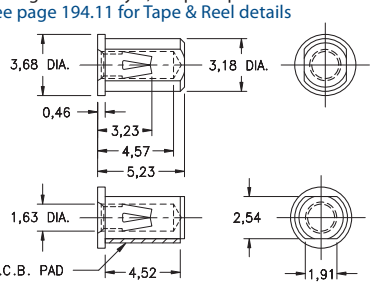
6800
6800-0-15-XX-34-XX-04-0
Solder mount in 2,03 min. mounting hole



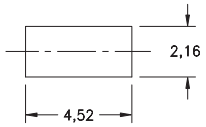
0739
0739-0-15-XX-34-XX-10-0
Hex press-fit in 1,98 plated through-hole



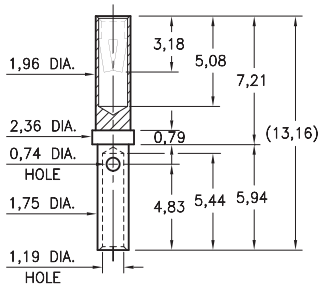
8206
8206-0-15-XX-34-XX-40-0
Surface mount, board edge
Also available on 16mm wide carrier tape:
Packaged Vertically 1,400 parts per 330mm reel
See page 194.11 for Tape & Reel details



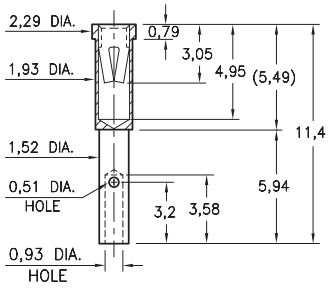
P.C.B. Layout



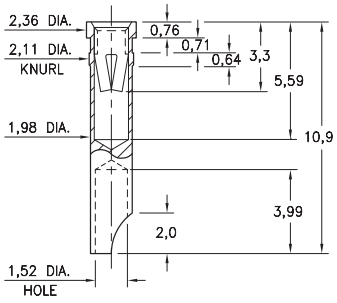
0720
0720-0-33-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



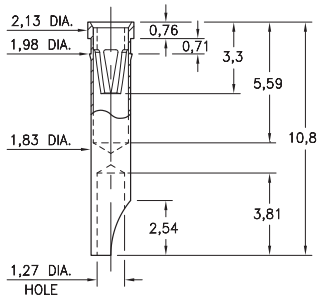
4130
4130-0-33-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



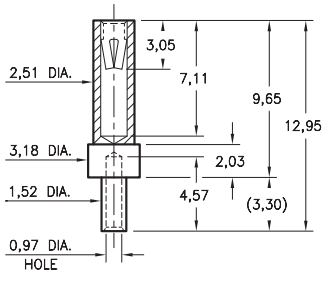
5084
5084-0-18-XX-34-XX-10-0
Press-fit in 2,06 mounting hole



0740
0740-0-18-XX-34-XX-10-0
Press-fit in 1,91 mounting hole
For wire sizes up to 20 AWG



8731
8731-0-19-XX-34-XX-10-0
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

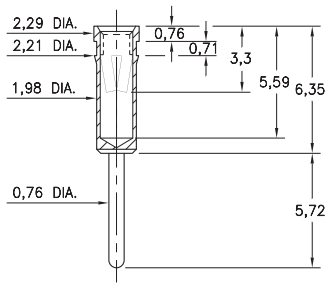
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

8369

8369-0-15-XX-34-XX-04-0

Press-fit in 2,13 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 15 - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

LOOSE PINS & RECEPTACLES ON T&R

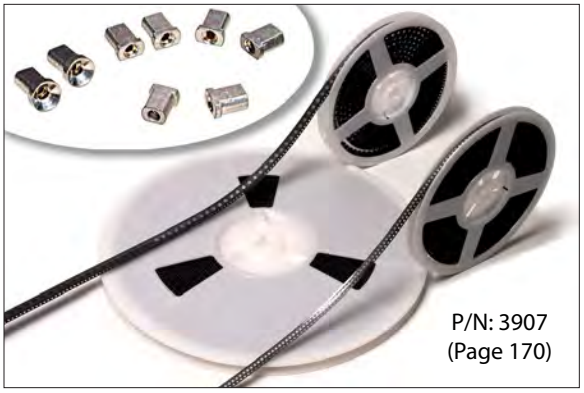
LOOSE PINS & RECEPTACLES FOR AUTOMATED 'PICK & PLACE' ASSEMBLY

Mill-Max offers receptacles (discrete sockets) on carrier tape per EIA-481 to feed automated 'pick & place' assembly equipment. Our standard reel size is 330mm.

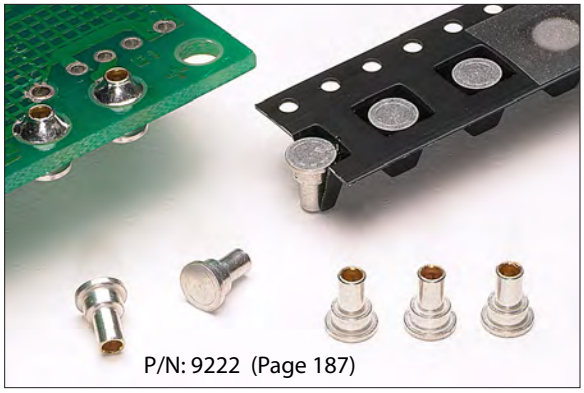
Two types of pins and receptacles are available on carrier tape: surface mount, flat types, which sit on the surface of the PCB where the pin or component lead plugs-in parallel to the PCB; and through-hole types where the lead plugs-in perpendicular to the PCB. Through-hole pins and receptacles are intrusive reflow soldered *.

In addition, open bottom through-hole receptacles are available loaded with our Organic Fibre Plug® barrier which prevents solder paste or flux from contaminating the spring contact. After soldering, the OFP® barrier is pushed out of the receptacle when the device is plugged in.

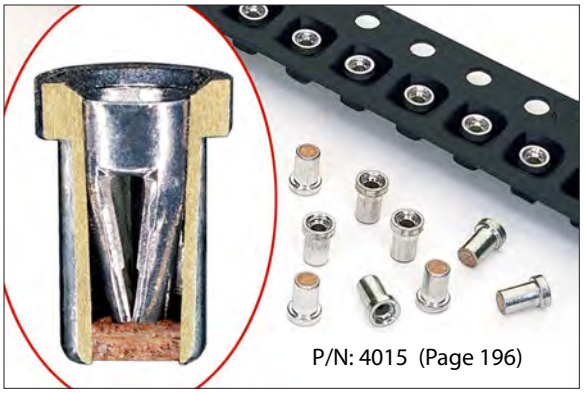
*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated-through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated-through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.



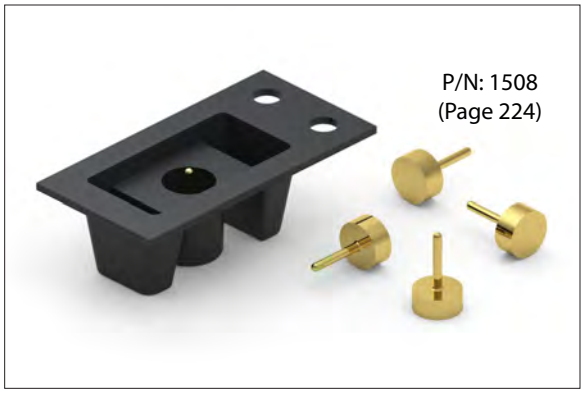
P/N: 3907
(Page 170)



P/N: 9222 (Page 187)



P/N: 4015 (Page 196)



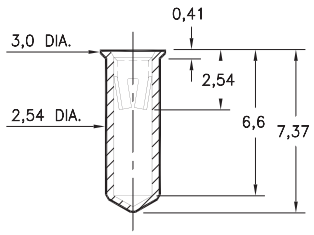
P/N: 1508
(Page 224)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

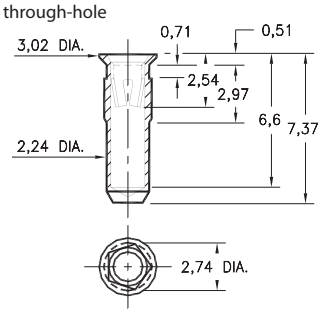
PIN RECEPTACLES

FOR 1,02 - 1,27 DIAMETER PINS (#02 CONTACT)
FOR 1,02 - 1,52 DIAMETER PINS (#03 CONTACT)

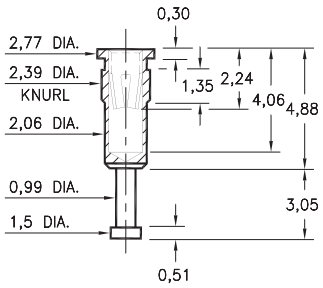
0355
0355-0-15-XX-02-XX-10-0
Solder mount in 2,59 min. mounting hole



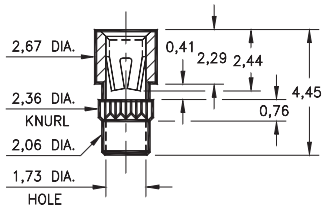
0354
0354-0-15-XX-02-XX-10-0
Pentagonal press-fit in 2,64 min. plated through-hole



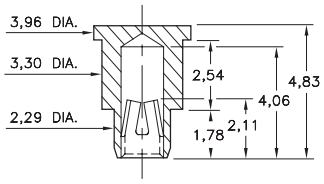
3490
3490-0-15-XX-02-XX-10-0
Press-fit in 2,31 mounting hole



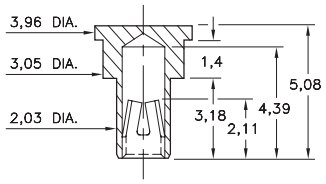
3808
3808-0-15-XX-02-XX-10-0
Press-fit in 2,29 mounting hole



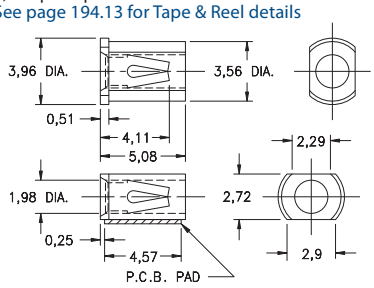
9184
9184-0-15-XX-02-XX-40-0
Bottom entry, surface mount
2,34 min. plated through-hole
Also available on carrier tape,
See page 194.12 for Tape & Reel details



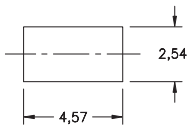
9222
9222-2-15-XX-02-XX-40-0
Bottom entry, surface mount
2,08 min. plated through-hole
Also available on carrier tape,
See page 194.12 for Tape & Reel details



4064
4064-0-18-XX-03-XX-40-0
Surface mount
Also available on 16mm wide carrier tape:
2,400 parts per 330mm reel
See page 194.13 for Tape & Reel details



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 02 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

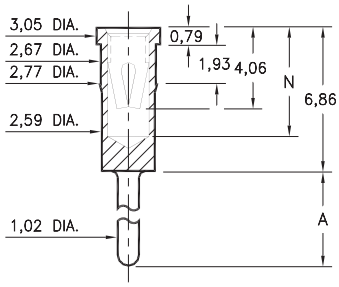
SELECT CONTACT:
#02 or #03 CONTACT (DATA ON PAGE 259)
(For alternate contact choices, see group F on page 248)

PIN RECEPTACLES

FOR 1,02 - 1,52 DIAMETER PINS (#03 CONTACT)
FOR 1,5 - 1,6 DIAMETER PINS (#42 CONTACT)

0433/8433
X433-0-15-XX-03-XX-04-0

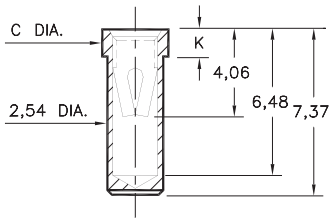
Press-fit in 2,69 mounting hole



Basic Part Number	Length A	Depth N
0433-0	3,05	5,21
8433-0	8,0	5,84

0435/0436
043X-0-15-XX-03-XX-10-0

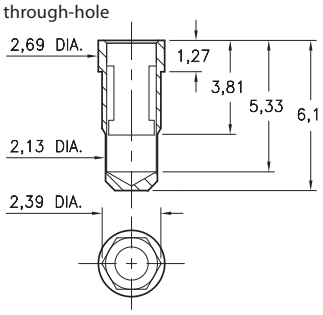
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
See page 194.13 for Tape & Reel details



Basic Part Number	Dia. C	Length K
0435-0	3,0	1,27
0436-0	3,18	1,78

0342
0342-0-15-XX-42-XX-10-0

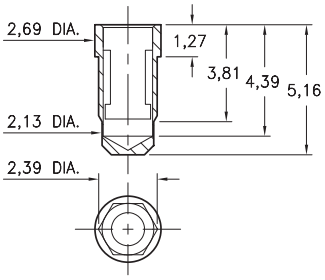
Hex press-fit in 2,29±0,05 plated through-hole



- 0342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the Ø1,55 ±0,05 power pins of ¼ brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

6342
6342-0-15-XX-42-XX-10-0

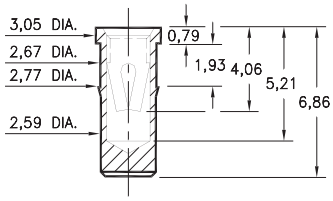
Hex press-fit in 2,29±0,05 plated through-hole



- 6342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the Ø1,55 ±0,05 power pins of ¼ brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

0434
0434-0-15-XX-03-XX-10-0

Press-fit in 2,69 mounting hole



Mechanical Data #42 Contact:
Insertion/Extraction Force with a Ø1,55 (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliancy Test (the "spring back" characteristic of the contact to accept Ø 1,5 small pin after insertion of a Ø1,6 large pin) :

Initial Cycle with Ø1,5 pin		Second Cycle with Ø1,6 pin		Third Cycle with Ø1,5 pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#03 or #42 CONTACT (DATA ON PAGE 259)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

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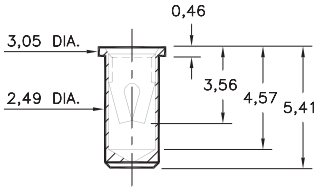
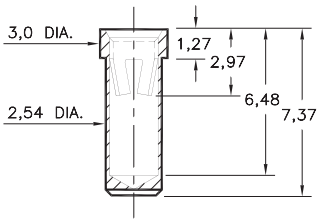
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

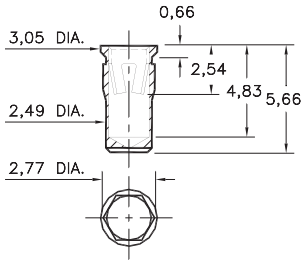
0364
0364-0-15-XX-13-XX-10-0
Solder mount in 2,54 min. mounting hole
Also available on 16mm wide carrier tape:
1,300 parts per 330mm reel
See page 194.13 for Tape & Reel details



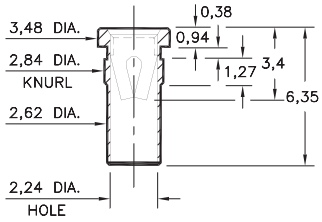
0363
0363-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole



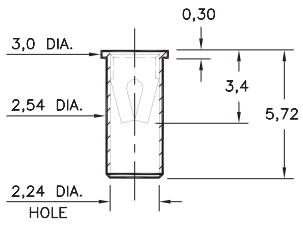
0365
0365-0-15-XX-23-XX-10-0
Hex press-fit in 2,67 plated through-hole
Also available on 16mm wide carrier tape:
1,200 parts per 330mm reel
See page 194.14 for Tape & Reel details



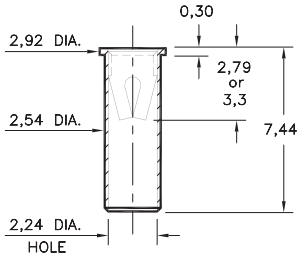
0366
0366-0-15-XX-13-XX-10-0
Press-fit in 2,77 mounting hole



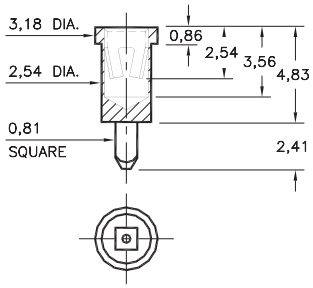
0372
0372-0-15-XX-13-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
See page 194.14 for Tape & Reel details



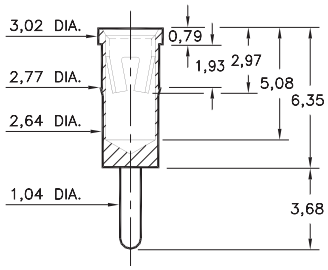
0362
0362-0-15-XX-X3-XX-10-0
Solder mount in 2,59 min. mounting hole



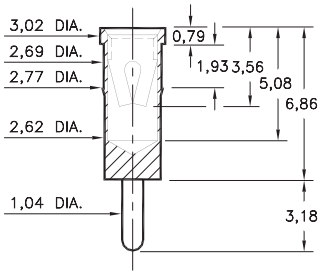
0367
0367-0-15-XX-23-XX-10-0
Square press-fit in 1,02 plated through-hole



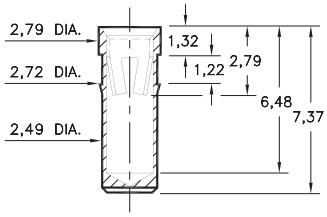
9324
9324-0-15-XX-23-XX-04-0
Press-fit in 2,69 mounting hole



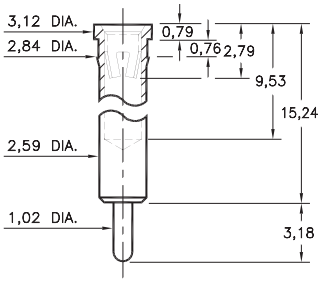
0492
0492-0-15-XX-13-XX-04-0
Press-fit in 2,69 mounting hole



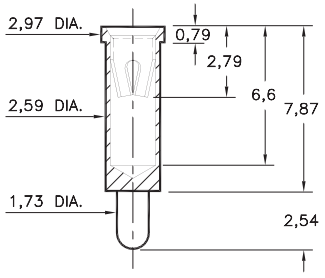
0381
0381-0-15-XX-23-XX-10-0
Press-fit in 2,64 mounting hole



4034
4034-0-15-XX-23-XX-04-0
Press-fit in 2,77 mounting hole



3044
3044-0-15-XX-23-XX-04-0
Solder mount in 2,64 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

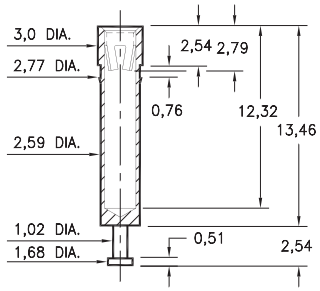
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)

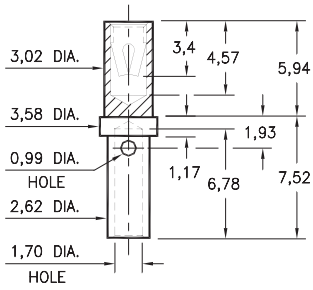
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

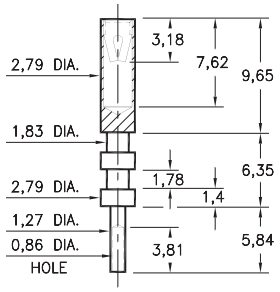
0496
0496-0-15-XX-23-XX-10-0
Press-fit in 2,69 mounting hole



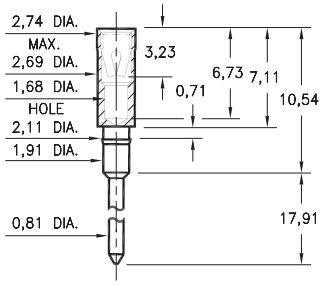
0368
0368-0-33-XX-13-XX-10-0
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



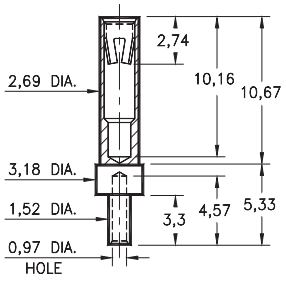
8067
8067-0-19-XX-13-XX-10-0
Wire Termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



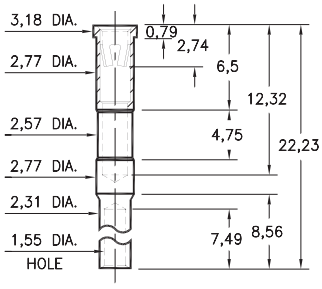
1105
1105-0-15-XX-13-XX-04-0
Press-fit in 2,03 mounting hole



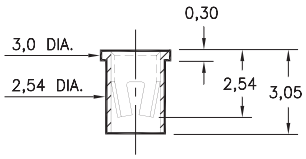
8730
8730-0-19-XX-23-XX-10-0
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



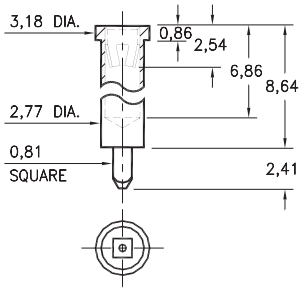
3667
3667-0-19-XX-23-XX-10-0
Wire crimp termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



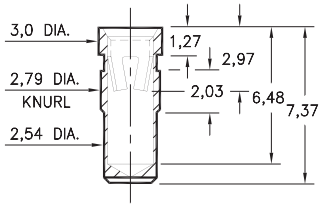
9372
9372-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole



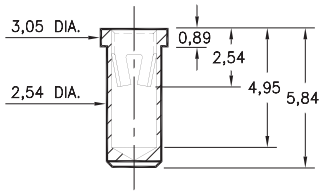
4582
4582-0-15-XX-23-XX-10-0
Square press-fit in 1,02 plated through-hole



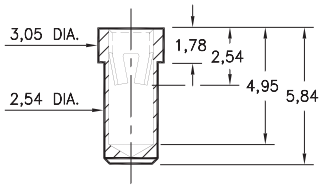
5834
5834-0-15-XX-23-XX-10-0
Press-fit in 2,72 mounting hole



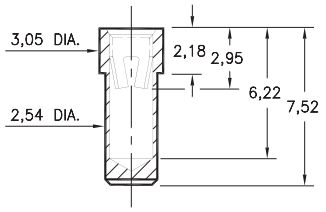
9401
9401-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 330mm reel
See page 194.14 for Tape & Reel details



9801
9801-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 16mm wide carrier tape:
1,200 parts per 330mm reel
See page 194.14 for Tape & Reel details



8829
8829-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
See page 194.14 for Tape & Reel details



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

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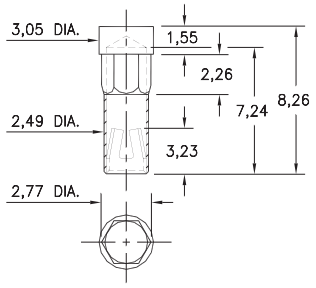
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

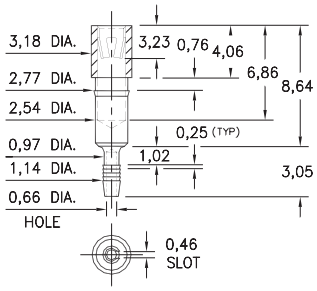
8365
8365-0-15-XX-13-XX-10-0

Hex press-fit in 2,69 plated through-hole



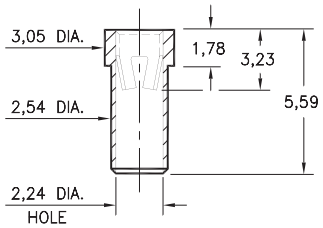
8996
8996-0-31-XX-13-XX-04-0

Compliant press-fit in 1,02 ±0,08 plated hole. For 1,52 → 2,54 thick board



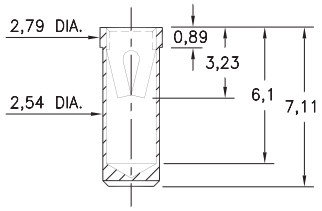
9064
9064-0-15-XX-13-XX-10-0

Solder mount in 2,59 min. mounting hole
Also available on 16mm wide carrier tape: 1,300 parts per 330mm reel
See page 194.14 for Tape & Reel details



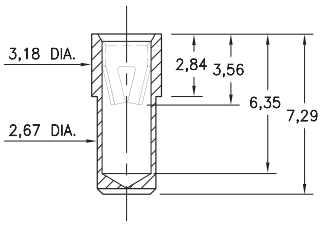
9280
9280-0-15-XX-13-XX-10-0

Solder mount in 2,59 min. mounting hole



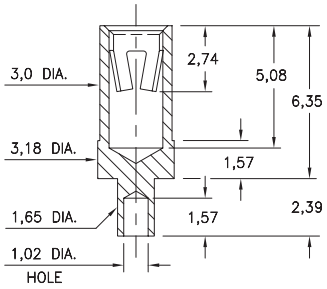
8347
8347-0-15-XX-13-XX-10-0

Solder mount in 2,77 min. mounting hole



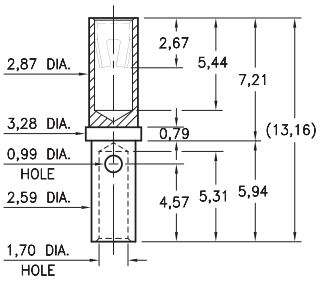
4900
4900-0-19-XX-23-XX-10-0

Swage mount in 1,70 hole



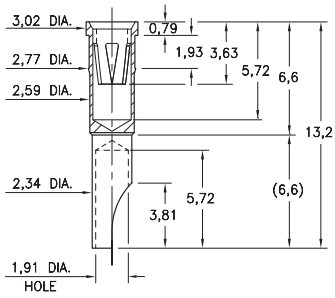
0716
0716-0-33-XX-23-XX-10-0

Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



0760
0760-0-18-XX-13-XX-10-0

Press-fit in 2,69 mounting hole
For wire sizes up to 16 AWG



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

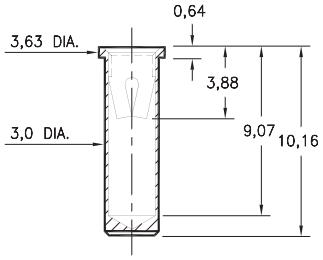
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)

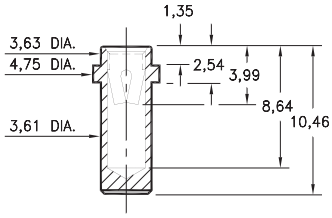
PIN RECEPTACLES

FOR 1,65 - 2,08 DIAMETER PINS

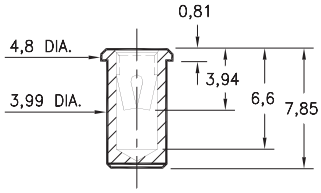
0394
0394-0-15-XX-07-XX-10-0
Solder mount in 3,05 min. mounting hole



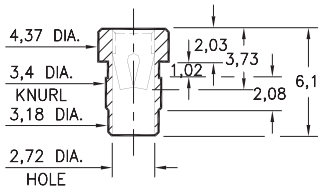
0393
0393-0-15-XX-07-XX-10-0
Solder mount in 3,66 min. mounting hole



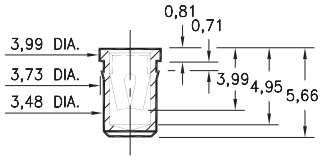
0391
0391-0-15-XX-07-XX-10-0
Solder mount in 4,04 min. mounting hole



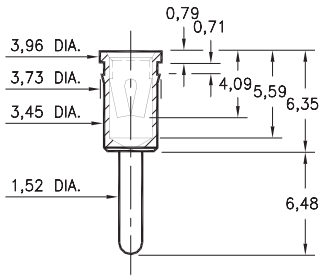
9016
9016-0-15-XX-07-XX-10-0
Press-fit in 3,33 mounting hole



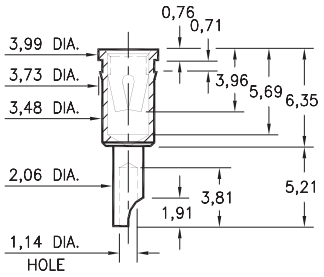
0493
0493-0-15-XX-07-XX-10-0
Press-fit in 3,66 mounting hole



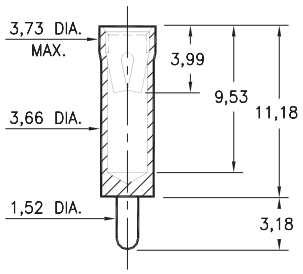
0490
0490-0-15-XX-07-XX-04-0
Press-fit in 3,66 mounting hole



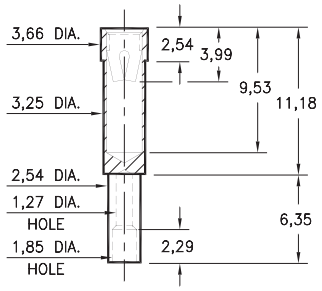
0616
0616-0-18-XX-07-XX-10-0
Press-fit in 3,66 mouting hole
Accepts wire sizes up to 0,89 dia.



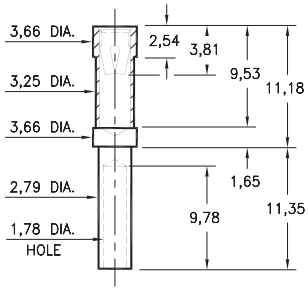
0387
0387-0-15-XX-07-XX-04-0
Solder mount in 1,60 min. mounting hole



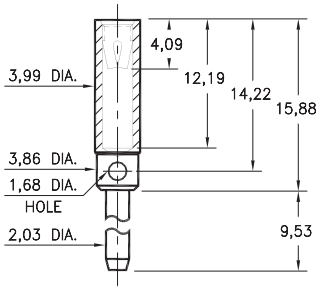
0370
0370-0-19-XX-07-XX-10-0
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



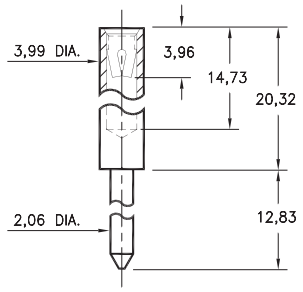
4040
4040-0-19-XX-07-XX-10-0
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



0491
0491-0-19-XX-07-XX-04-0
For horizontal wire termination



9214
9214-0-15-XX-07-XX-10-0
Solder mount in 2,11 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - 07 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#07 CONTACT (DATA ON PAGE 261)
(For alternate contact choices, see group H on page 248)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

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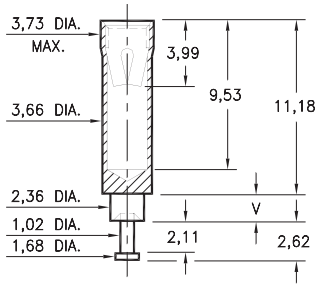
PIN RECEPTACLES

FOR 1,65 - 2,08 DIAMETER PINS

0395

0395-X-15-XX-07-XX-10-0

Swage mount in 2,44 hole

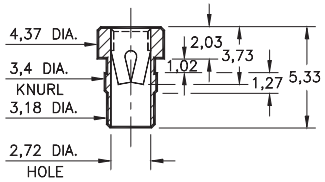


Basic Part Number	Board Thickness	Length V
0395-1	0,79	1,57
0395-2	1,57	2,39
0395-3	2,39	3,18
0395-4	3,18	3,96
0395-5	4,78	5,56

8016

8016-0-15-XX-07-XX-10-0

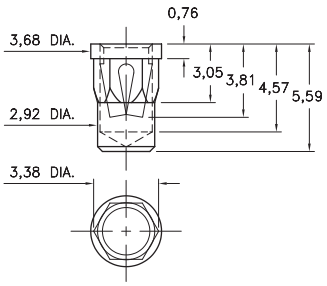
Press-fit in 3,33 mounting hole



0350

0350-0-15-XX-07-XX-10-0

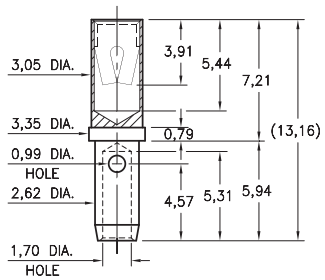
Hex press-fit in 3,28±0,05 plated through-hole



0714

0714-0-33-XX-07-XX-10-0

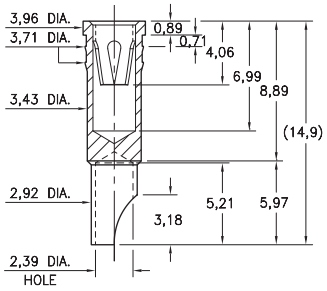
Wire crimp termination. Accepts wire sizes 14 AWG Max. / 16 AWG Min.



0778

0778-0-18-XX-07-XX-10-0

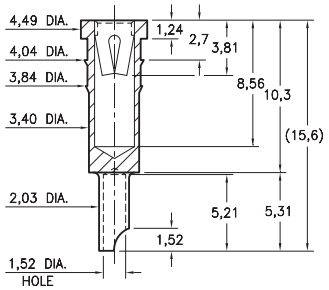
Press-fit in 3,63 mouting hole
Accepts wire sizes up to 14 AWG



9177

9177-0-18-XX-07-XX-10-0

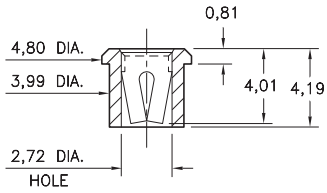
Press-fit in 3,84 mouting hole
Accepts wire sizes up to 16 AWG



5391

5391-0-15-XX-07-XX-10-0

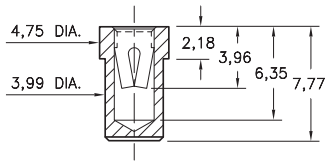
Solder mount in 4,04 min. mounting hole



8837

8837-0-15-XX-14-XX-10-0

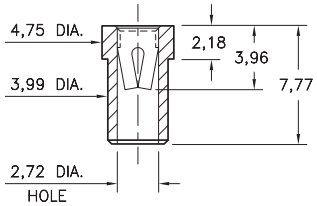
Solder mount in 4,04 min. mounting hole



9837

9837-0-15-XX-14-XX-10-0

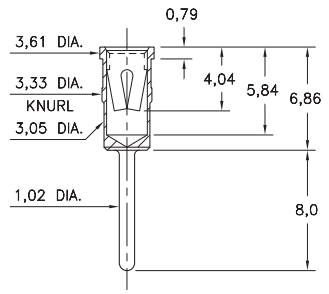
Solder mount in 4,04 min. mounting hole



8994

8994-0-15-XX-07-XX-04-0

Press-fit in 3,25 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#07 or #14 CONTACT (DATA ON PAGE 261)
(For alternate contact choices, see group H on page 248)

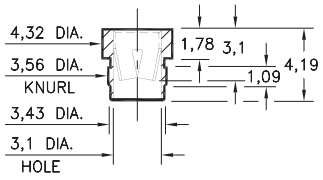
PIN RECEPTACLES

FOR 2,13 - 2,59 DIAMETER PINS

0388

0388-0-15-XX-08-XX-10-0

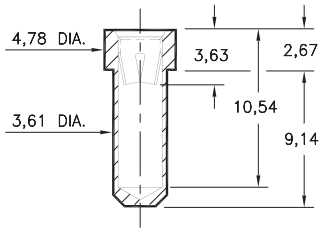
Press-fit in 3,51 mounting hole



0390

0390-0-15-XX-08-XX-10-0

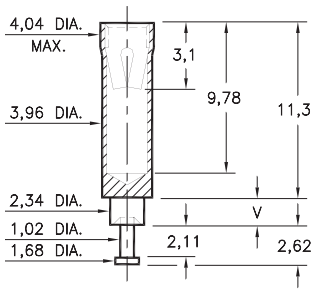
Solder mount in 3,66 min. mounting hole



0389

0389-X-15-XX-08-XX-10-0

Swage mount in 2,39 hole

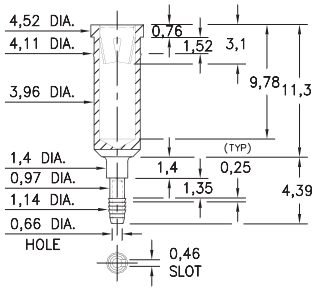


Basic Part Number	Board Thickness	Length V
0389-2	1,57	2,39
0389-3	2,39	3,18
0389-4	3,18	3,96

8963

8963-0-31-XX-08-XX-04-0

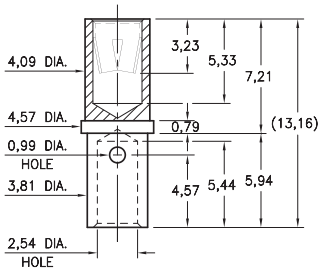
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



0712

0712-0-33-XX-08-XX-10-0

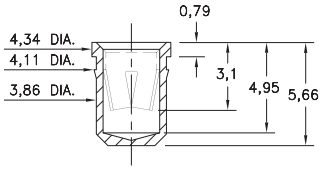
Wire crimp termination. Accepts wire sizes 12 AWG Max. / 14 AWG Min.



5493

5493-0-15-XX-08-XX-10-0

Press-fit in 4,01 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 08 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#08 CONTACT (DATA ON PAGE 262)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

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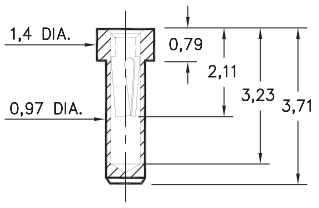
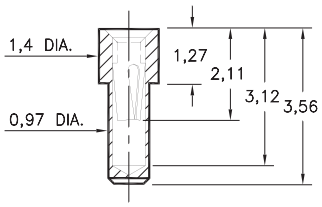
PIN RECEPTACLES

FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
FOR 0,38 - 0,56 DIAMETER PINS (#21 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING

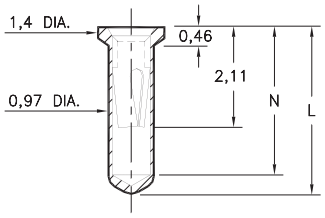
1407
1407-0-15-XX-11-XX-10-0
Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 1407-0-57-XX-11-XX-10-0



0569
0569-0-15-XX-X1-XX-10-0
Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
Order as: 0569-0-57-XX-X1-XX-10-0

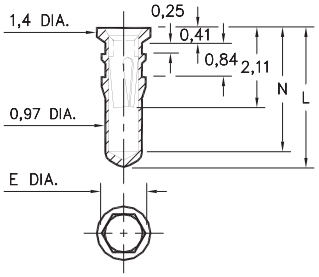


0552
0552-X-15-XX-X1-XX-10-0
Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0552-X-57-XX-X1-XX-10-0



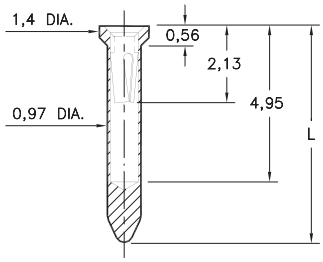
Basic Part Number	Length L	Depth N
0552-1	3,45	3,05
0552-2	4,32	3,81

0553
0553-X-15-XX-X1-XX-10-0
Also available on 16mm wide carrier tape:
1,580 parts per 330mm reel
Order as: 0553-2-57-XX-11-XX-10-0



Basic Part Number	Hex Dia. E	Length L	Depth N
0553-1	1,12	3,56	3,15
0553-2	1,12	4,32	3,91
0553-3	1,12	7,16	6,76

8579
8579-X-15-XX-X1-XX-10-0
Solder mount in 1,02 min. mounting hole
Also available on 24mm wide carrier tape:
1,200 parts per 330mm reel
Order as: 8579-0-57-XX-X1-XX-10-0



Basic Part Number	Length L
8579-0	5,94
8579-1	7,49

T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
8579-0	24mm	1,200
8579-1	24mm	1,000

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

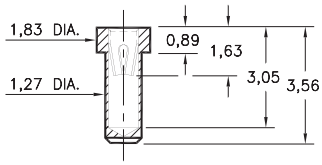
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#11 or #21 CONTACT (DATA ON PAGE 251)
(For alternate contact choices, see group A on page 248)

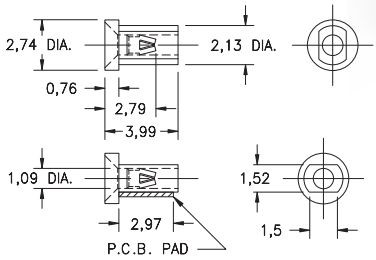
PIN RECEPTACLES

FOR 0,38 - 0,56 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

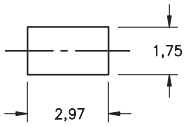
0550 *
0550-0-15-XX-22-XX-10-0
Solder mount in 1,32 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0550-0-57-XX-22-XX-10-0



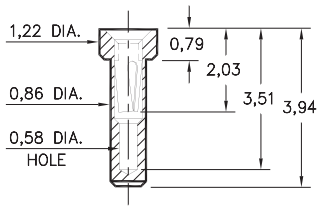
5739
5739-0-18-XX-12-XX-10-0
Surface mount
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel
Order as: 5739-0-58-XX-12-XX-10-0



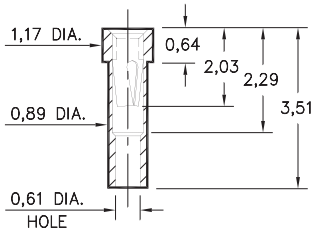
P.C.B. Layout



3016
3016-0-15-XX-21-XX-10-0
Solder mount in 0,91 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 330mm reel
Order as: 3016-0-57-XX-21-XX-10-0



8637
8637-0-15-XX-21-XX-10-0
Solder mount in 0,94 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
Order as: 8637-0-57-XX-21-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

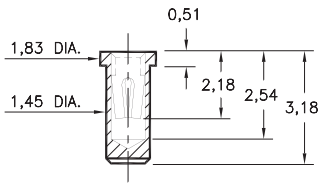
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#12, #21 or #22 CONTACT (DATA ON PAGE 252)
(Contact may be interchanged with group A, B & C contact on page 248)

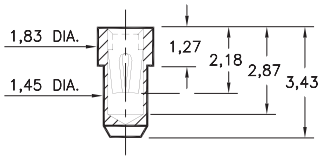
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

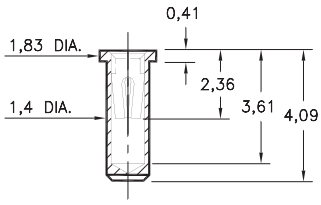
0669
0669-0-15-XX-30-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0669-0-57-XX-30-XX-10-0



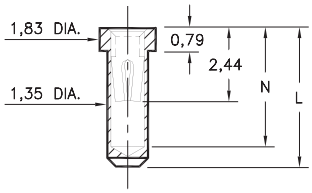
0670
0670-0-15-XX-30-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
Order as: 0670-0-57-XX-30-XX-10-0



0667
0667-0-15-XX-30-XX-10-0
Solder mount in 1,45 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0667-0-57-XX-30-XX-10-0

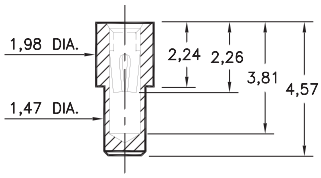


1401/3185
XXXX-0-15-XX-30-XX-10-0
Solder mount in 1,4 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: XXXX-0-57-XX-30-XX-10-0

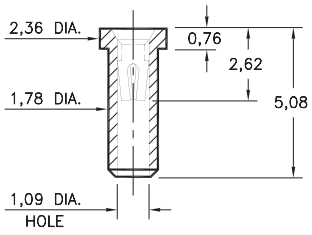


Basic Part Number	Length L	Depth N
1401-0	4,19	3,68
3185-0	3,30	2,77

0665
0665-0-15-XX-30-XX-10-0
Solder mount in 1,55 min. mounting hole
Also available on 16mm wide carrier tape:
1,580 parts per 330mm reel
Order as: 0665-0-57-XX-30-XX-10-0



0341
0341-0-15-XX-30-XX-10-0
Solder mount in 1,85 mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
Order as: 0341-0-57-XX-30-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

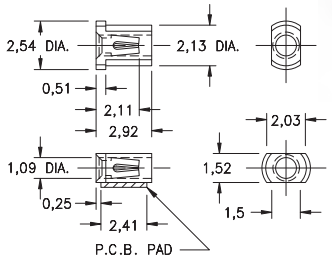
SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see group B & C on page 248)

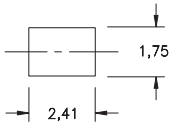
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

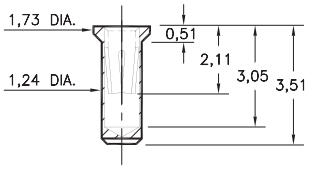
3907
3907-0-18-XX-30-XX-10-0
Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 330mm reel
Order as: 3907-0-58-XX-30-XX-10-0



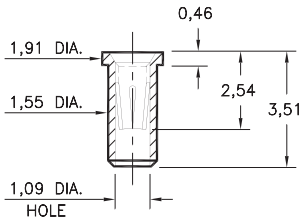
P.C.B. Layout



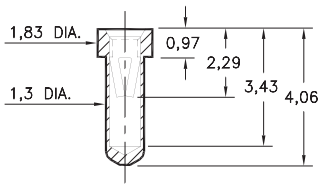
0680
0680-0-15-XX-32-XX-10-0
Solder mount in 1,3 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0680-0-57-XX-32-XX-10-0



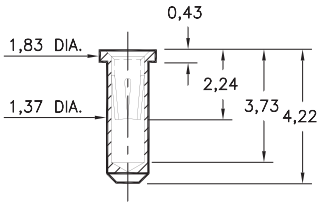
0666
0666-0-15-XX-32-XX-10-0
Solder mount in 1,63 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 330mm reel
Order as: 0666-0-57-XX-32-XX-10-0



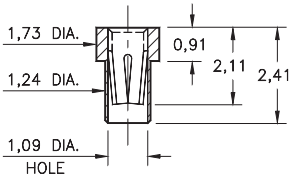
0555
0555-0-15-XX-32-XX-10-0
Solder mount in 1,35 min. mounting hole
Also available on 16mm wide carrier tape:
1,800 parts per 330mm reel
Order as: 0555-0-57-XX-32-XX-10-0



0682
0682-0-15-XX-32-XX-10-0
Solder mount in 1,42 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0682-0-57-XX-32-XX-10-0



5342
5342-0-15-XX-35-XX-10-0
Solder mount in 1,3 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel
Order as: 5342-0-57-XX-35-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

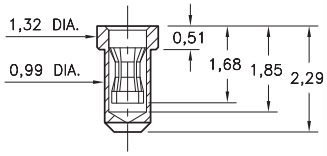
SELECT CONTACT:
#30, #32 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see group B & C on page 248)

PIN RECEPTACLES

FOR 0,46 - 0,58 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0507
0507-0-15-XX-31-XX-10-0

Solder mount in 1,07 min. mounting hole
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel
Order as: 0507-0-57-XX-31-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

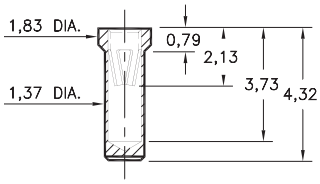
SELECT CONTACT:
#31 CONTACT
(For alternate contact choices, see group A on page 248)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

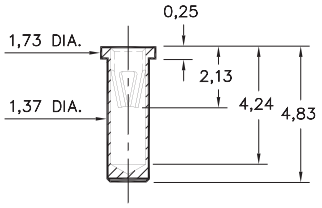
PIN RECEPTACLES

FOR 0,51 - 0,81 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0338
0338-0-15-XX-15-XX-10-0
Solder mount in 1,45 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0338-0-57-XX-15-XX-10-0



0339
0339-0-15-XX-15-XX-10-0
Solder mount in 1,45 min. mounting hole
Also available on 24mm wide carrier tape:
1,540 parts per 330mm reel
Order as: 0339-0-57-XX-15-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

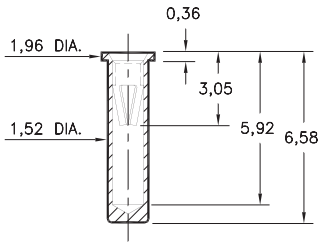
SELECT CONTACT:
#15 CONTACT (DATA ON PAGE 254)
(For alternate contact choices, see group K on page 248)

PIN RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

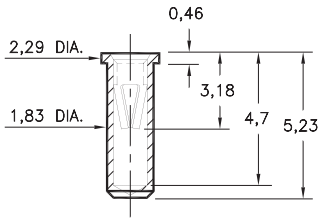
0295
0295-0-15-XX-06-XX-10-0

Solder mount in 1,60 min. mounting hole
Also available on 12mm wide carrier tape:
1,000 parts per 330mm reel
Order as: 0295-0-57-XX-06-XX-10-0



0294
0294-0-15-XX-06-XX-10-0

Solder mount in 1,93 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
Order as: 0294-0-57-XX-06-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

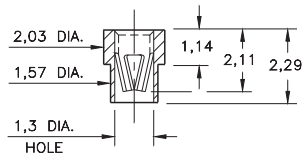
SELECT CONTACT:
#06 CONTACT (DATA ON PAGE 255)
(For alternate contact choices, see group D on page 248)

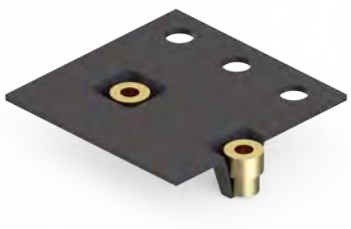
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

PIN RECEPTACLES

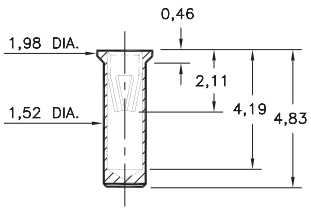
FOR 0,56 - 0,86 DIAMETER PINS AND 0,64 SQUARE PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0287
0287-0-15-XX-16-XX-10-0
Solder mount in 1,65 min. mounting hole
Also available on 8mm wide carrier tape:
3,250 parts per 330mm reel
Order as: 0287-0-57-XX-16-XX-10-0

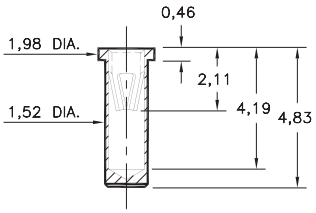




0415
0415-0-15-XX-16-XX-10-0
Solder mount in 1,6 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0415-0-57-XX-16-XX-10-0



6021
6021-0-15-XX-16-XX-10-0
Solder mount in 1,57 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 6021-0-57-XX-16-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

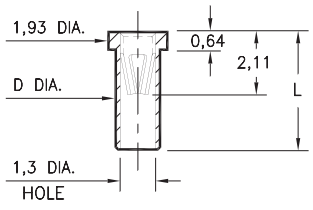
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#16 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0305
0305-X-15-XX-47-XX-10-0
Solder mount in 1,5 / 1,55 mounting hole
Also available on 8mm or 24mm wide carrier tape: See chart for details
Order as: 0305-X-57-XX-47-XX-10-0

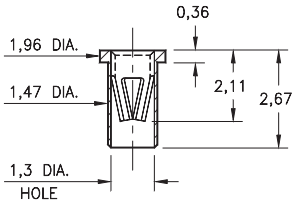


Basic Part Number	Length L	Dia. D
0305-0	2,41	1,42
0305-1	2,67	1,47
0305-2	3,94	1,47

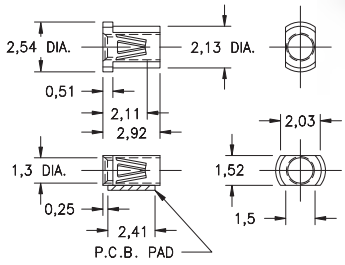
T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
0305-0	8mm	6,000
0305-1	8mm	6,000
0305-2	24mm	1,500

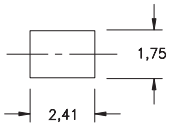
7305
7305-0-15-XX-47-XX-10-0
Solder mount in 1,52 min. mounting hole
Also available on 8mm wide carrier tape: 6,000 parts per 330mm reel
Order as: 7305-0-57-XX-47-XX-10-0



8806
8806-0-18-XX-47-XX-40-0
Surface mount
Also available on 12mm wide carrier tape: 4,000 parts per 330mm reel
Order as: 8806-0-58-XX-47-XX-10-0



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

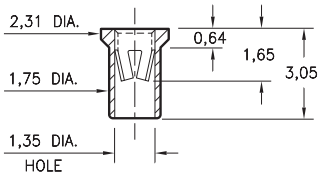
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#47 CONTACT (DATA ON PAGE 256)
(For alternate contact choices, see group D on page 248)

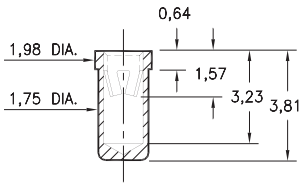
PIN RECEPTACLES

FOR 0,94 - 1,09 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

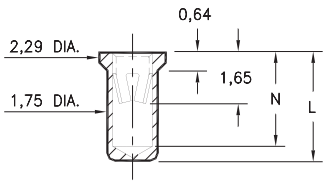
7406
7406-0-15-XX-18-XX-10-0
Solder mount in 1,80 min. mounting hole
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel
Order as: 7406-0-57-XX-18-XX-10-0



8331
8331-0-15-XX-18-XX-10-0
Solder mount in 1,80 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 330mm reel
Order as: 8331-0-57-XX-18-XX-10-0

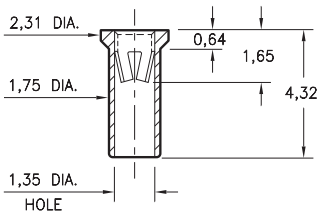


0331/9353
X3XX-0-15-XX-18-XX-10-0
Solder mount in 1,80 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 330mm reel
Order as: X3XX-0-57-XX-18-XX-10-0

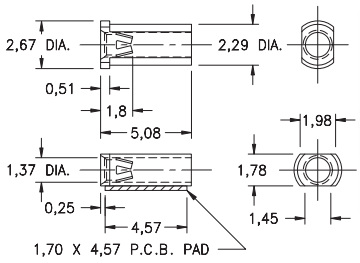


Basic Part Number	Length L	Depth N
0331-0	3,81	3,23
9353-0	4,32	3,73

9354
9354-0-15-XX-18-XX-10-0
Solder mount in 1,80 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
Order as: 9354-0-57-XX-18-XX-10-0



6628
6628-0-18-XX-18-XX-10-0
Surface mount
Also available on 12mm wide carrier tape:
3,700 parts per 330mm reel
Order as: 6628-0-58-XX-18-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

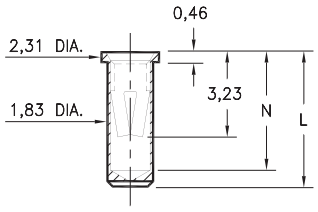
SELECT CONTACT:
#18 CONTACT (DATA ON PAGE 257)
(For alternate contact choices, see group L on page 248)

PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0327/0351/0373
03XX-0-15-XX-34-XX-10-0

Solder mount in 1,91 min. mounting hole
Also available on 12mm or 24mm wide carrier tape: See chart for details
Order as: 03XX-0-57-XX-34-XX-10-0



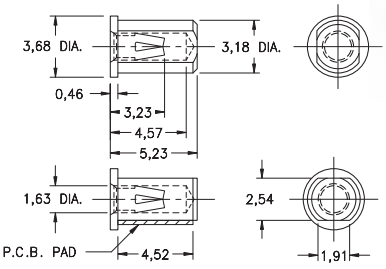
Basic Part Number	Length L	Depth N
0327-0	5,23	4,57
0351-0	5,74	5,08
0373-0	6,86	6,12

T&R Packaging

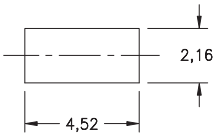
Basic Part Number	Tape Width	Parts per 13" Reel
0327-0	12mm	1,400
0351-0	24mm	1,100
0373-0	24mm	1,000

8206
8206-0-15-XX-34-XX-40-0

Surface mount, board edge
Also available on 16mm wide carrier tape: Packaged Vertically 1,400 parts per 330mm reel
Order as: 8206-0-57-XX-34-XX-40-0

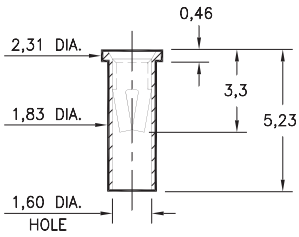


P.C.B. Layout



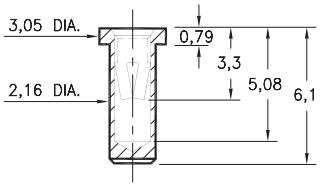
0312
0312-0-15-XX-34-XX-10-0

Solder mount in 1,91 min. mounting hole
Also available on 12mm wide carrier tape: 1,400 parts per 330mm reel
Order as: 0312-0-57-XX-34-XX-10-0



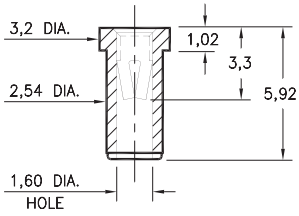
0340
0340-0-15-XX-34-XX-10-0

Solder mount in 2,21 min. mounting hole
Also available on 24mm wide carrier tape: 1,250 parts per 330mm reel
Order as: 0340-0-57-XX-34-XX-10-0



0356
0356-0-15-XX-34-XX-10-0

Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape: 1,100 parts per 330mm reel
Order as: 0356-0-57-XX-34-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

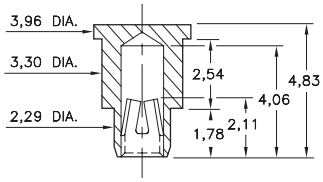
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

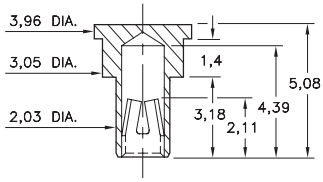
PIN RECEPTACLES

FOR 1,02 - 1,27 DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

9184
9184-0-15-XX-02-XX-40-0
Bottom entry, surface mount
2,34 min. plated through-hole
Also available on carrier tape,
Order as: 9184-0-57-XX-02-XX-40-0



9222
9222-2-15-XX-02-XX-40-0
Bottom entry, surface mount
2,08 min. plated through-hole
Also available on carrier tape,
Order as: 9222-2-57-XX-02-XX-40-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

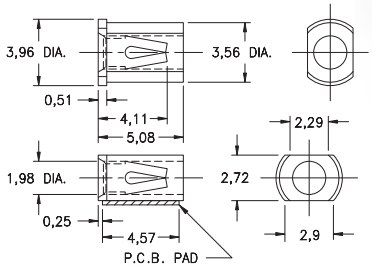
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#02 CONTACT (DATA ON PAGE 259)
(For alternate contact choices, see group F on page 248)

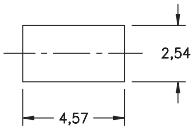
PIN RECEPTACLES

FOR 1,02 - 1,52 DIAMETER PINS (#03 CONTACT)
FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING

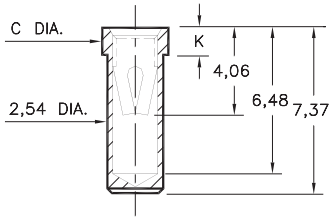
4064
4064-0-18-XX-03-XX-40-0
Surface mount
Also available on 16mm wide carrier tape:
2,400 parts per 330mm reel
Order as: 4064-0-58-XX-03-XX-40-0



P.C.B. Layout

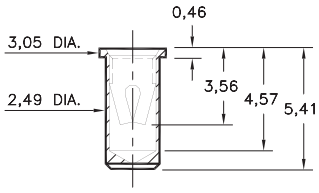


0435/0436
043X-0-15-XX-03-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
Order as: 0435-0-57-XX-03-XX-10-0



Basic Part Number	Dia. C	Length K
0435-0	3,0	1,27
0436-0	3,18	1,78

0364
0364-0-15-XX-13-XX-10-0
Solder mount in 2,54 min. mounting hole
Also available on 16mm wide carrier tape:
1,300 parts per 330mm reel
Order as: 0364-0-57-XX-13-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

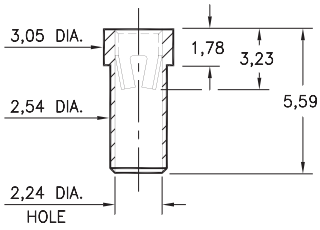
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#03 or #13 CONTACT (DATA ON PAGE 259 - 260)

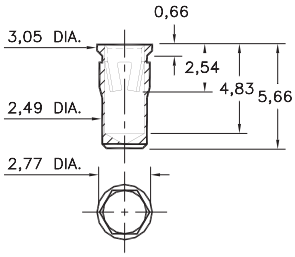
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING

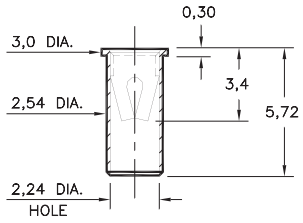
9064
9064-0-15-XX-13-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 16mm wide carrier tape:
1,300 parts per 330mm reel
Order as: 9064-0-57-XX-13-XX-10-0



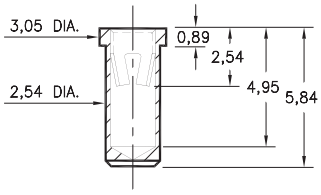
0365
0365-0-15-XX-23-XX-10-0
Hex press-fit in 2,67 plated through-hole
Also available on 16mm wide carrier tape:
1,200 parts per 330mm reel
Order as: 0365-0-57-XX-23-XX-10-0



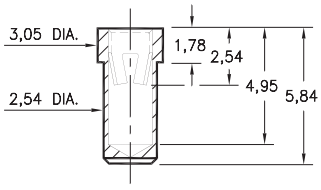
0372
0372-0-15-XX-13-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
Order as: 0372-0-57-XX-13-XX-10-0



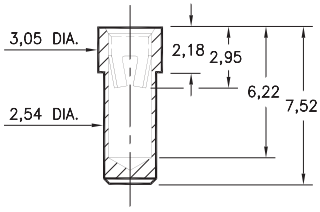
9401
9401-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 330mm reel
Order as: 9401-0-57-XX-23-XX-10-0



9801
9801-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 16mm wide carrier tape:
1,200 parts per 330mm reel
Order as: 9801-0-57-XX-23-XX-10-0



8829
8829-0-15-XX-23-XX-10-0
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 330mm reel
Order as: 8829-0-57-XX-23-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS - 2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

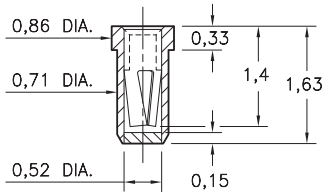
SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)

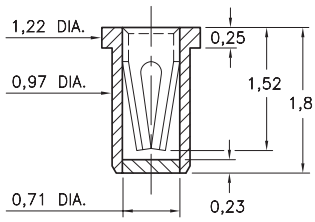
PIN RECEPTACLES

PIN RECEPTACLES
WITH ORGANIC FIBRE PLUG® SOLDER BARRIER
(SEE SPECIFIC CONTACT RANGE ON PAGES 250, 251 & 253)

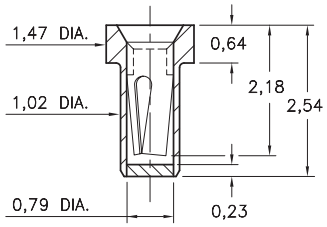
4428
4428-0-XX-XX-04-XX-10-0
Solder mount in Ø 0,81 max. PTH
#04 Contact for Ø 0,20 - 0,33 pins
Also available on 16mm wide carrier tape:
3,400 parts per 330mm reel



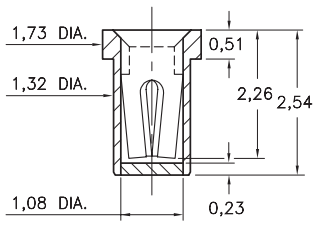
5359
5359-0-XX-XX-10-XX-10-0
Solder mount in Ø 1,09 ± 0,08 PTH
#10 Contact for Ø 0,30 - 0,43 pins
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel



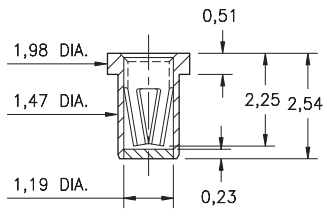
0577
0577-0-XX-XX-21-XX-10-0
Solder mount in Ø 1,14 ± 0,08 PTH
#21 Contact for Ø 0,38 - 0,56 pins
Also available on 12mm wide carrier tape:
3,000 parts per 330mm reel

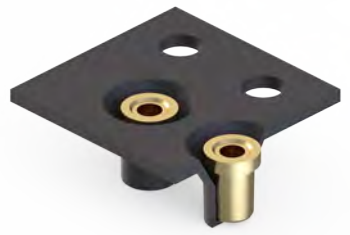


4015
4015-0-XX-XX-30-XX-10-0
Solder mount in Ø 1,45 ± 0,08 PTH
#30 Contact for Ø 0,38 - 0,64 pins
Also available on 8mm wide carrier tape:
5,500 parts per 330mm reel

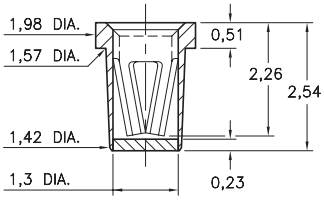


0337
0337-0-XX-XX-15-XX-10-0
Solder mount in Ø 1,68 ± 0,08 PTH
#15 Contact for Ø 0,51 - 0,81 pins
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel





4280
4280-0-XX-XX-16-XX-10-0
Solder mount in Ø 1,7 ± 0,08 PTH
#16 Contact for Ø 0,56 - 0,86 pins
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:
43 Discrete Receptacles
67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:
01 5,08µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

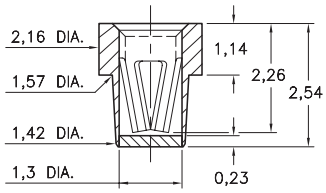
CONTACT:
#04, #10, #15, #16, #21 or #30 CONTACT (DATA ON PAGES 250, 251 & 253)

SPECIFY CONTACT FINISH:
◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)
02 2,54µm TIN/LEAD OVER NICKEL
◆ **84** 2,54µm TIN OVER NICKEL (RoHS)

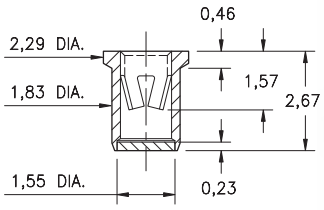
PIN RECEPTACLES

PIN RECEPTACLES
WITH ORGANIC FIBRE PLUG® SOLDER BARRIER
(SEE SPECIFIC CONTACT RANGE ON PAGES 254 - 262)

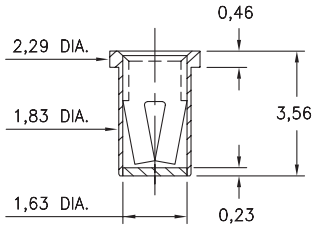
5280
5280-0-XX-XX-16-XX-40-0
Solder mount in Ø 1,7 ± 0,08 PTH
#16 Contact for Ø 0,56 - 0,86 pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



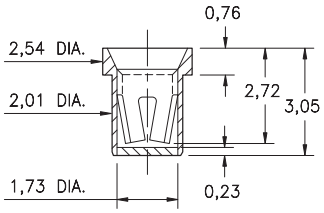
0332
0332-0-XX-XX-18-XX-10-0
Solder mount in Ø 2,01 ± 0,08 PTH
#18 Contact for Ø 0,94 - 1,09 pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



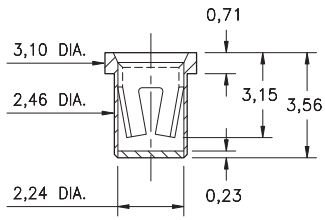
0479
0479-0-XX-XX-34-XX-10-0
Solder mount in Ø 1,96 ±0,08 PTH
#34 Contact for Ø 0,81 - 1,17 pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



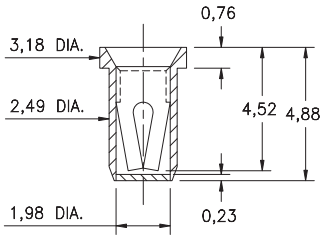
0375
0375-0-XX-XX-02-XX-10-0
Solder mount in Ø 2,21 ± 0,08 PTH
#02 Contact for Ø 1,02 - 1,27 pins
Also available on 12mm wide carrier tape:
4,500 parts per 330mm reel



0384
0384-0-XX-XX-23-XX-10-0
Solder mount in Ø 2,67 ± 0,08 PTH
#23 Contact for Ø 1,14 - 1,65" pins
Also available on 12mm wide carrier tape:
2,000 parts per 330mm reel



0353
0353-0-XX-XX-03-XX-10-0
Solder mount in Ø 2,69 ± 0,08 PTH
#03 Contact for Ø 1,02 - 1,52 pins
Also available on 12mm wide carrier tape:
1,300 parts per 330mm reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°

RoHS - 2 2011/65/EU

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:
43 Discrete Receptacles
67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:
01 5,08µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

CONTACT:
#02, #03, #16, #18, #23, or #34 CONTACT (DATA ON PAGES 254 - 262)

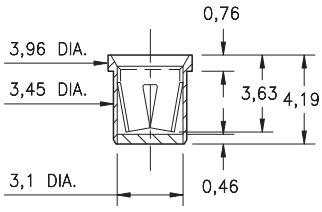
SPECIFY CONTACT FINISH:
◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)
02 2,54µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

PIN RECEPTACLES

PIN RECEPTACLES
WITH ORGANIC FIBRE PLUG® SOLDER BARRIER
(SEE SPECIFIC CONTACT RANGE ON PAGES 256 - 262)

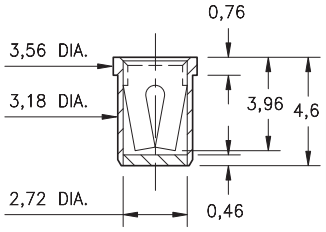
0321
0321-0-XX-XX-08-XX-10-0

Solder mount in Ø 3,66 ± 0,08 PTH
#08 Contact for Ø 2,13 - 2,59 pins
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel



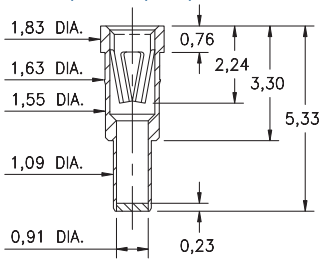
0376
0376-0-XX-XX-07-XX-10-0

Solder mount in Ø 3,38 ± 0,08 PTH
#07 Contact for Ø 1,65" - 2,08 pins
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel



3435
3435-0-XX-XX-47-XX-04-0

Solder mount in Ø 1,17 ± 0,08 PTH
#47 Contact for Ø 0,64 - 0,94 and 0,64 square pins. Also available on 24mm wide carrier tape: 1,400 parts per 330mm reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:
- **43** Discrete Receptacles
- **67** Supplied on 330mm Reels

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

CONTACT:
#07, #08 or #47 CONTACT (DATA ON PAGES 256-262)

SPECIFY CONTACT FINISH:
- ◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)
- **02** 2,54µm TIN/LEAD OVER NICKEL
- ◆ **84** 2,54µm TIN OVER NICKEL (RoHS)

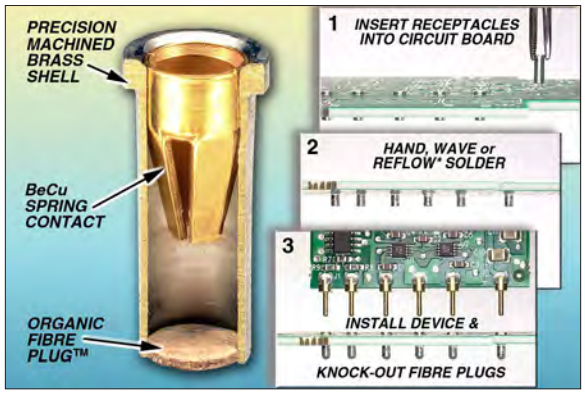
ORGANIC FIBRE PLUG® RECEPTACLES

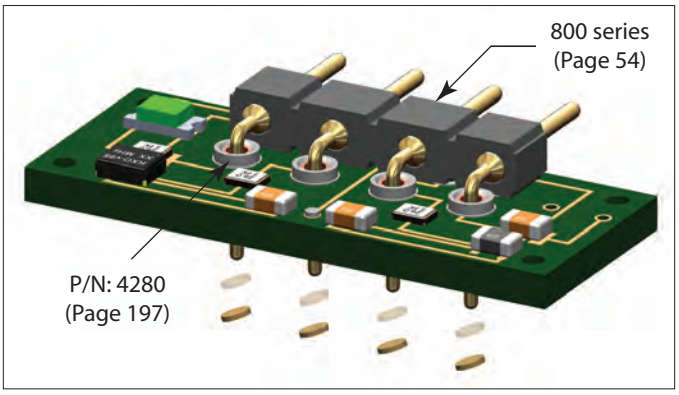
RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER

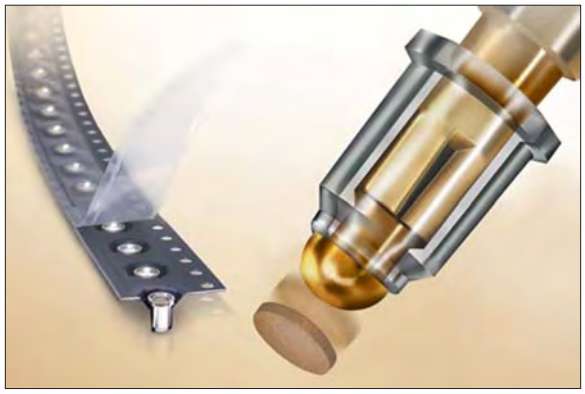
Mill-Max's organic fibre plug (OFP®) solder barrier receptacles are discrete sockets for through-hole soldering into printed circuit boards. These open bottom receptacles are fitted with organic fibre plugs to prevent solder paste or flux from contaminating the internal contact during the pick & place and soldering process. When the device/mating lead is plugged into the receptacle, the OFP® is knocked out allowing the mating lead to pass through the fingers of the internal contact and make a reliable electrical connection.

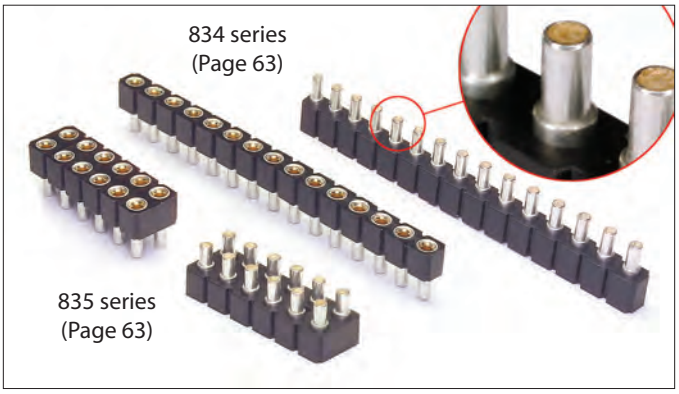
OFP® receptacles are available to accommodate pin diameters from 0,20 - 2,59 (See pages 196 & 197 for the full line of standard OFP® receptacles). Packaging options are bulk or tape & reel (Per EIA- 481), standard reel size is 330mm. The advantage of tape & reel packaging is it allows these through-hole components to be placed simultaneously with surface mount parts on pick 'n place assembly lines -- eliminating the need to hand place the receptacles in an additional manufacturing step. The OFP® barrier permits the sockets to be vacuum picked from the tape prior to placement in the circuit board.

The knock-out-bottom feature enables these sockets to be made relatively short compared to many similar receptacles. The reduced length means minimal protrusion through the PCB. The open bottom receptacle design eliminates the need to trim long device leads that would otherwise bottom out in a closed design.









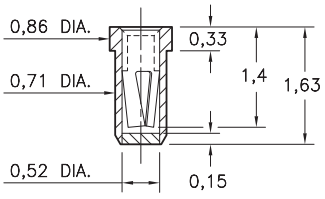
PIN RECEPTACLES

PIN RECEPTACLES
WITH ORGANIC FIBRE PLUG® SOLDER BARRIER
(SEE SPECIFIC CONTACT RANGE ON PAGES 250, 251 & 253)

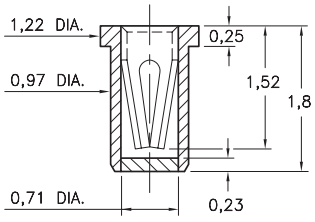
- These through-hole (tubular) receptacles are designed for hand, wave or reflow* soldering. The *ORGANIC FIBRE PLUG®* barrier prevents solder paste or flux from contaminating the spring contact.
- After soldering, the *OFP®* barrier is pushed out of the receptacle when the device is plugged in.
- All parts are available as discrete receptacles or supplied on carrier tape per EIA-481 to feed industry standard pick and place machines.

**Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked-up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.*

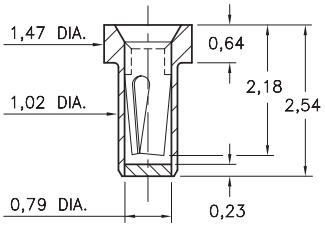
4428
4428-0-XX-XX-04-XX-10-0
Solder mount in Ø 0,81 max. PTH
#04 Contact for Ø 0,20 - 0,33 pins
Also available on 16mm wide carrier tape:
See page 194.15 for Tape & Reel details



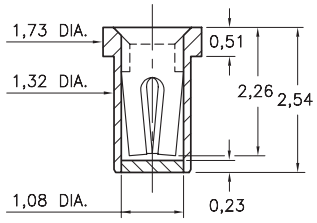
5359
5359-0-XX-XX-10-XX-10-0
Solder mount in Ø 1,09 ± 0,08 PTH
#10 Contact for Ø 0,30 - 0,43 pins
Also available on 16mm wide carrier tape:
See page 194.15 for Tape & Reel details



0577
0577-0-XX-XX-21-XX-10-0
Solder mount in Ø 1,14 ± 0,08 PTH
#21 Contact for Ø 0,38 - 0,56 pins
Also available on 12mm wide carrier tape:
See page 194.15 for Tape & Reel details



4015
4015-0-XX-XX-30-XX-10-0
Solder mount in Ø 1,45 ± 0,08 PTH
#30 Contact for Ø 0,38 - 0,64 pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:
43 Discrete Receptacles
67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:
01 5,08µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

CONTACT:
#04, #10, #21 or #30 CONTACT (DATA ON PAGES 250, 251 & 253)

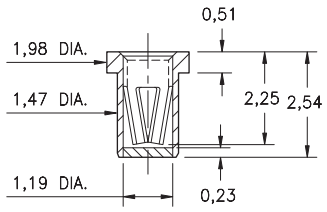
SPECIFY CONTACT FINISH:
◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)
02 2,54µm TIN/LEAD OVER NICKEL
◆ **84** 2,54µm TIN OVER NICKEL (RoHS)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

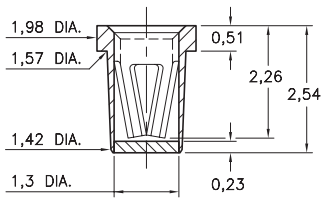
PIN RECEPTACLES

PIN RECEPTACLES
WITH ORGANIC FIBRE PLUG® SOLDER BARRIER
(SEE SPECIFIC CONTACT RANGE ON PAGES 254 - 262)

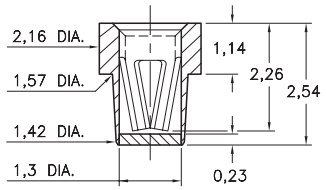
0337
0337-0-XX-XX-15-XX-10-0
Solder mount in Ø 1,68 ± 0,08 PTH
#15 Contact for Ø 0,51 - 0,81 pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



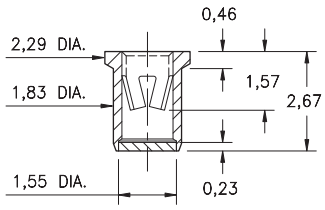
4280
4280-0-XX-XX-16-XX-10-0
Solder mount in Ø 1,7 ± 0,08 PTH
#16 Contact for Ø 0,56 - 0,86 pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



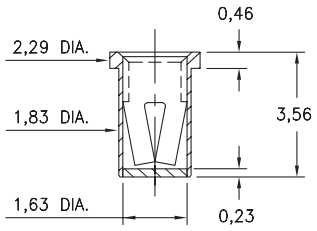
5280
5280-0-XX-XX-16-XX-40-0
Solder mount in Ø 1,7 ± 0,08 PTH
#16 Contact for Ø 0,56 - 0,86 pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



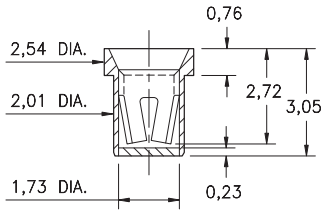
0332
0332-0-XX-XX-18-XX-10-0
Solder mount in Ø 2,01 ± 0,08 PTH
#18 Contact for Ø 0,94 - 1,09 pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



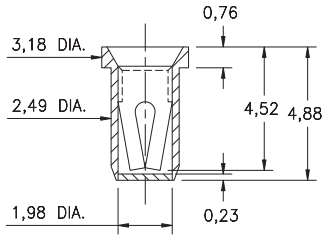
0479
0479-0-XX-XX-34-XX-10-0
Solder mount in Ø 1,96 ± 0,08 PTH
#34 Contact for Ø 0,81 - 1,17 pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



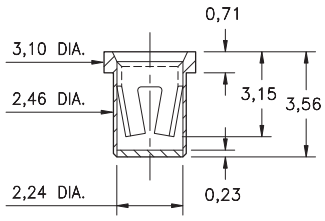
0375
0375-0-XX-XX-02-XX-10-0
Solder mount in Ø 2,21 ± 0,08 PTH
#02 Contact for Ø 1,02 - 1,27 pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



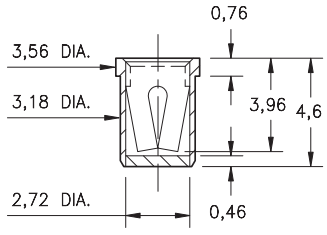
0353
0353-0-XX-XX-03-XX-10-0
Solder mount in Ø 2,69 ± 0,08 PTH
#03 Contact for Ø 1,02 - 1,52 pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



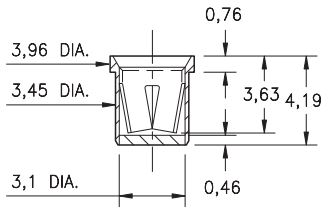
0384
0384-0-XX-XX-23-XX-10-0
Solder mount in Ø 2,67 ± 0,08 PTH
#23 Contact for Ø 1,14 - 1,65 pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



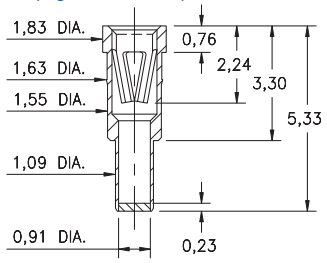
0376
0376-0-XX-XX-07-XX-10-0
Solder mount in Ø 3,38 ± 0,08 PTH
#07 Contact for Ø 1,65 - 2,08 pins
Also available on 16mm wide carrier tape:
See page 194.17 for Tape & Reel details



0321
0321-0-XX-XX-08-XX-10-0
Solder mount in Ø 3,66 ± 0,08 PTH
#08 Contact for Ø 2,13 - 2,59 pins
Also available on 16mm wide carrier tape:
See page 194.17 for Tape & Reel details



3435
3435-0-XX-XX-47-XX-04-0
Solder mount in Ø 1,17 ± 0,08 PTH
#47 Contact for Ø 0,64 - 0,94 & 0,64□ pins
Also available on 24mm wide carrier tape:
See page 194.17 for Tape & Reel details



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:
43 Discrete Receptacles
67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:
01 5,08µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

CONTACT:
#02, #07, #08, #15, #16, #18, #23, #34 or #47 CONTACT (DATA ON PAGES 254 - 262)

SPECIFY CONTACT FINISH:
◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)
02 2,54µm TIN/LEAD OVER NICKEL
◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

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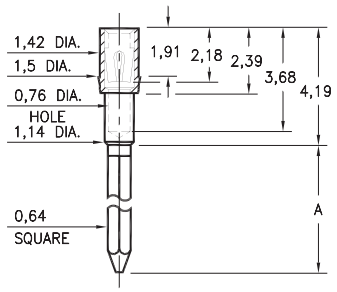
WRAPOST RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1702/1703

170X-X-15-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

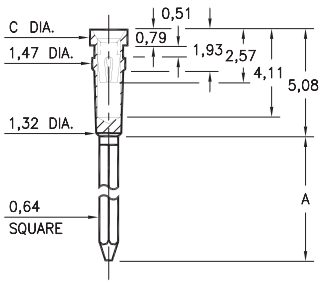


Basic Part Number	# of Wraps	Length A
1702-2	2	9,4
1703-3	3	12,95

0038⇨0040/0066⇨0068

00XX-X-17-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

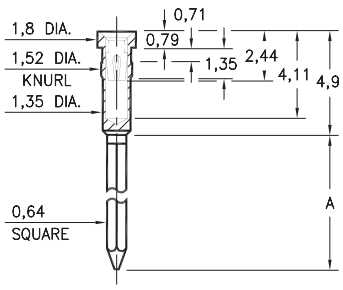


Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	6,6	
0039-2	2	9,14	1,83
0038-3	3	12,7	
0068-1	1	6,6	
0067-2	2	9,14	1,57
0066-3	3	12,7	

0086/0088/0089

008X-X-17-XX-3X-XX-02-0

Press-fit in 1,45 mounting hole

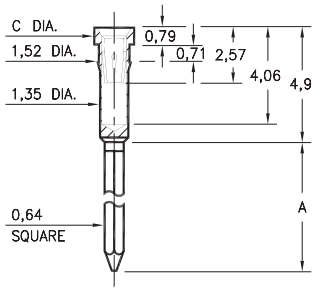


Basic Part Number	# of Wraps	Length A
0089-2	2	9,4
0088-3	3	12,95
0086-4	4	16,0

1030⇨1036

103X-X-17-XX-3X-XX-02-0

Press-fit in 1,45 mounting hole

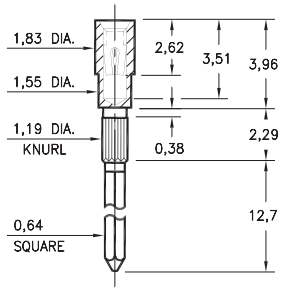


Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	6,6	
1031-2	2	9,14	1,83
1030-3	3	12,95	
1036-1	1	6,6	
1035-2	2	9,14	1,57
1034-3	3	12,95	

1045

1045-3-17-XX-30-XX-02-0

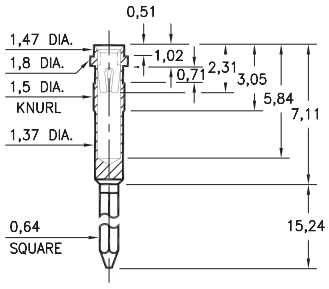
Press-fit in 1,09 mounting hole



1040

1040-3-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#30 or #32 CONTACT (DATA ON PAGE 253)
(For alternate contact choices, see groups B and C on page 248)

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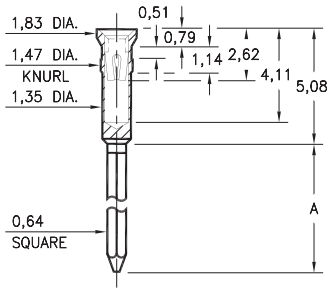
WRAPOST RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0444

0444-X-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole

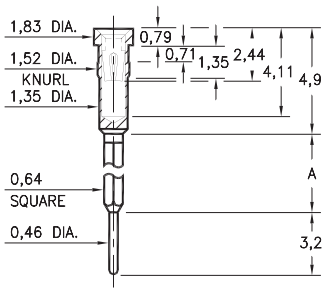


Basic Part Number	# of Wraps	Length A
0444-1	1	6,6
0444-2	2	9,4
0444-3	3	12,83

2601⇨2603

260X-0-17-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

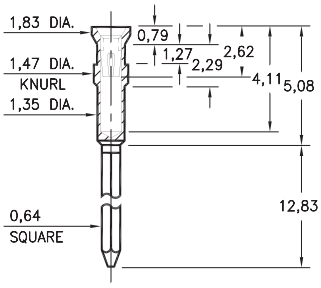


Basic Part Number	# of Wraps	Length A
2601-0	1	5,89
2602-0	2	8,89
2603-0	3	11,89

0445

0445-3-17-XX-30-XX-02-0

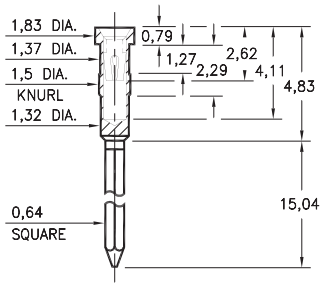
Press-fit in 1,42 mounting hole



1047

1047-3-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - 30 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- **02** 2,54µm TIN/LEAD OVER NICKEL
- **84** 2,54µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)

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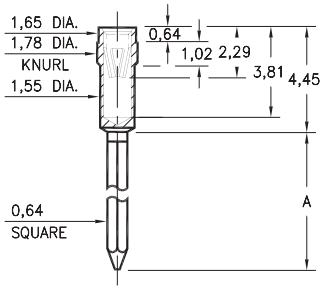
WRAPOST RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS (#06 CONTACT)
FOR 0,56 - 0,86 DIAMETER PINS (#16 CONTACT)

2297

2297-X-17-XX-16-XX-02-0

Press-fit in 1,70 mounting hole

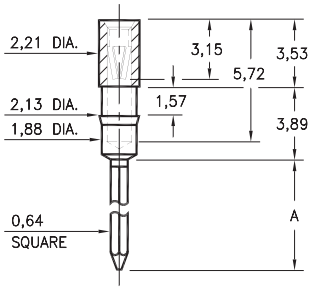


Basic Part Number	# of Wraps	Length A
2297-2	2	9,4
2297-3	3	10,92

0280

0280-X-17-XX-06-XX-02-0

Press-fit in 2,06 mounting hole

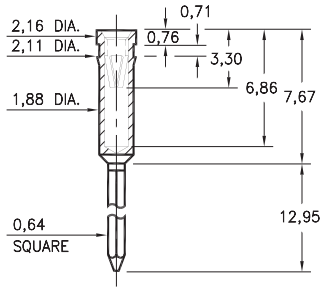


Basic Part Number	# of Wraps	Length A
0280-2	2	9,14
0280-3	3	12,95

0281

0281-3-17-XX-06-XX-02-0

Press-fit in 2,03 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#06 or #16 CONTACT (DATA ON PAGES 255 & 256)
(For alternate contact choices, see group D on page 248)

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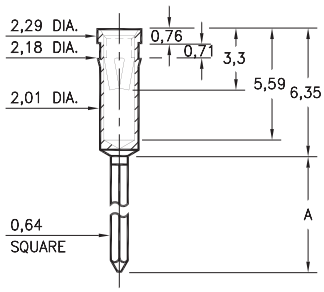
WRAPOST RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

1052/1053

105X-X-17-XX-34-XX-02-0

Press-fit in 2,11 mounting hole

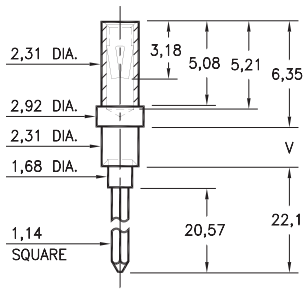


Basic Part Number	# of Wraps	Length A
1053-2	2	9,14
1052-3	3	13,08

0383

0383-X-17-XX-34-XX-02-0

Swage mount in 2,39 hole

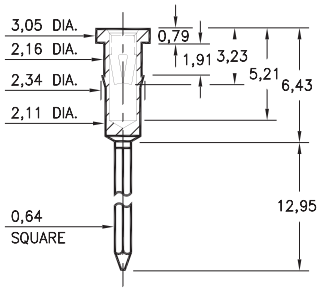


Basic Part Number	Board Thickness	Length V
0383-1	1,57	2,39
0383-2	2,39	3,18
0383-3	3,18	3,96

0382

0382-3-17-XX-34-XX-02-0

Press-fit in 2,26 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#34 CONTACT (DATA ON PAGE 258)
(For alternate contact choices, see group E on page 248)

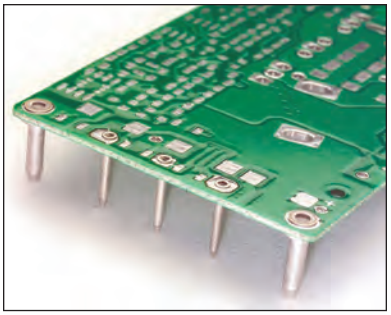
WWW.MILL-MAX.COM

MALE PCB PINS

WWW.MILL-MAX.COM

MILL-MAX PRINTED CIRCUIT PINS ARE MACHINED INDIVIDUAL PINS USED FOR VARIOUS PLUG-IN APPLICATIONS AND ARE FUNCTIONALLY THE DYNAMIC BUILDING BLOCKS WITHIN AN INTERCONNECT SYSTEM.

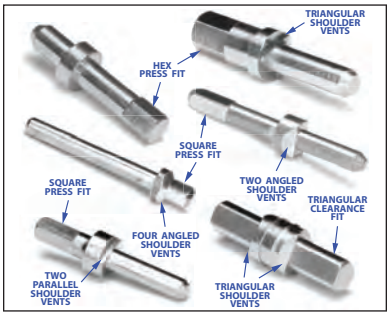
Mill-Max offers a variety of pins in a broad range of diameters as well as turret, slotted, bifurcated (forked), soldercup and wrapost style pins. They are commonly fastened to printed circuit boards or other housings by being press-fit, swaged (riveted) or soldered.



PCB pins serve not only as a conductive path for an electrical circuit, but provide strength to an assembly module as a mechanical interface. Mill-Max Mfg. Corp. has developed thousands of state-of-the-art "basic pin" designs, featuring pin barrel geometries for our customers who require outside-the-box solutions to their interconnect needs.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: 1,57/1,83/1,98/2,36/3,18/3,96/4,75/6,35 diameters
PHOSPHOR BRONZE Alloy 544: 1,57/1,83/1,98 diameters
TELLURIUM COPPER Alloy 145: 2,01/2,36/3,18/3,96 diameters

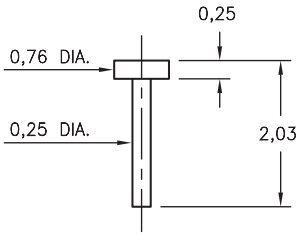


Mill-Max will gladly quote application specific products. Please complete the specification sheet on page **247** or send us your own drawings.
We assure you a fast response.

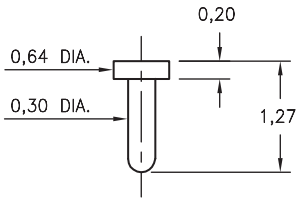
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

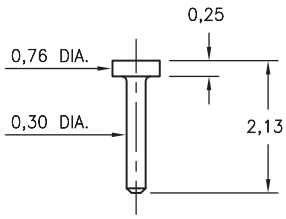
4184
4184-0-00-XX-00-00-33-0
Solder mount in 0,36 mounting hole



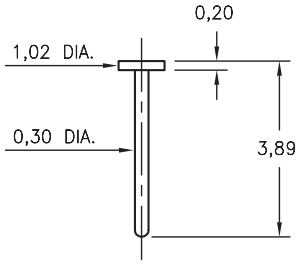
9050
9050-0-00-XX-00-00-33-0
Solder mount in 0,41 mounting hole



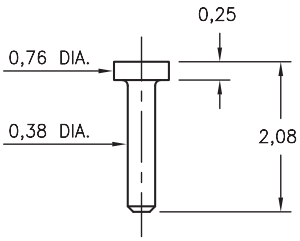
4353
4353-0-00-XX-00-00-33-0
Solder mount in 0,41 mounting hole



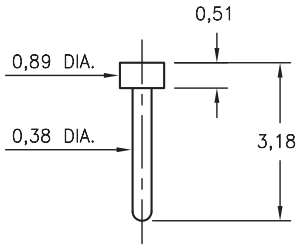
9083
9083-0-00-XX-00-00-38-0
Solder mount in 0,41 mounting hole



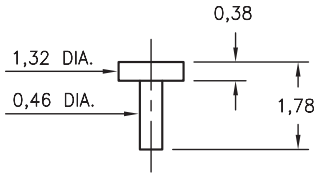
4825
4825-0-00-XX-00-00-33-0
Solder mount in 0,48 mounting hole
Also available on 16mm wide carrier tape:
3,250 parts per 330mm reel.
See page 224.1 for Tape & Reel details



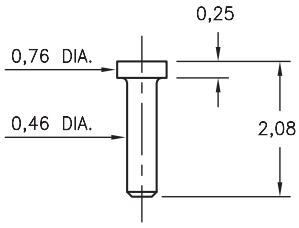
4689
4689-0-00-XX-00-00-33-0
Solder mount in 0,48 mounting hole



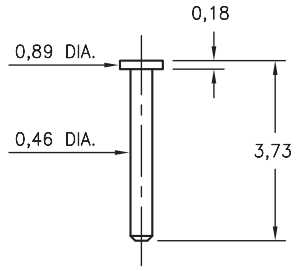
4361
4361-0-00-XX-00-00-33-0
Solder mount in 0,56 mounting hole



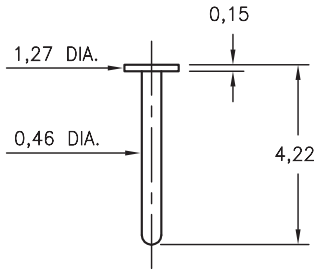
4288
4288-0-00-XX-00-00-33-0
Solder mount in 0,56 mounting hole



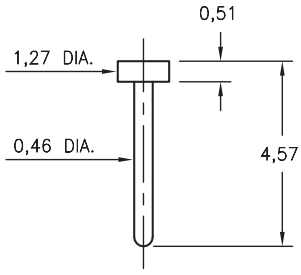
4068
4068-0-00-XX-00-00-33-0
Solder mount in 0,56 mounting hole



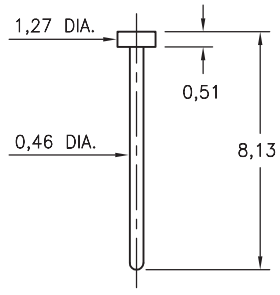
9113
9113-0-00-XX-00-00-38-0
Solder mount in 0,56 mounting hole



9137
9137-0-00-XX-00-00-38-0
Solder mount in 0,56 mounting hole



5137
5137-0-00-XX-00-00-38-0
Solder mount in 0,56 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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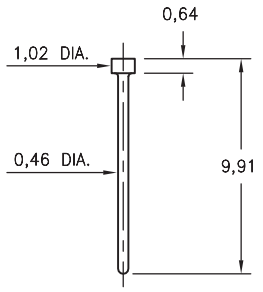
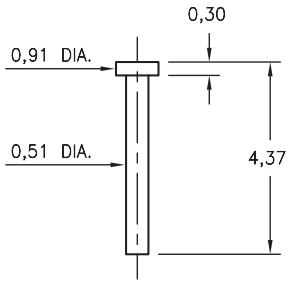
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

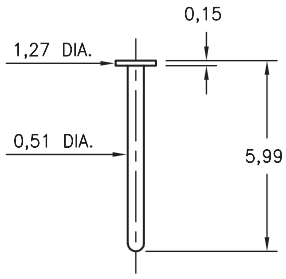
4209
4209-0-00-XX-00-00-33-0
Solder mount in 0,56 mounting hole



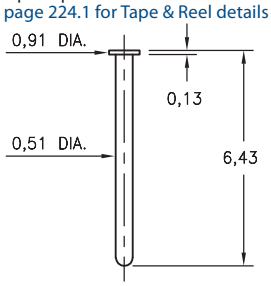
5063
5063-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole



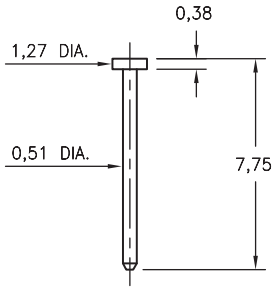
4965
4965-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole



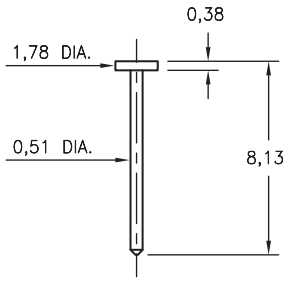
6547
6547-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole
Also available on 24mm wide carrier tape:
1,080 parts per 330mm reel.
See page 224.1 for Tape & Reel details



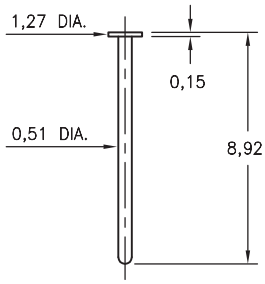
4071
4071-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole



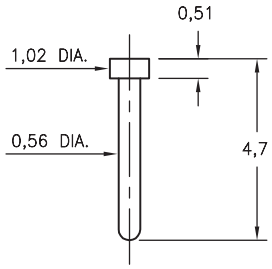
8808
8808-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole



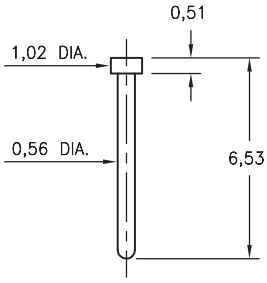
4964
4964-0-00-XX-00-00-33-0
Solder mount in 0,61 mounting hole



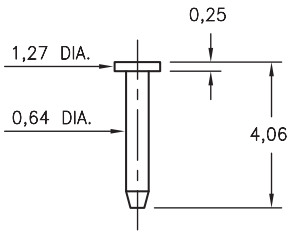
9185
9185-0-00-XX-00-00-33-0
Solder mount in 0,67 mounting hole



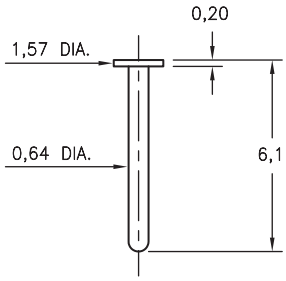
8257
8257-0-00-XX-00-00-33-0
Solder mount in 0,66 mounting hole



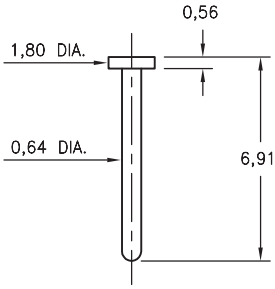
5035
5035-0-00-XX-00-00-33-0
Solder mount in 0,74 mounting hole



5240
5240-0-00-XX-00-00-33-0
Solder mount in 0,74 mounting hole



2650
2650-0-00-XX-00-00-33-0
Solder mount in 0,74 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: **Millimeters**

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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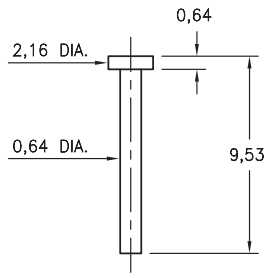
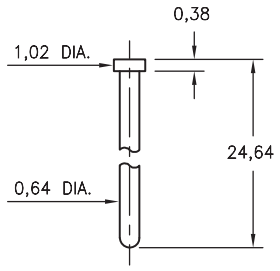
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

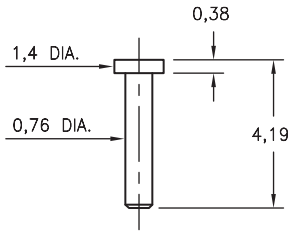
5062
5062-0-00-XX-00-00-33-0
Solder mount in 0,74 mounting hole



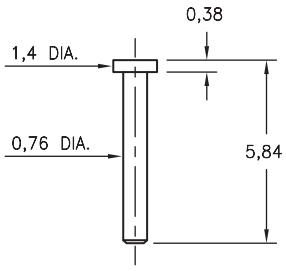
8451
8451-0-00-XX-00-00-33-0
Solder mount in 0,74 mounting hole



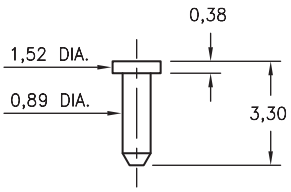
6477
6477-0-00-XX-00-00-38-0
Solder mount in 0,86 mounting hole



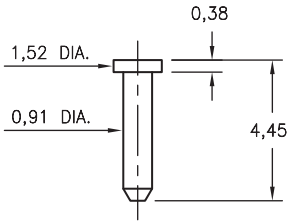
4477
4477-0-00-XX-00-00-33-0
Solder mount in 0,86 mounting hole



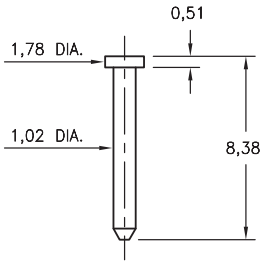
4268
4268-0-00-XX-00-00-33-0
Solder mount in 0,99 mounting hole



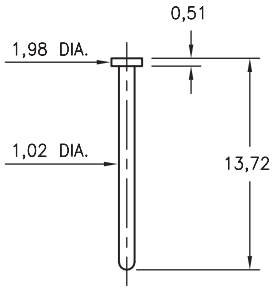
9086
9086-0-00-XX-00-00-33-0
Solder mount in 1,02 mounting hole



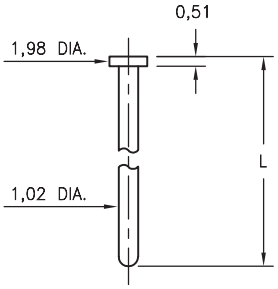
8330
8330-0-00-XX-00-00-38-0
Solder mount in 1,12 mounting hole



9228
9228-0-00-XX-00-00-38-0
Solder mount in 1,12 mounting hole

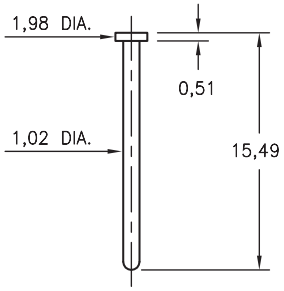


6095
6095-X-00-XX-00-00-38-0
Solder mount in 1,12 mounting hole



Basic Part Number	Length L
6095-0	14,73
6095-1	12,07

6092
6092-0-00-XX-00-00-33-0
Solder mount in 1,12 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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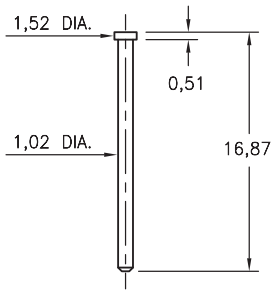
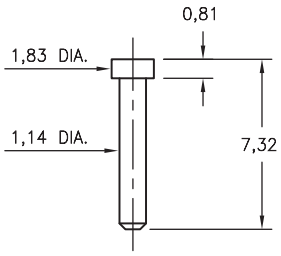
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

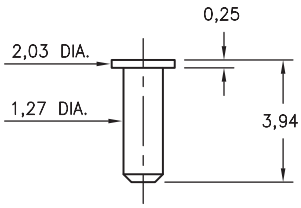
1179
1179-0-00-XX-00-00-33-0
Solder mount in 1,12 mounting hole



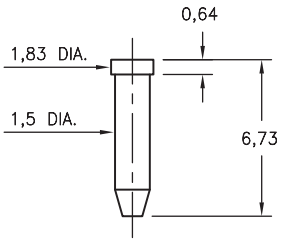
9872
9872-0-00-XX-00-00-33-0
Solder mount in 1,24 mounting hole



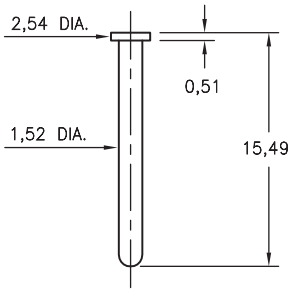
2381
2381-0-00-XX-00-00-33-0
Solder mount in 1,37 mounting hole
Also available on 16mm wide carrier tape: 1,800 parts per 330mm reel.
See page 224.1 for Tape & Reel details



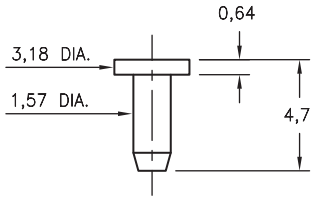
9265
9265-0-00-XX-00-00-38-0
Solder mount in 1,6 mounting hole
Also available on 16mm wide carrier tape: 1,170 parts per 330mm reel.
See page 224.1 for Tape & Reel details



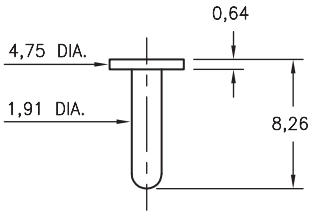
6142
6142-0-00-XX-00-00-33-0
Solder mount in 1,63 mounting hole



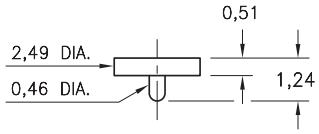
9022
9022-0-00-XX-00-00-33-0
Solder mount in 1,68 mounting hole
Also available on 24mm wide carrier tape: 1,500 parts per 330mm reel.
See page 224.1 for Tape & Reel details



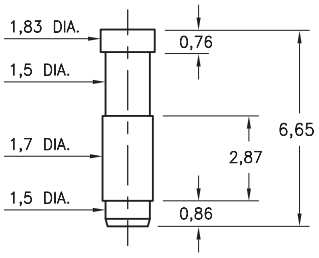
8086
8086-0-00-XX-00-00-33-0
Solder mount in 2,01 mounting hole



4541
4541-0-00-XX-00-00-03-0
Solder mount in 0,56 mounting hole



1980
1980-0-00-00-XX-00-03-0
Surface mount, Target Connector
Also available on carrier tape: 1,450 parts per 330mm reel. Order as: 319-10-1XX-40-080001



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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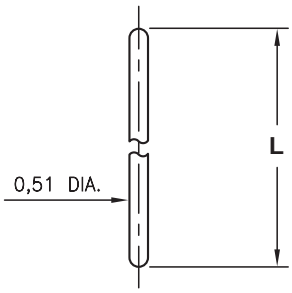
MALE PCB PINS

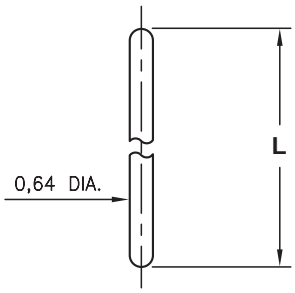
STRAIGHT AND RIGHT ANGLE PINS

3320
3320-X-00-XX-00-00-03-0



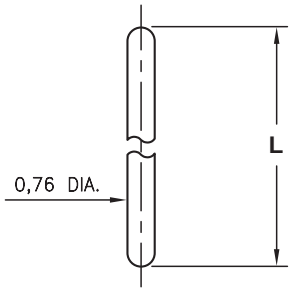
Basic Part Number	Length L
3320-0	6,35
3320-1	12,7

3325/6527
XXXX-X-00-XX-00-00-03-0



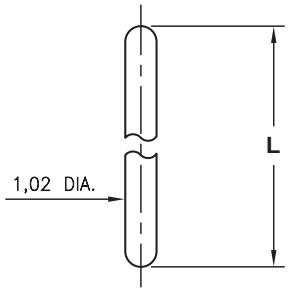
Basic Part Number	Length L
3325-0	6,35
3325-1	12,7
3325-2	19,05
6527-0	10,67

3330
3330-X-00-XX-00-00-03-0



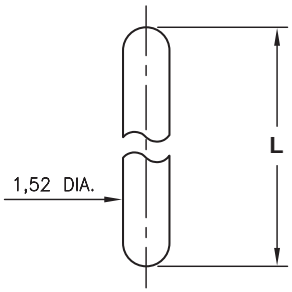
Basic Part Number	Length L
3330-0	6,35
3330-1	12,7
3330-2	19,05

3340
3340-X-00-XX-00-00-03-0



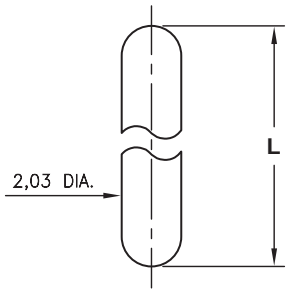
Basic Part Number	Length L
3340-0	6,35
3340-1	12,7
3340-2	19,05

3560
3560-X-00-XX-00-00-03-0



Basic Part Number	Length L
3560-0	6,35
3560-1	12,7
3560-2	19,05

3580
3580-X-00-XX-00-00-03-0



Basic Part Number	Length L
3580-0	6,35
3580-1	12,7
3580-2	19,05

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

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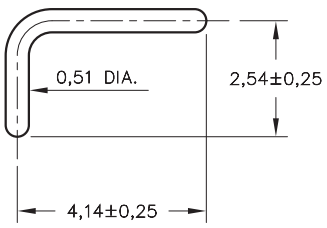
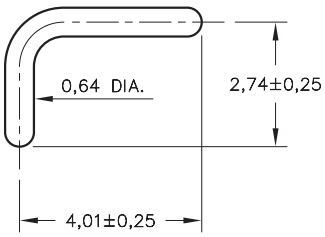
MALE PCB PINS

RIGHT ANGLE PINS

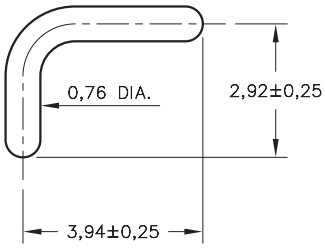
3720
3720-0-14-XX-00-00-03-0
Right Angle Bent Pin



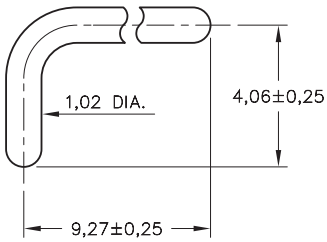
3725
3725-0-14-XX-00-00-03-0
Right Angle Bent Pin



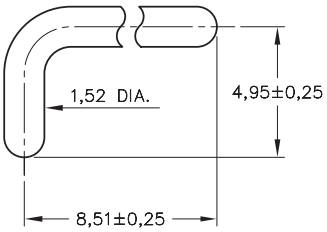
3730
3730-0-14-XX-00-00-03-0
Right Angle Bent Pin



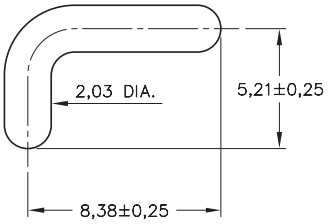
3740
3740-0-14-XX-00-00-03-0
Right Angle Bent Pin



3760
3760-0-14-XX-00-00-03-0
Right Angle Bent Pin



3780
3780-0-14-XX-00-00-03-0
Right Angle Bent Pin



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: 37XX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)

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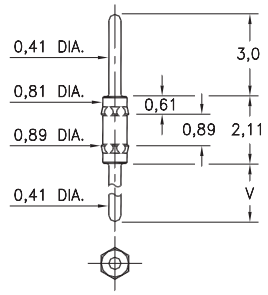
MALE PCB PINS

PRINTED CIRCUIT PINS

4006

4006-X-00-XX-00-00-03-0

Hex press-fit in 0,86 mounting hole

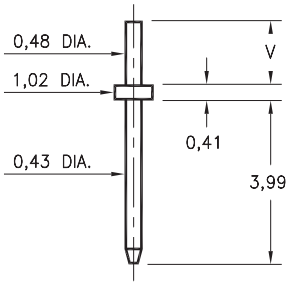


Basic Part Number	Length V
4006-0	3,0
4006-1	4,78
4006-2	7,32

3121

3121-X-00-XX-00-00-08-0

Solder mount in 0,58 mounting hole
Material is annealed.

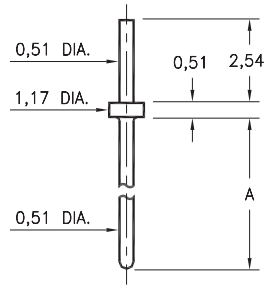


Basic Part Number	Substrate Thickness	Length V
3121-1	0,64	1,55
3121-2	1,02	1,91

3128

3128-X-00-XX-00-00-08-0

Solder mount in 0,61 min. mounting hole

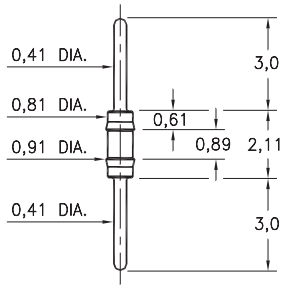


Basic Part Number	Length A
3128-1	6,35
3128-2	10,8
3128-3	13,34
3128-4	14,22
3128-5	23,62

3006

3006-0-00-XX-00-00-03-0

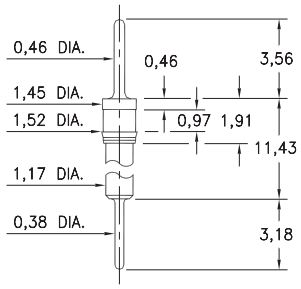
Press-fit in 0,86 mounting hole



8885

8885-0-00-XX-00-00-03-0

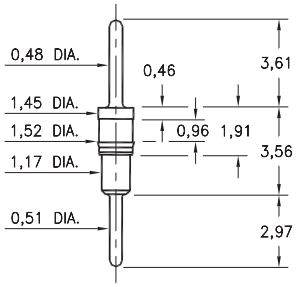
Press-fit in 1,45 mounting hole



6218

6218-0-00-XX-00-00-03-0

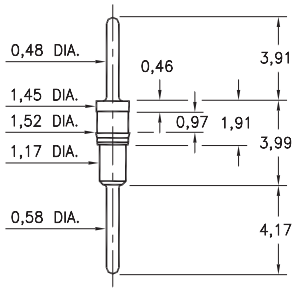
Press-fit in 1,45 mounting hole



5012

5012-0-00-XX-00-00-03-0

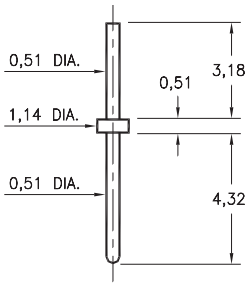
Press-fit in 1,45 mounting hole



9081

9081-0-00-XX-00-00-08-0

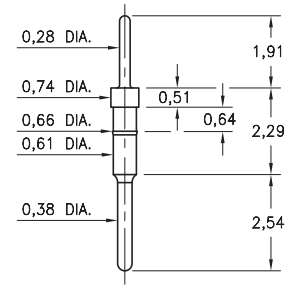
Solder mount in 0,61 mounting hole



3039

3039-0-00-15-00-00-03-0

Press-fit in .025 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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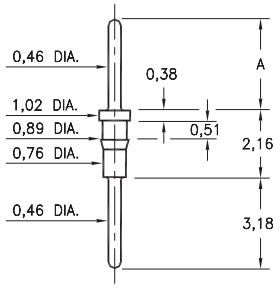
MALE PCB PINS

PRINTED CIRCUIT PINS

8685/9036

XXXX-0-00-XX-00-00-03-0

Press-fit in 0,84 mounting hole
Pin material is Phosphor Bronze 544 (B2)

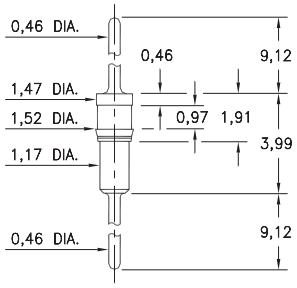


Basic Part Number	Length A
8685-0	3,18
9036-0	4,45

9051

9051-0-00-XX-00-00-03-0

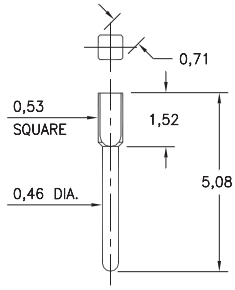
Press-fit in 1,45 mounting hole



8969

8969-0-05-XX-00-00-03-0

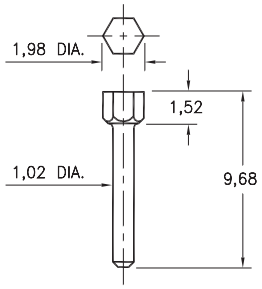
Square press-fit in 0,58 plated through-hole
(Use .7mm drill prior to plating)



8979

8979-0-00-XX-00-00-03-0

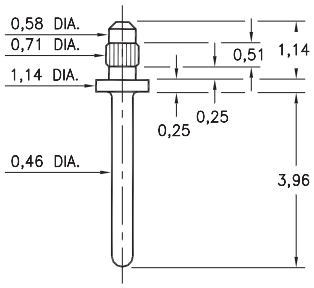
Hex press-fit in 1,88 plated through-hole



9159

9159-0-00-XX-00-00-03-0

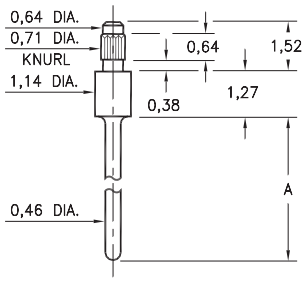
Press-fit in 0,66 mounting hole



3155/5155

X155-0-00-XX-00-00-03-0

Press-fit in 0,66 mounting hole
Pin material is Phosphor Bronze 544 (B2)

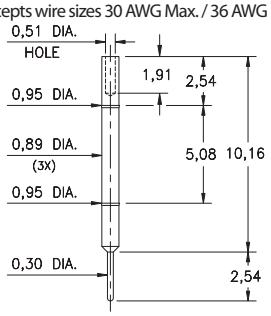


Basic Part Number	Length A
3155-0	4,57
5155-0	3,30

4194

4194-0-00-XX-00-00-08-0

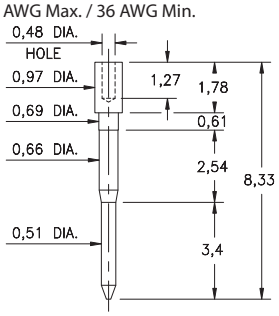
Wire crimp termination & press-fit in 0,91 hole
Accepts wire sizes 30 AWG Max. / 36 AWG Min.



5556

5556-0-00-XX-00-00-38-0

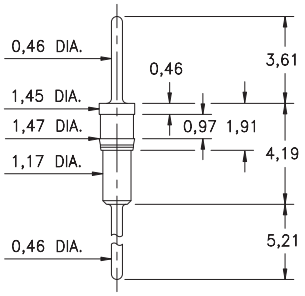
Wire crimp termination. Accepts wire sizes
30 AWG Max. / 36 AWG Min.



3790

3790-0-00-XX-00-00-03-0

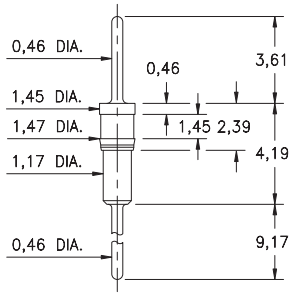
Press-fit in 1,45 mounting hole



3796

3796-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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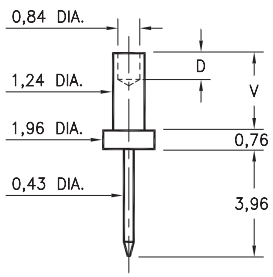
MALE PCB PINS

PRINTED CIRCUIT PINS

3116

3116-X-00-XX-00-00-08-0

Swage mount in 1,32 hole

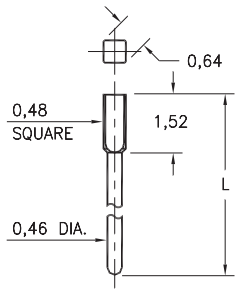


Basic Part Number	Board Thickness	Length V	Depth D
3116-1	0,79	1,30	0,89
3116-2	1,57	2,08	1,57
3116-3	2,39	2,87	1,57
3116-4	3,18	3,68	1,57

X435

X435-X-05-XX-00-00-03-0

Square press-fit in 0,56 plated through-hole

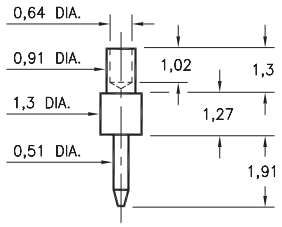


Basic Part Number	Length L
5435-0	7,70
5435-1	5,08
5435-2	10,49
6435-0	7,11

3135

3135-1-00-XX-00-00-08-0

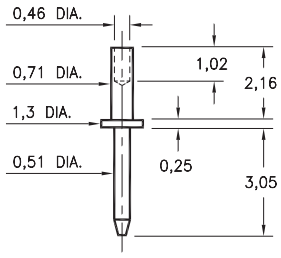
Swage mount in 1,02 hole
For 0,79 thick board



3210

3210-2-00-XX-00-00-08-0

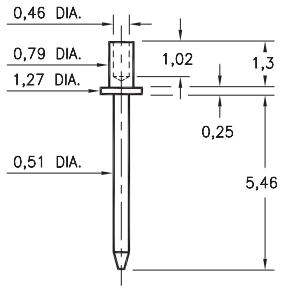
Swage mount in 0,79 hole
For 1,57 thick board



3129

3129-1-00-XX-00-00-08-0

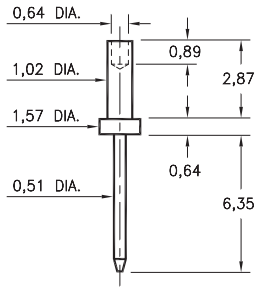
Swage mount in 0,89 hole
For 0,79 thick board



3147

3147-3-00-XX-00-00-08-0

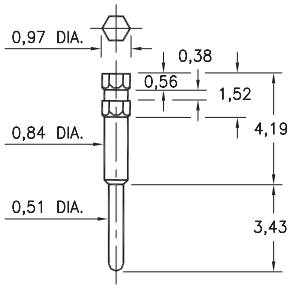
Swage mount in 1,09 hole
For 2,39 thick board



4366

4366-0-00-XX-00-00-03-0

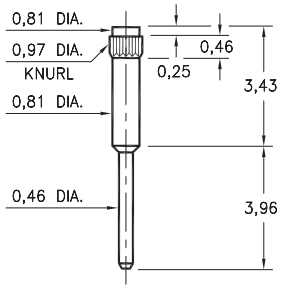
Hex press-fit in 0,86 plated through-hole



1267

1267-0-00-XX-00-00-03-0

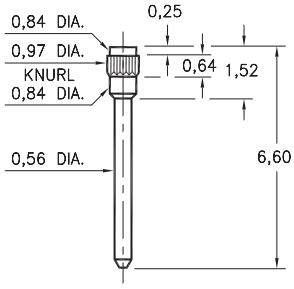
Press-fit in 0,89 mounting hole



7827

7827-0-00-XX-00-00-03-0

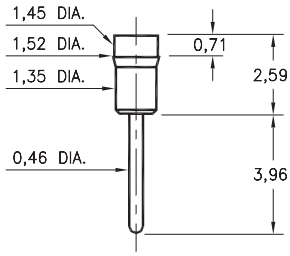
Press-fit in 0,89 mounting hole



1130

1130-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole
Pin material is Phosphor Bronze 544 (B2)



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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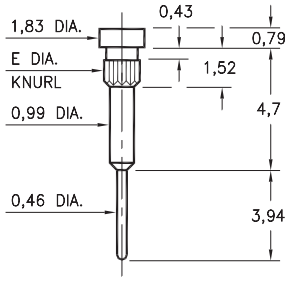
MALE PCB PINS

PRINTED CIRCUIT PINS

1067

1067-X-00-XX-00-00-03-0

Press-fit in 1,07/1,40 mounting hole

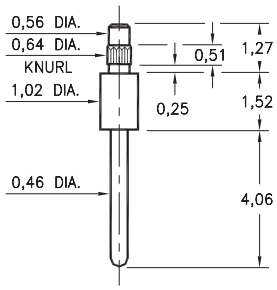


Basic Part Number	Knurl Dia. E	Mounting Hole
1067-1	1,47	1,40
1067-2	1,14	1,07

3158

3158-0-00-XX-00-00-03-0

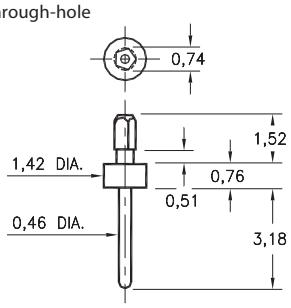
Press-fit in 0,58 mounting hole



9000

9000-0-00-XX-00-00-03-0

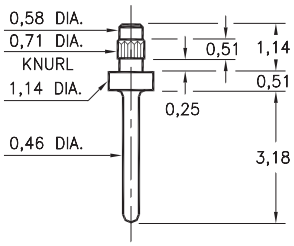
Pentagonal press-fit in 0,64 plated through-hole



3157

3157-0-00-XX-00-00-03-0

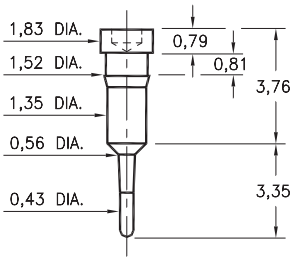
Press-fit in 0,66 mounting hole



0915

0915-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

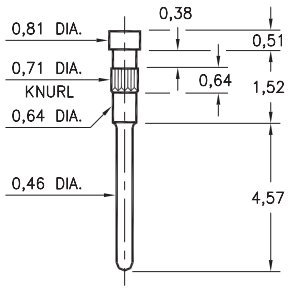


3154

3154-0-00-XX-00-00-03-0

Press-fit in 0,66 mounting hole

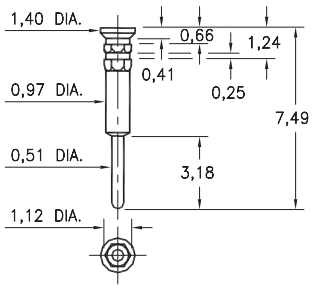
Pin material is Phosphor Bronze 544 (B2)



0542

0542-0-00-XX-00-00-03-0

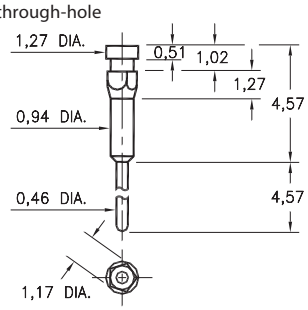
Hex press-fit in 0,99 plated through-hole



0522

0522-0-00-XX-00-00-03-0

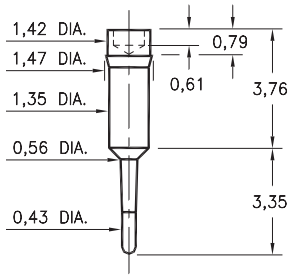
Pentagonal press-fit in 1,07 plated through-hole



0952

0952-0-00-XX-00-00-03-0

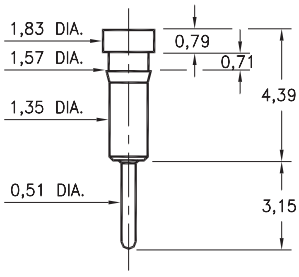
Press-fit in 1,42 mounting hole



0257

0257-0-00-XX-00-00-03-0

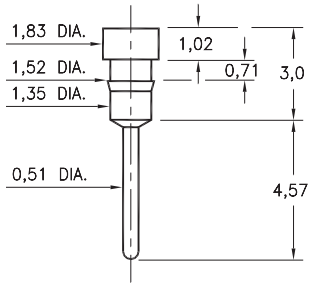
Press-fit in 1,50 mounting hole



8940

8940-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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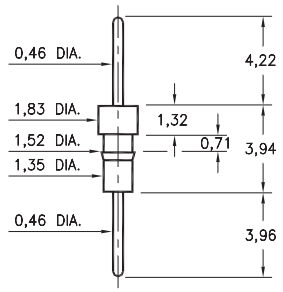
MALE PCB PINS

PRINTED CIRCUIT PINS

0504/0505

050X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

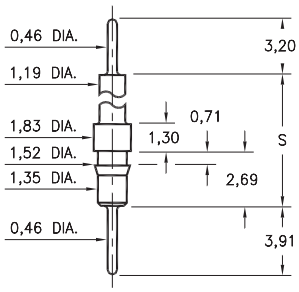


Basic Part Number	Pin Material
0504-0	Phosphor Bronze 544
0505-0	Brass 360

5510/5511

551X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

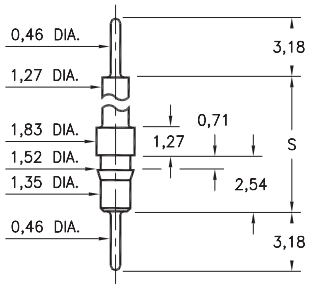


Basic Part Number	Standoff Height S
5510-0	8,41
5511-0	15,39

4259

4259-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

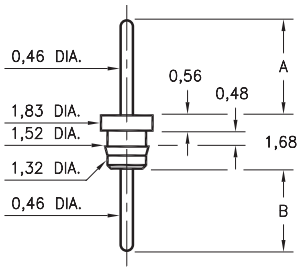


Basic Part Number	Standoff Height S
4259-1	5,33
4259-2	8,51
4259-3	14,86
4259-4	21,21

X516

X516-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

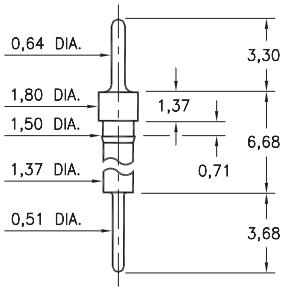


Basic Part Number	Pin Length A	Pin Length B
3516-0	3,18	2,74
4516-0	3,43	3,0

8859

8859-0-00-XX-00-00-03-0

Press-fit in 1,42 mounting hole

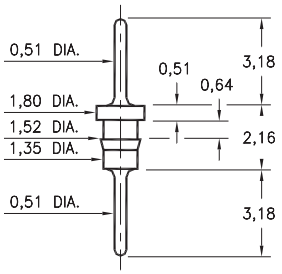


6585

6585-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

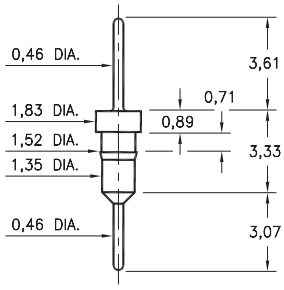
Pin material is Phosphor Bronze 544 (B2)



3404

3404-0-00-XX-00-00-03-0

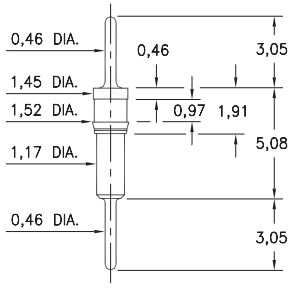
Press-fit in 1,45 mounting hole



9218

9218-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
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- **21** 0,51µm GOLD OVER NICKEL (RoHS)
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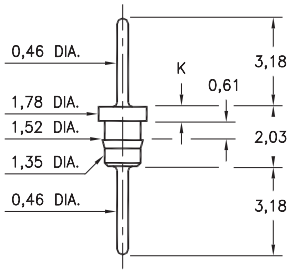
MALE PCB PINS

PRINTED CIRCUIT PINS

1752/6458

XXXX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

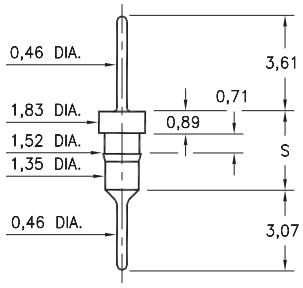


Basic Part Number	Length K
1752-0	0,51
6458-0	0,89

3413/8404

X4XX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

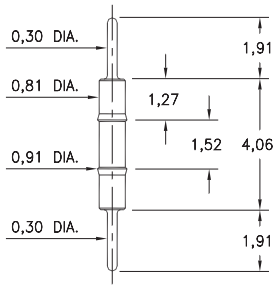


Basic Part Number	Length S
3413-0	3,0
8404-0	3,33

9075

9075-0-00-XX-00-00-03-0

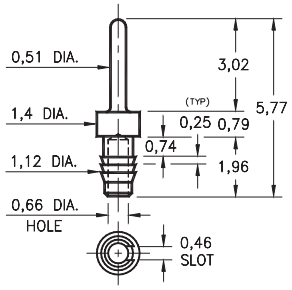
Press-fit in 0,86 mounting hole



2617

2617-0-01-XX-00-00-03-0

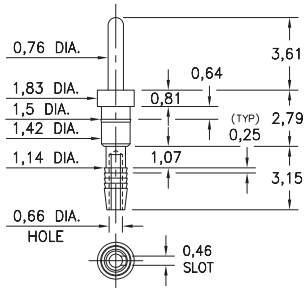
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



5607

5607-0-01-XX-00-00-03-0

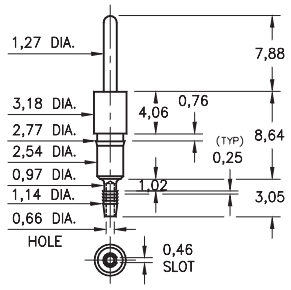
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



8995

8995-0-01-XX-00-00-03-0

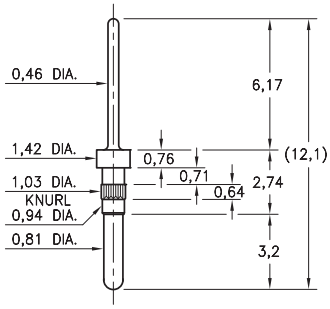
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



5065

5065-0-00-26-00-00-03-0

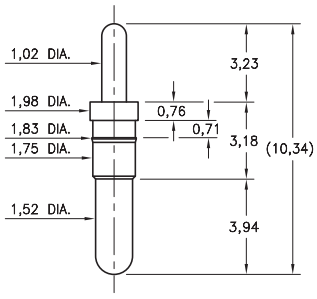
Press-fit in 0,94 mounting hole



3501

3501-0-00-15-00-00-03-0

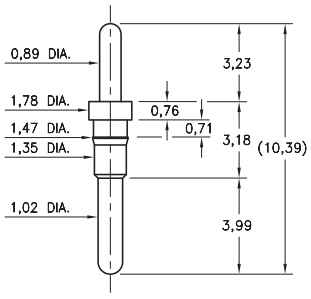
Press-fit in 1,78 mounting hole



3502

3502-0-00-15-00-00-03-0

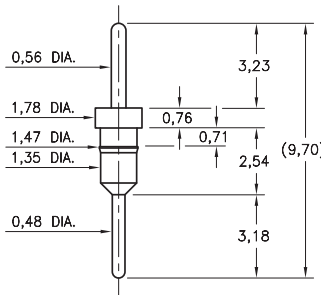
Press-fit in 1,42 mounting hole



3503

3503-0-00-15-00-00-03-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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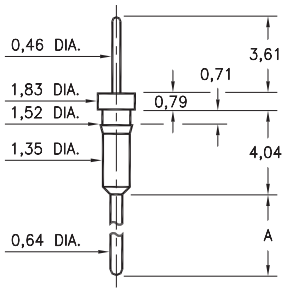
MALE PCB PINS

PRINTED CIRCUIT PINS

3409

3409-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



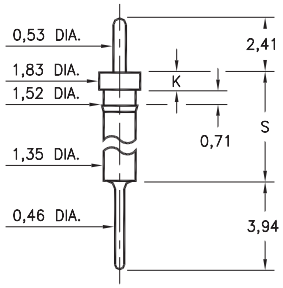
Basic Part Number	Pin Length A
3409-1	5,33
3409-2	10,67

0315

0315-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

Pin material is Phosphor Bronze 544 (B2)

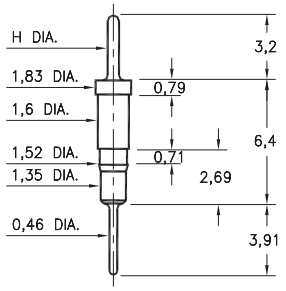


Basic Part Number	Head Height K	Standoff Height S
0315-0	0,76	4,83
0315-1	1,02	10,92

5503/5509

550X-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

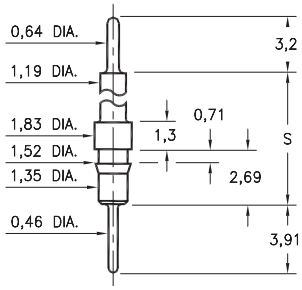


Basic Part Number	Pin Diameter H
5503-0	0,64
5509-0	0,46

5504/5505

550X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

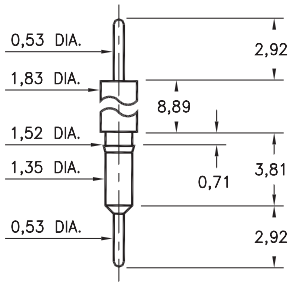


Basic Part Number	Standoff Height S
5504-0	8,41
5505-0	15,39

3406

3406-0-00-XX-00-00-03-0

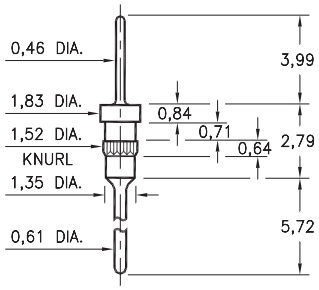
Press-fit in 1,45 mounting hole



5011

5011-0-00-XX-00-00-03-0

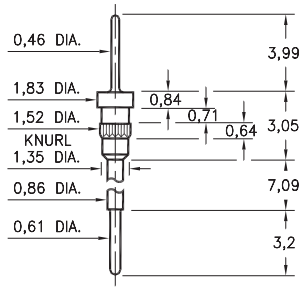
Press-fit in 1,45 mounting hole



5113

5113-0-00-XX-00-00-03-0

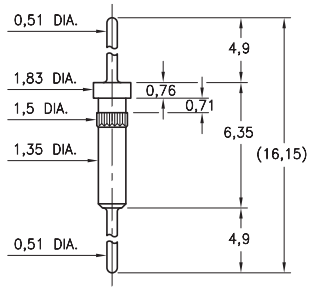
Press-fit in 1,45 mounting hole



3900

3900-0-00-15-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
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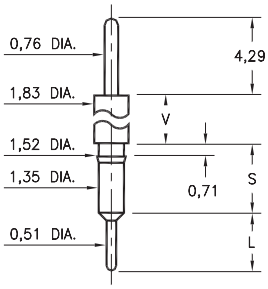
MALE PCB PINS

PRINTED CIRCUIT PINS

3400⇨3402/3405/3410

34XX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

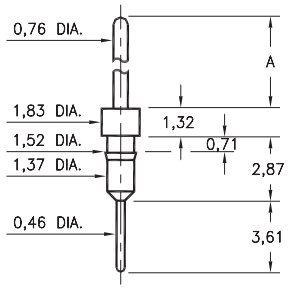


Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	1,32	3,51	2,92
3401-0	2,54	3,45	2,92
3405-0	4,29	3,71	2,92
3400-0	11,71	3,68	2,92
3410-0	23,72	3,45	3,15

3411

3411-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

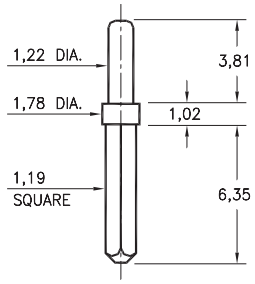


Basic Part Number	Pin Length A
3411-0	10,59
3411-1	5,51

0600

0600-0-05-XX-00-00-01-0

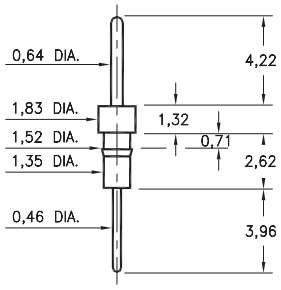
Solder mount 1,32 mounting hole



0290

0290-0-00-XX-00-00-03-0

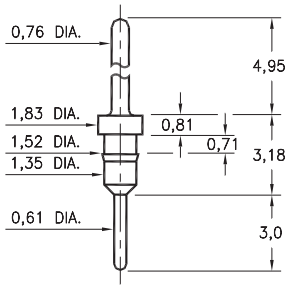
Press-fit in 1,45 mounting hole



7007

7007-0-00-XX-00-00-03-0

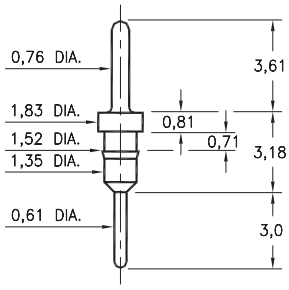
Press-fit in 1,45 mounting hole



5016

5016-0-00-XX-00-00-03-0

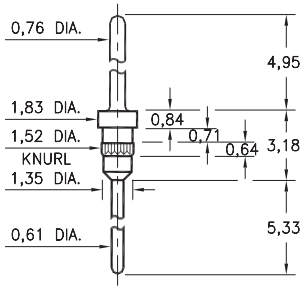
Press-fit in 1,45 mounting hole



5005

5005-0-00-XX-00-00-03-0

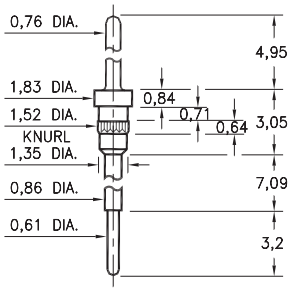
Press-fit in 1,45 mounting hole



5107

5107-0-00-XX-00-00-03-0

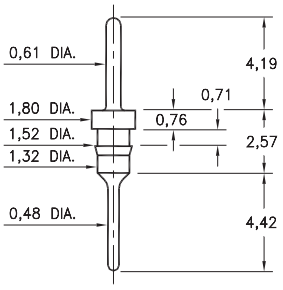
Press-fit in 1,45 mounting hole



8919

8919-0-00-XX-00-00-03-0

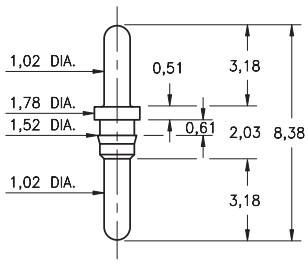
Press-fit in 1,45 mounting hole



3077

3077-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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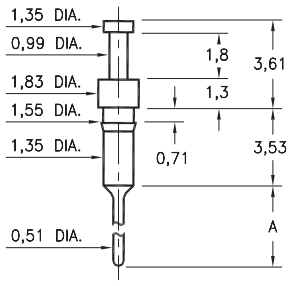
MALE PCB PINS

PRINTED CIRCUIT PINS

3408

3408-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

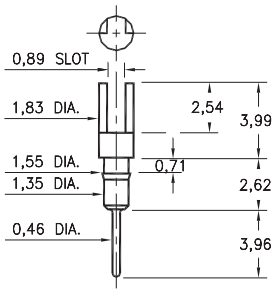


Basic Part Number	Pin Length A
3408-1	3,07
3408-2	4,60

0270/0282

02XX-0-01-XX-00-00-03-0

Press-fit in 1,45 mounting hole

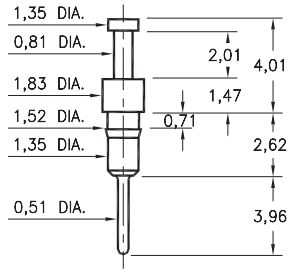


Basic Part Number	Pin Material
0270-0	Phosphor Bronze 544
0282-0	Brass 360

0700

0700-0-00-XX-00-00-03-0

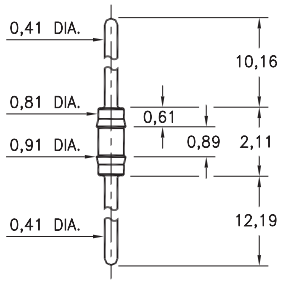
Press-fit in 1,45 mounting hole



8006

8006-0-00-XX-00-00-03-0

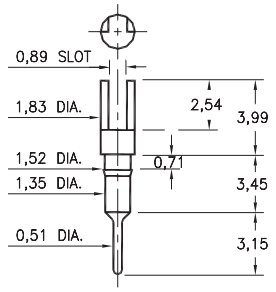
Press-fit in 0,86 mounting hole



0265

0265-0-01-XX-00-00-03-0

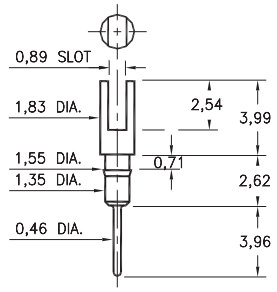
Press-fit in 1,45 mounting hole



0272

0272-0-01-XX-00-00-03-0

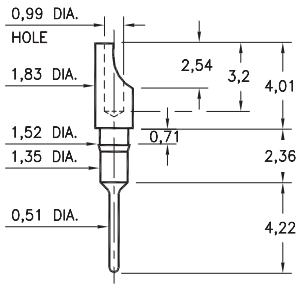
Press-fit in 1,45 mounting hole



8000

8000-0-01-XX-00-00-03-0

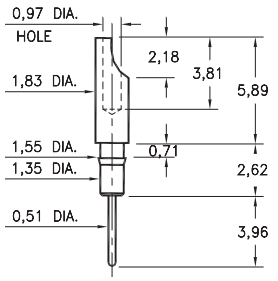
Press-fit in 1,45 mounting hole
For wire sizes up to 22 AWG



0275

0275-0-01-XX-00-00-03-0

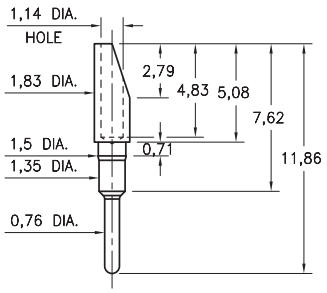
Press-fit in 1,45 mounting hole
Pin material is Phosphor Bronze 544 (B2)
For wire sizes up to 22 AWG



1107

1107-0-01-15-00-00-03-0

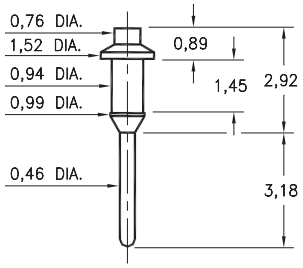
Press-fit in 1,45 mounting hole
For wire sizes up to 20 AWG



9976

9976-0-00-XX-00-00-03-0

Press-fit in 0,97 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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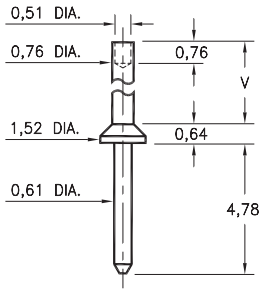
MALE PCB PINS

PRINTED CIRCUIT PINS

3117

3117-X-00-XX-00-00-08-0

Swage mount in 0,89 hole

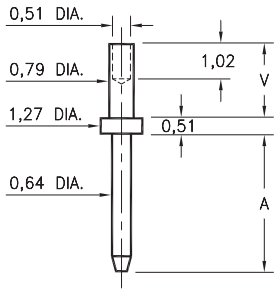


Basic Part Number	Board Thickness	Length V
3117-1	0,79	1,19
3117-2	1,57	1,98
3117-3	2,39	2,79
3117-4	3,18	3,58

3114/3115

311X-X-00-XX-00-00-08-0

Swage mount in 0,89 mounting hole

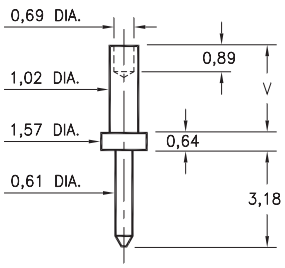


Basic Part Number	Board Thick-ness	Length A	Length V
3114-1	0,79	3,81	1,30
3114-2	1,57	3,81	2,08
3115-1	0,79	7,62	1,30
3115-2	1,57	7,62	2,08

3112

3112-X-00-XX-00-00-08-0

Swage mount in 1,09 hole

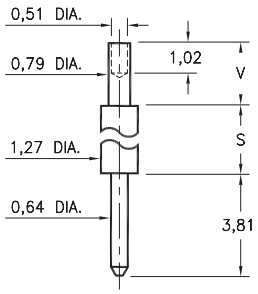


Basic Part Number	Board Thickness	Length V
3112-1	0,79	1,30
3112-2	1,57	2,08
3112-3	2,39	2,87

3118/3119

311X-X-00-XX-00-00-08-0

Swage mount in 0,89 hole

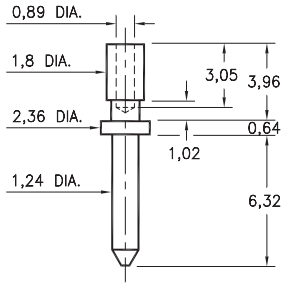


Basic Part Number	Board Thick-ness	Length S	Length V
3118-1	0,79	4,32	1,30
3118-2	1,57	4,32	2,08
3119-1	0,79	10,67	1,30
3119-2	1,57	10,67	2,08

3139

3139-0-00-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.

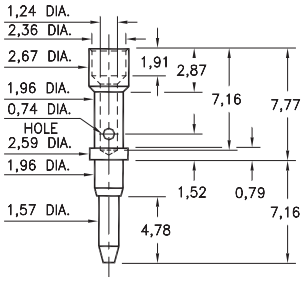


3602

3602-0-07-XX-00-00-08-0

Annealed

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.

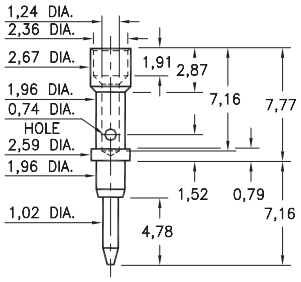


3603

3603-0-07-XX-00-00-08-0

Annealed

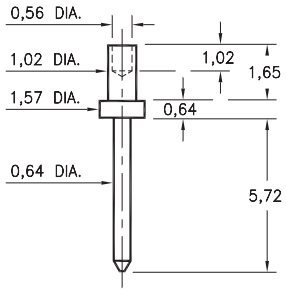
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



3131

3131-1-00-XX-00-00-08-0

Swage mount in 1,09 hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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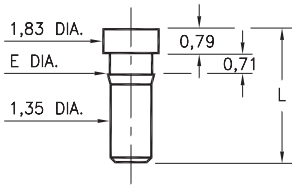
MALE PCB PINS

PRINTED CIRCUIT PINS

0259/0286/1941

XXXX-0-00-XX-00-00-03-0

Press-fit in 1,45/1,5 mounting hole



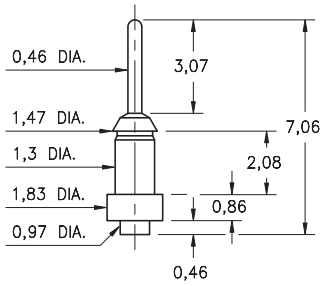
Basic Part Number	Length L	Barb Dia. E	Mounting Hole
0259-0	4,39	1,57	1,5
0286-0	2,92	1,52	1,45
*1941-0	4,29	1,47	1,42

* Flat face Target contact

2956-0

2956-0-00-XX-00-00-03-0

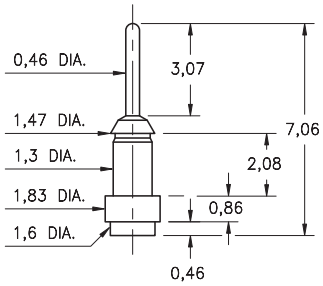
Surface mount



2956-1

2956-1-00-XX-00-00-03-0

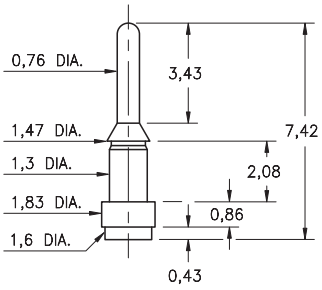
Surface mount



4956-1

4956-1-00-XX-00-00-33-0

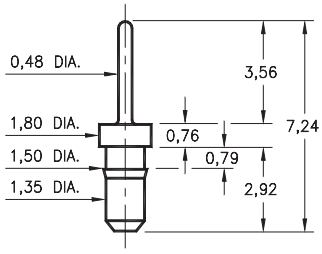
Surface mount



8876

8876-0-00-XX-00-00-03-0

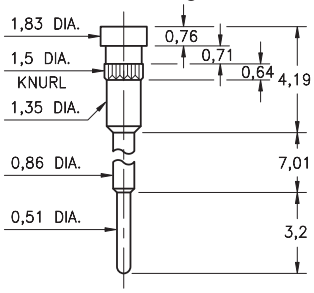
Press-fit in 1,45 mounting hole



1938

1938-0-00-XX-00-00-03-0

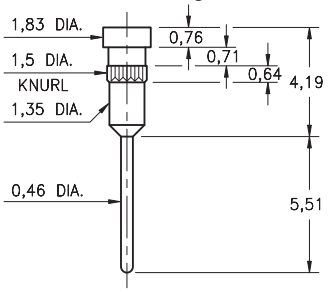
Flat face Target contact, solder Tail
Press-fit in 1,45 mounting hole



1940

1940-0-00-XX-00-00-03-0

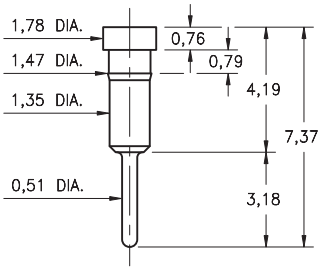
Flat face Target contact, solder Tail
Press-fit in 1,45 mounting hole



1942

1942-0-00-XX-00-00-03-0

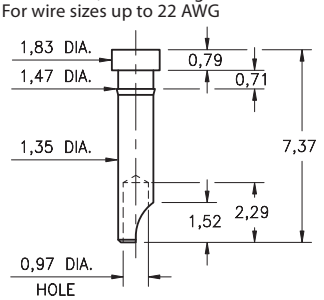
Flat face Target contact, solder Tail
Press-fit in 1,42 mounting hole



3024

3024-0-01-XX-00-00-03-0

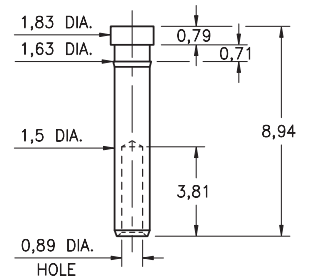
Flat face Target contact, solder cup
Press-fit in 1,42 mounting hole
For wire sizes up to 22 AWG



3000

3000-0-00-XX-00-00-03-0

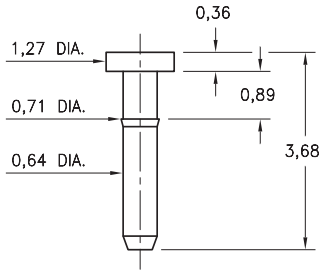
Flat face Target contact, wire termination
Press-fit in 1,55 mounting hole. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



6430

6430-0-00-XX-00-00-03-0

Press-fit in 0,64 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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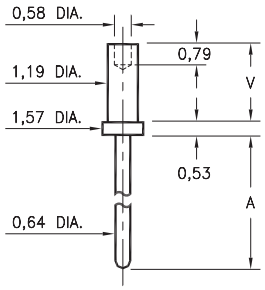
MALE PCB PINS

PRINTED CIRCUIT PINS

3130/3134

31XX-X-00-XX-00-00-08-0

Swage mount in 1,32 hole

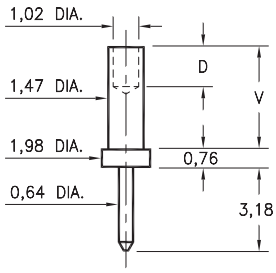


Basic Part Number	Board Thick-ness	Length A	Length V
3134-1	0,79	2,01	1,30
3134-2	1,57	2,01	2,08
3134-3	2,39	2,01	2,87
3134-4	3,18	2,01	3,68
3130-1	0,79	4,55	1,30
3130-2	1,57	4,55	2,08
3130-3	2,39	4,55	2,87
3130-4	3,18	4,55	3,68

3113

3113-X-00-XX-00-00-08-0

Swage mount in 1,57 hole

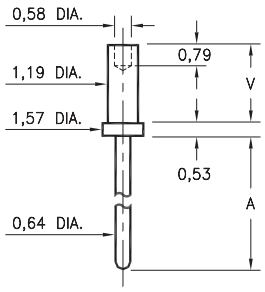


Basic Part Number	Board Thick-ness	Length V	Depth D
3113-1	0,79	1,57	1,02
3113-2	1,57	2,39	1,57
3113-3	2,39	3,18	1,57
3113-4	3,18	3,96	1,57

3151

3151-X-00-XX-00-00-08-0

Swage mount in 1,32 hole



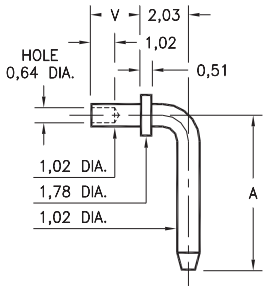
Basic Part Number	Board Thick-ness	Length A	Length V
3151-1	0,79	12,17	1,30
3151-2	1,57	12,17	2,08
3151-3	2,39	12,17	2,87
3151-4	3,18	12,17	3,68

3301⇨3304

330X-X-14-XX-00-00-00-0

Specify board thickness

Swage mount in 1,09 hole



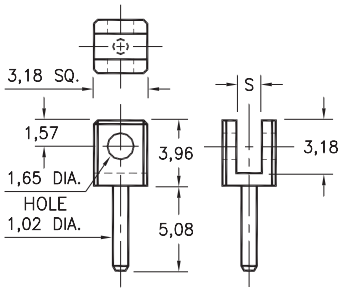
Basic Part Number	Pin Centers A
3301-X	6,53
3302-X	9,07
3303-X	9,53
3304-X	14,27

-X-	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3620

3620-X-32-XX-00-00-08-0

Board edge rivet mount.

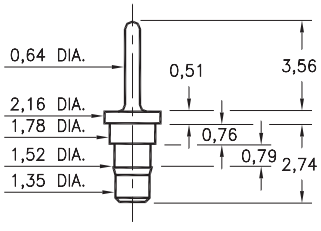


Basic Part Number	Board Thickness	Slot S
3620-1	0,79	1,19
3620-2	1,57	1,91

0940

0940-0-00-XX-00-00-03-0

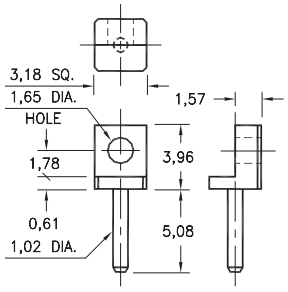
Press-fit in 1,45 mounting hole



3621

3621-0-32-XX-00-00-08-0

Board edge rivet mount



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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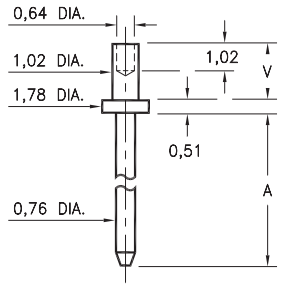
MALE PCB PINS

PRINTED CIRCUIT PINS

3110/3111

311X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole

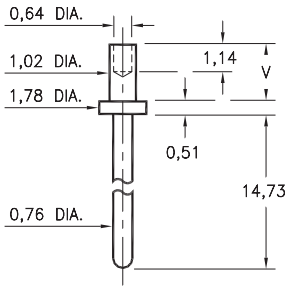


Basic Part Number	Board Thickness	Length A	Length V
3110-1	0,79	3,81	1,30
3110-2	1,57	3,81	2,08
3110-3	2,39	3,81	2,87
3111-1	0,79	7,62	1,30
3111-2	1,57	7,62	2,08
3111-3	2,39	7,62	2,87

3150

3150-X-00-XX-00-00-08-0

Swage mount in 1,09 mounting hole

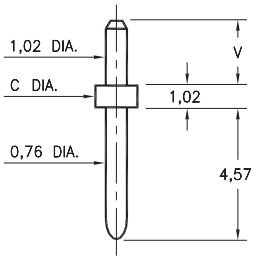


Basic Part Number	Board Thickness	Length V
3150-1	0,79	1,30
3150-2	1,57	2,08

3136/3137

313X-X-00-XX-00-00-08-0

Solder mount in 1,09 mounting hole
3137-1 is available on 16mm wide carrier tape: 580 parts per 330mm reel.
See page 224.1 for Tape & Reel details

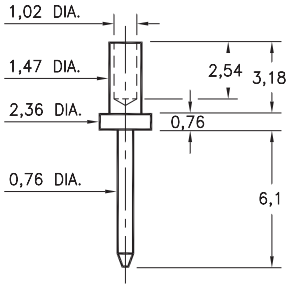


Basic Part Number	Board Thickness	Length V	Flange Dia. C
3136-1	1,57	2,08	1,98
3136-2	2,39	2,79	
3136-3	3,18	3,68	
3137-1	1,57	2,08	1,57
3137-2	2,39	2,79	
3137-3	3,18	3,68	
3137-4	3,96	4,70	

3148

3148-3-00-XX-00-00-08-0

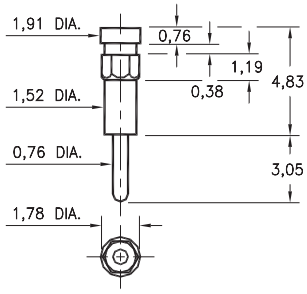
Swage mount in 1,57 hole
For a 2,39 thick board



8815

8815-0-00-XX-00-00-03-0

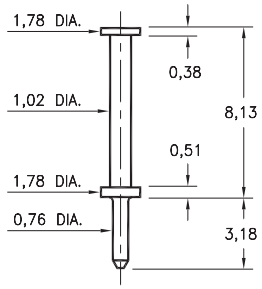
Hex press-fit in 1,68 plated through-hole



6821

6821-0-00-XX-00-00-08-0

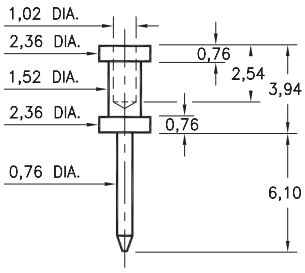
Turret terminal pin



3132

3132-0-00-XX-00-00-08-0

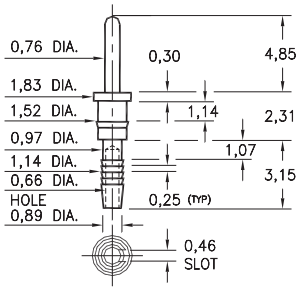
Wire crimp termination, Annnealed
Accepts wire sizes 22 AWG Max. / 24 AWG Min.



5601

5601-0-01-XX-00-00-03-0

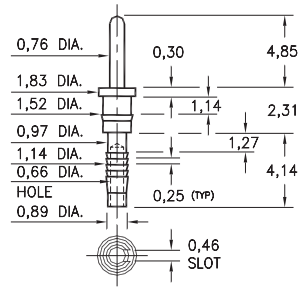
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 1,52 → 2,54 thick board



5602

5602-0-01-XX-00-00-03-0

Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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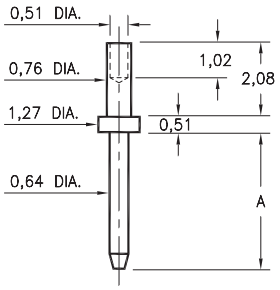
MALE PCB PINS

PRINTED CIRCUIT PINS

3120

3120-X-00-XX-00-00-08-0

Swage mount in 0,86 hole

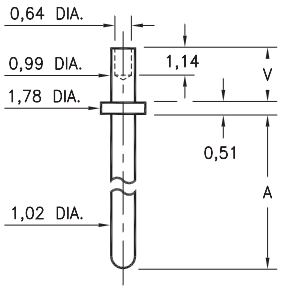


Basic Part Number	Pin Length A
3120-1	5,21
3120-2	6,35

3122⇨3153

31XX-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



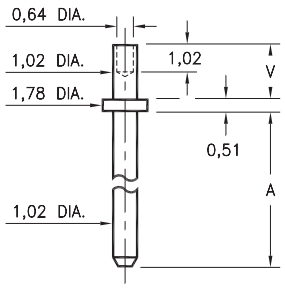
Basic Part Number	Pin Length A
3153-X	4,57
3141-X	5,84
3122-X	7,11
3149-X	9,65
3123-X	14,73
3140-X	19,81
3124-X	22,35

-X-	Board Thickness	Length V
1	0,79	1,3
2	1,57	2,08

3101⇨3106

310X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



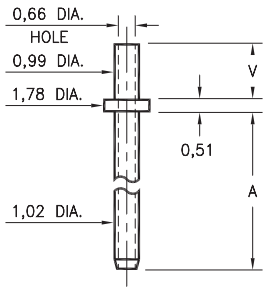
Basic Part Number	Pin Length A
3101-X	3,81
3102-X	4,78
3103-X	7,62
3104-X	12,7
3105-X	19,05
3106-X	25,40

-X-	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3221⇨3223

322X-0-00-XX-00-00-08-0

Swage mount in 1,09 hole



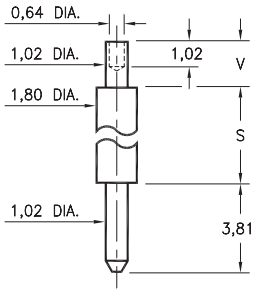
Basic Part Number	Pin Length A
3221-X	2,54
3222-X	3,81
3223-X	7,62

-X-	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3125/3126

312X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



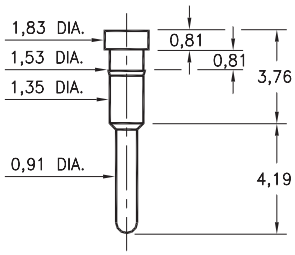
Basic Part Number	Pin Length S
3125-X	4,32
3126-X	10,67

-X-	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

0995

0995-0-00-XX-00-00-03-0

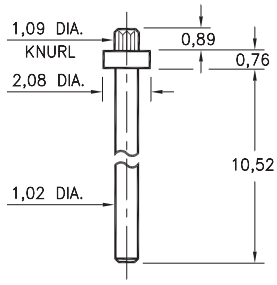
Press-fit in 1,45 mounting hole



4526

4526-0-00-XX-00-00-03-0

Press-fit in 1,02 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

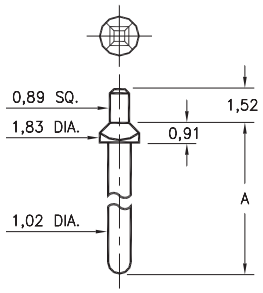
MALE PCB PINS

PRINTED CIRCUIT PINS

8600/8954/8955

8XXX-X-05-XX-00-00-03-0

Square press-fit in 1,09 plated through-hole

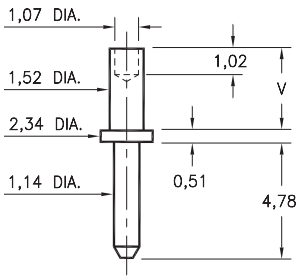


Basic Part Number	Pin Length A
8600-0	10,16
8600-1	21,59
8600-2	30,48
8954-0	3,45
8955-0	16,64

3159

3159-X-00-XX-00-00-08-0

Swage mount in 1,63 hole

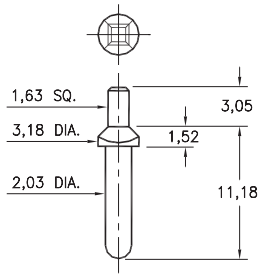


Basic Part Number	Board Thickness	Length V
3159-1	0,79	1,57
3159-2	1,57	2,39
3159-3	2,39	3,18
3159-4	3,18	3,96

8952

8952-0-05-XX-00-00-03-0

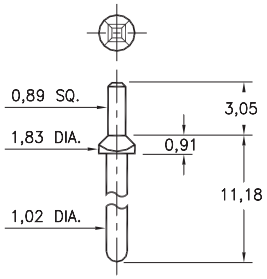
Square press-fit in 2,21 plated through-hole



8953

8953-0-05-XX-00-00-03-0

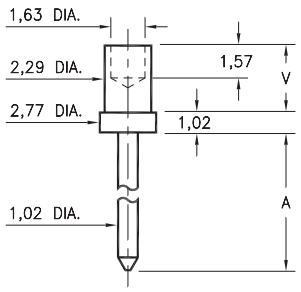
Square press-fit in 1,19 plated through-hole



3230

3230-X-00-XX-00-00-08-0

Swage mount in 2,39 hole

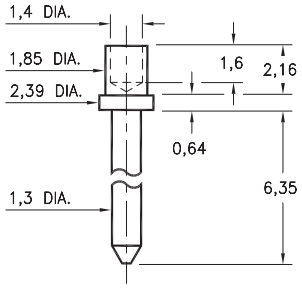


Basic Part Number	Board Thick-ness	Length A	Length V
3230-1	0,79	5,13	1,65
3230-2	1,57	5,79	2,41
3230-3	2,39	6,55	3,18
3230-4	3,18	7,32	3,94

3146

3146-2-00-XX-00-00-08-0

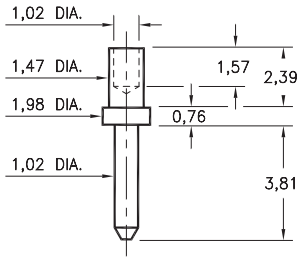
Swage mount in 1,93 hole
For a 1,57 thick board



3142

3142-2-00-XX-00-00-08-0

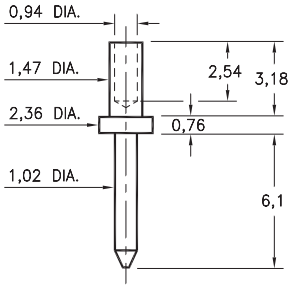
Swage mount in 1,57 hole
For a 1,57 thick board



3232

3232-3-00-XX-00-00-08-0

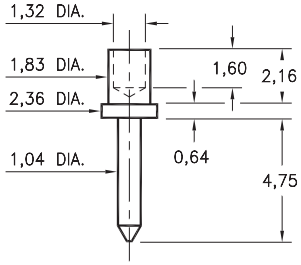
Swage mount in 1,57 hole
For a 2,39 thick board



3145

3145-2-00-XX-00-00-08-0

Swage mount in 1,93 hole
For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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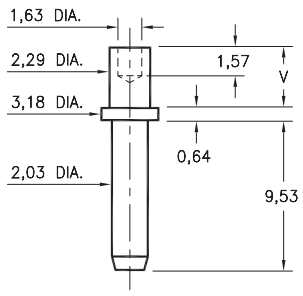
MALE PCB PINS

PRINTED CIRCUIT PINS

3231

3231-X-00-XX-00-00-08-0

Swage mount in 2,39 hole

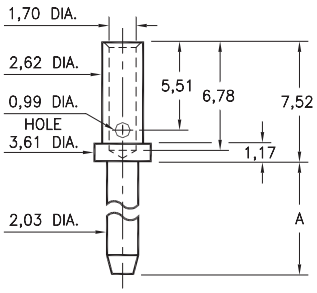


Basic Part Number	Board Thickness	Length V
3231-2	1,57	2,39
3231-3	2,39	3,18
3231-4	3,18	3,96

3609

3609-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.

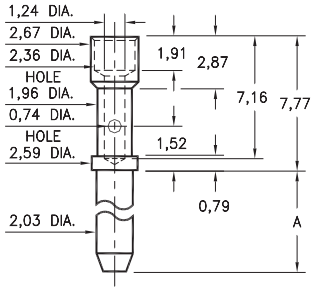


Basic Part Number	Pin Length A
3609-1	5,08
3609-2	9,53
3609-3	12,7

3601

3601-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



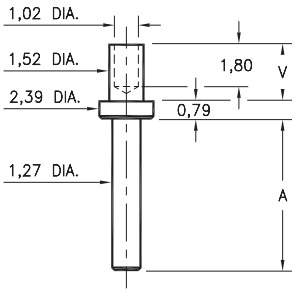
Basic Part Number	Pin Length A
3601-1	5,08
3601-2	9,53
3601-3	12,7

3133/3138/3152

31XX-X-00-XX-00-00-08-0

Specify board thickness

Swage mount in 1,63 hole



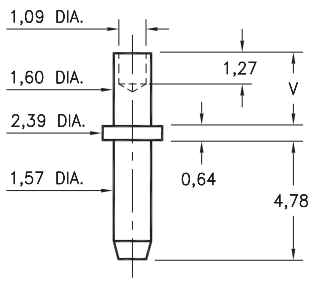
Basic Part Number	Pin Length A
3152-X	2,39
3133-X	5,56
3138-X	7,16

- X -	Board Thickness	Length V
1	0,79	1,60
2	1,57	2,39
3	2,39	3,18
4	3,18	3,96

3144

3144-X-00-XX-00-00-08-0

Swage mount in 1,70 hole



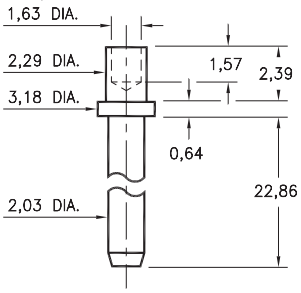
Basic Part Number	Board Thickness	Length V
3144-1	0,79	1,35
3144-2	1,57	2,13
3144-3	2,39	2,92

3233

3233-2-00-XX-00-00-08-0

Swage mount in 2,39 hole

For a 1,57 thick board

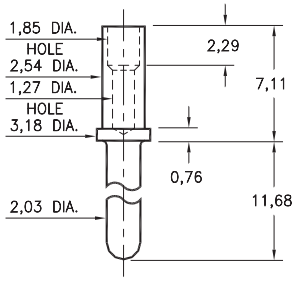


0520

0520-0-00-XX-00-00-03-0

Annealed

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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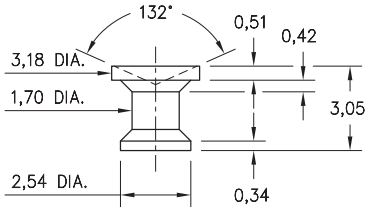
MALE PCB PINS

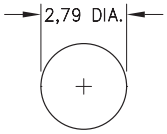
PRINTED CIRCUIT PINS

1943
1943-0-00-15-00-00-03-0

Concave face Target contact, surface mount
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel.
See page 224.2 for Tape & Reel details

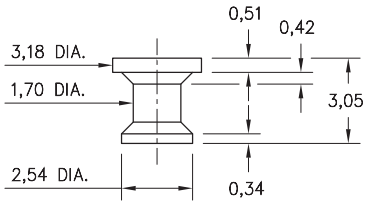


P.C.B. Layout

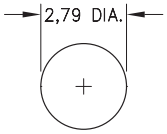


1944
1944-0-00-15-00-00-03-0

Flat face Target contact, surface mount
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel.
See page 224.2 for Tape & Reel details

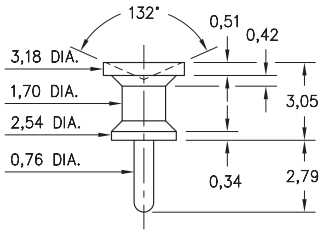


P.C.B. Layout



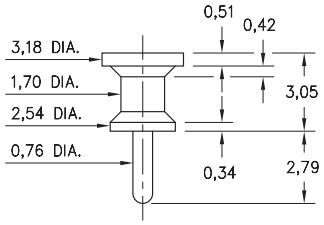
1945
1945-0-00-15-00-00-03-0

Concave face Target contact, Solder Tail



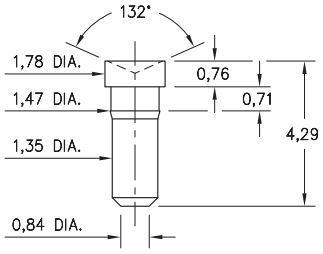
1946
1946-0-00-15-00-00-03-0

Flat face Target contact, Solder Tail



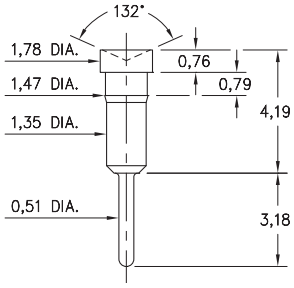
1947
1947-0-00-15-00-00-03-0

Concave face Target contact, surface mount
Press-fit in 1,42 mounting hole



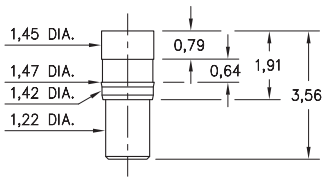
1948
1948-0-00-15-00-00-03-0

Concave face Target contact, Solder Tail
Press-fit in 1,42 mounting hole



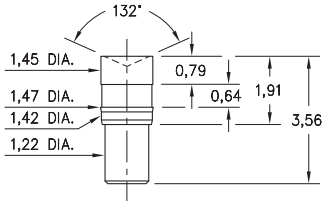
1949
1949-0-00-15-00-00-03-0

Flat face Target contact, surface mount
Press-fit in 1,42 mounting hole



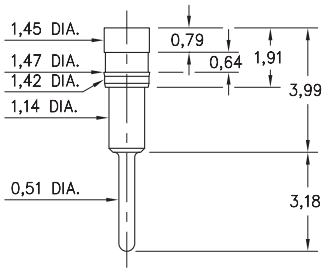
1950
1950-0-00-15-00-00-03-0

Concave face Target contact, surface mount
Press-fit in 1,42 mounting hole



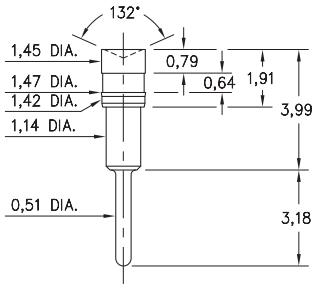
1951
1951-0-00-15-00-00-03-0

Flat face Target contact, Solder Tail
Press-fit in 1,42 mounting hole



1952
1952-0-00-15-00-00-03-0

Concave face Target contact, Solder Tail
Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: 194X - 0 - 00 - 15 - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:
15 0,25µm GOLD OVER NICKEL (RoHS)

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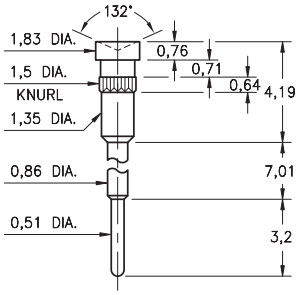
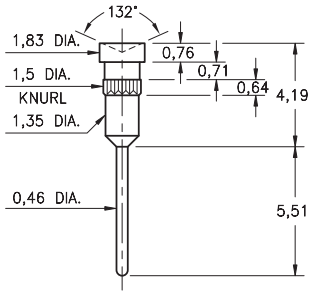
MALE PCB PINS

PRINTED CIRCUIT PINS

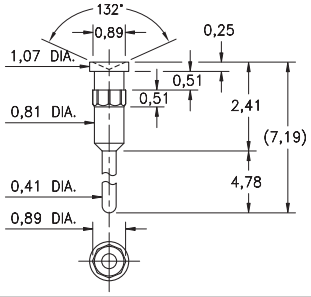
1958
1958-0-00-15-00-00-03-0
Concave face Target contact, solder Tail
Press-fit in 1,45 mounting hole



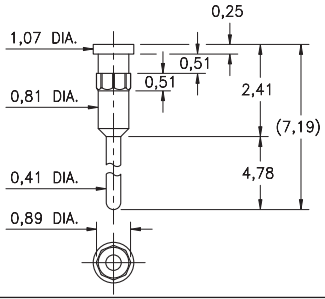
1960
1960-0-00-15-00-00-03-0
Concave face Target contact, solder Tail
Press-fit in 1,45 mounting hole



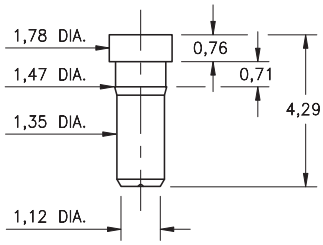
1831
1831-1-00-15-00-00-03-0
Concave face Target contact, solder Tail
Hex press-fit in 0,86 mounting hole



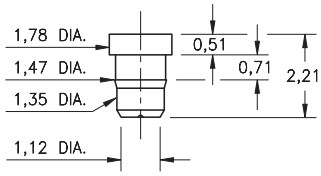
1931
1931-1-00-15-00-00-03-0
Flat face Target contact, solder Tail
Hex press-fit in 0,86 mounting hole



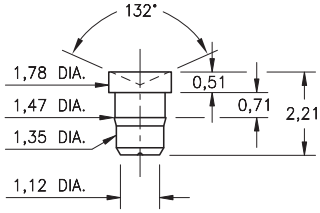
1953
1953-0-00-XX-00-00-03-0
Flat face Target contact, surface mount
Press-fit in 1,42 mounting hole



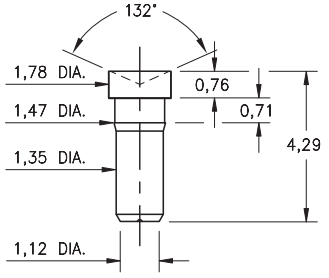
1954
1954-0-00-XX-00-00-03-0
Flat face Target contact, surface mount
Press-fit in 1,42 mounting hole



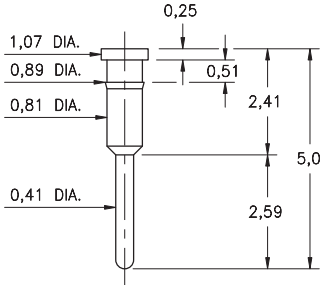
1955
1955-0-00-15-00-00-03-0
Concave face Target contact, surface mount
Press-fit in 1,42 mounting hole



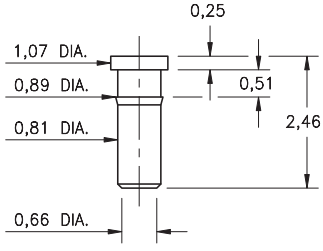
1957
1957-0-00-15-00-00-03-0
Concave face Target contact, surface mount
Press-fit in 1,42 mounting hole



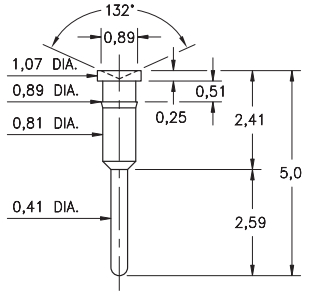
1933
1933-0-00-XX-00-00-03-0
Flat face Target contact, solder Tail
Press-fit in 0,86 mounting hole



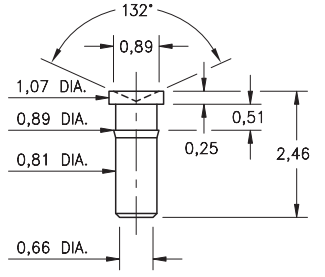
1935
1935-0-00-XX-00-00-03-0
Flat face Target contact, surface mount
Press-fit in 0,86 mounting hole



1934
1934-0-00-15-00-00-03-0
Concave face Target contact, solder Tail
Press-fit in 0,86 mounting hole



1936
1936-0-00-15-00-00-03-0
Concave face Target contact, surface mount
Press-fit in 0,86 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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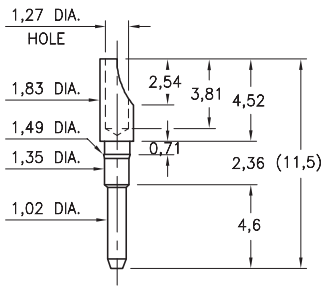
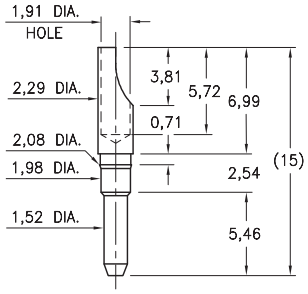
MALE PCB PINS

PRINTED CIRCUIT PINS

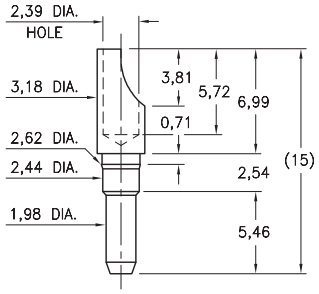
1140
1140-0-01-XX-00-00-03-0
Press-fit in 1,45 mounting hole
For wire sizes up to 20 AWG



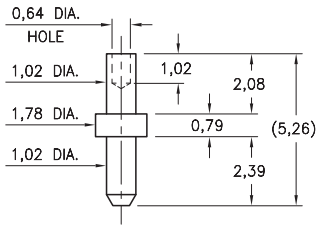
1160
1160-0-01-XX-00-00-03-0
Press-fit in 2,03 mounting hole
For wire sizes up to 16 AWG



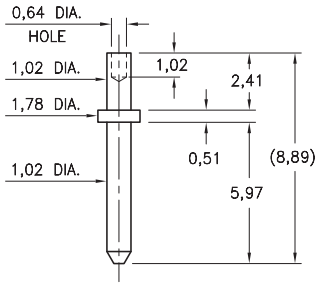
1178
1178-0-01-XX-00-00-03-0
Press-fit in 2,54 mounting hole
For wire sizes up to 14 AWG



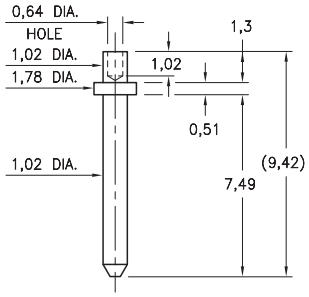
4658
4658-0-00-XX-00-00-08-0
Swage mount 1,09 mounting hole



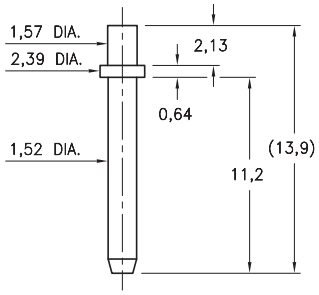
4275
4275-0-00-XX-00-00-08-0
Swage mount 1,09 mounting hole



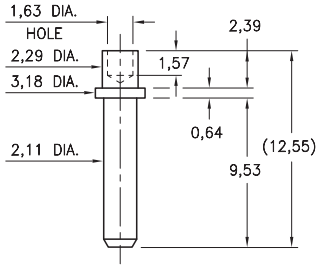
9103
9103-0-00-XX-00-00-08-0
Swage mount 1,09 mounting hole



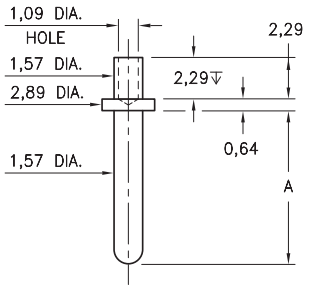
4357
4357-0-00-XX-00-00-03-0
Solder mount 1,63 mounting hole



9242
9242-0-00-XX-00-00-08-0
Swage mount 2,39 mounting hole

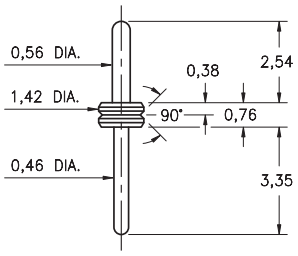


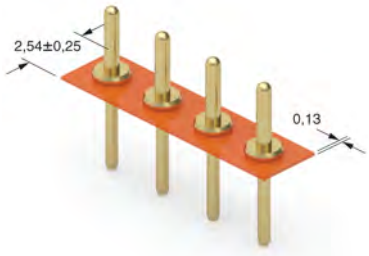
4639/4717
4XXX-0-00-XX-00-00-08-0
Swage mount 1,65 mounting hole



Basic Part Number	Pin Length A
4639-0	10,97
4717-0	8,43

3169
3169-0-61-15-00-00-03-0
Pins are mounted on a removeable Kapton tape carrier at 2,54 pitch.
Packaged on continuous strip spools of 1,000 pins.
(Contact distributors for other order quantity options.)





SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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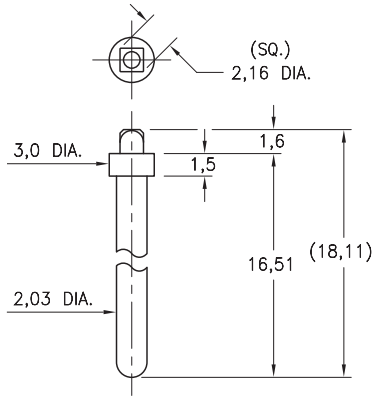
MALE PCB PINS

PRINTED CIRCUIT PINS

5920

5920-0-00-XX-00-00-03-0

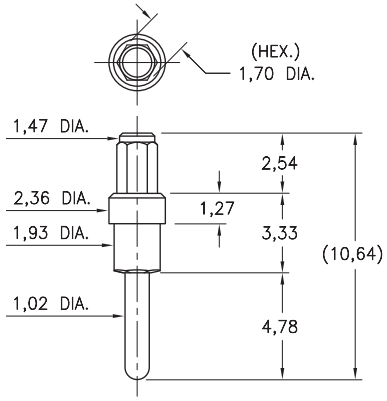
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 2,18mm (.086")



6025

6025-0-00-XX-00-00-03-0

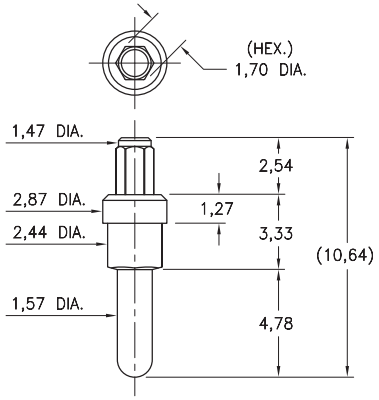
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 1,73mm (.068")



6035

6035-0-00-XX-00-00-03-0

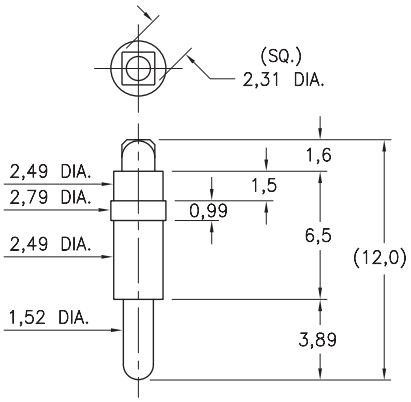
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 1,73mm (.068")



8237

8237-0-05-XX-00-00-03-0

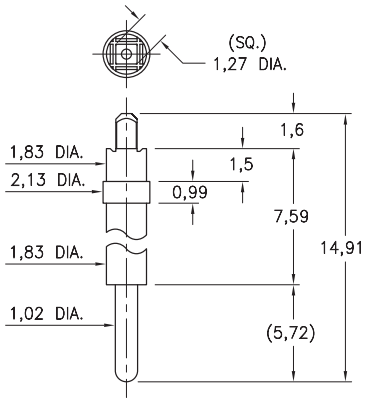
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 2,34mm (.092")



6834

6834-0-00-XX-00-00-03-0

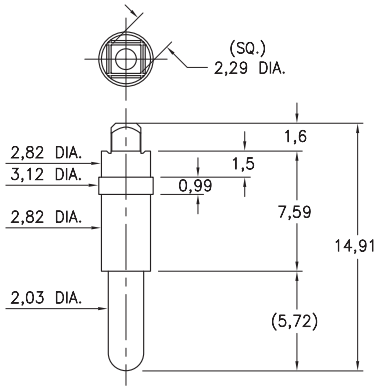
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 1,3mm (.0512")



6835

6835-0-00-XX-00-00-44-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: 2,34mm (.092")
* Pin Material: Tellurium Copper Alloy



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately 0,038 - 0,076. Depending on surface plating, typical finished hole sizes are 0,076 - 0,127 smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- 0,051

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted) *

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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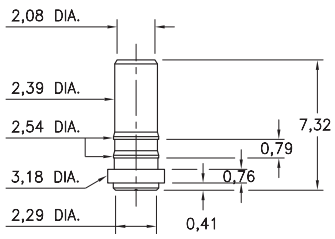
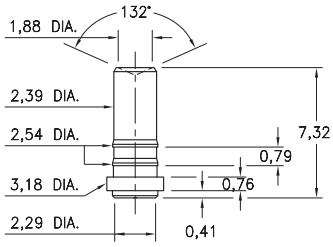
MALE PCB PINS

PRINTED CIRCUIT PINS

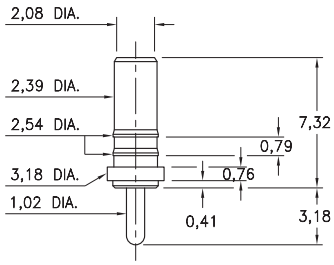
1959-0
1959-0-00-15-00-00-03-0
Flat face Target contact, surface mount
Press-fit in 2,49 mounting hole



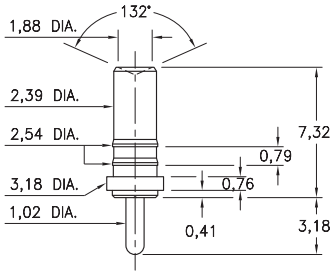
1959-1
1959-1-00-15-00-00-03-0
Concave face Target contact, surface mount
Press-fit in 2,49 mounting hole



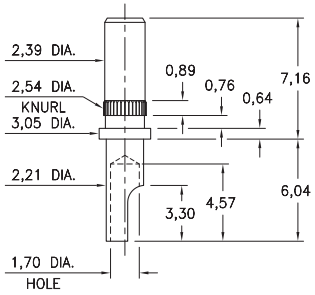
1969-0
1969-0-00-15-00-00-03-0
Flat face Target contact, solder Tail
Press-fit in 2,49 mounting hole



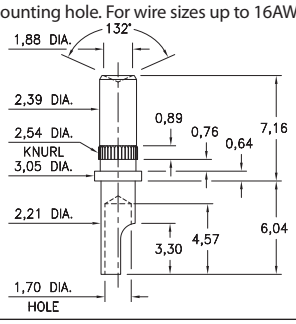
1969-1
1969-1-00-15-00-00-03-0
Concave face Target contact, solder Tail
Press-fit in 2,49 mounting hole



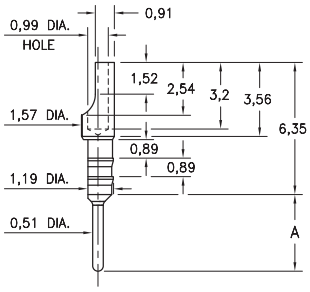
1968-0
1968-0-00-15-00-00-03-0
Flat face Target contact, Press-fit in 2,46 mounting hole. For wire sizes up to 16AWG



1968-1
1968-1-00-15-00-00-03-0
Concave face Target contact, Press-fit in 2,46 mounting hole. For wire sizes up to 16AWG



3078
3078-X-00-15-00-00-03-0
Press-fit in 1,45 mounting hole
For wire sizes up to 22 AWG



Basic Part Number	Pin Length A
3078-0	3,68
3078-1	5,21

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard (Annealed)

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL(RoHS)
- **21** 0,51µm GOLD OVER NICKEL(RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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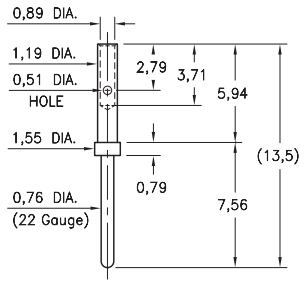
MALE PCB PINS

CRIMP PINS FOR 12-28 AWG WIRE

3922
3922-0-01-XX-00-00-08-0

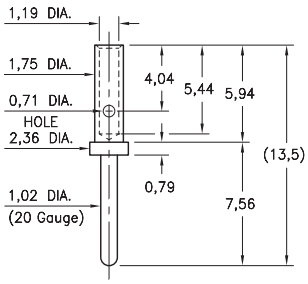
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 28 AWG Min.



Dimensions per M39029/58-360

3920
3920-0-01-XX-00-00-08-0

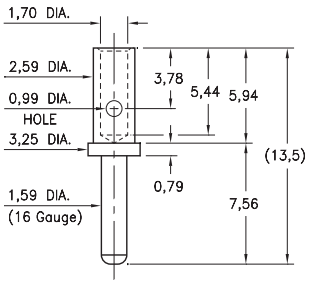
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



Dimensions per M39029/58-363

3916
3916-0-01-XX-00-00-08-0

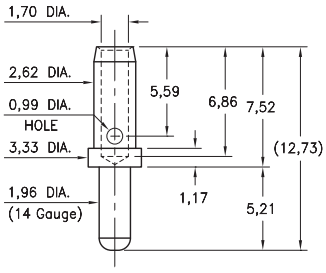
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



Dimensions per M39029/58-364

3914
3914-0-01-XX-00-00-08-0

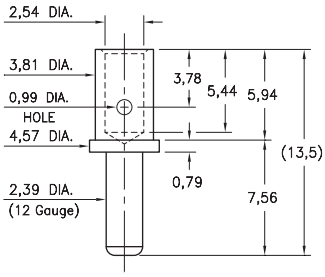
Wire crimp termination. Accepts wire sizes 14 AWG Max. / 16 AWG Min.



Dimensions per M39029/1-102

3912
3912-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 12 AWG Max. / 14 AWG Min.



Dimensions per M39029/58-365

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard (Annealed)

Dimensions: Inches

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: 39XX - X - 01 - XX - 00 - 00 - 08 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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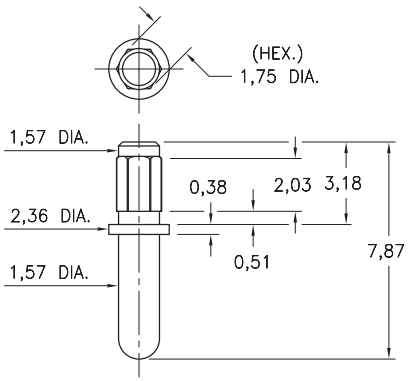
MALE PCB PINS

PRINTED CIRCUIT PINS

3975

3975-0-00-XX-00-00-03-0

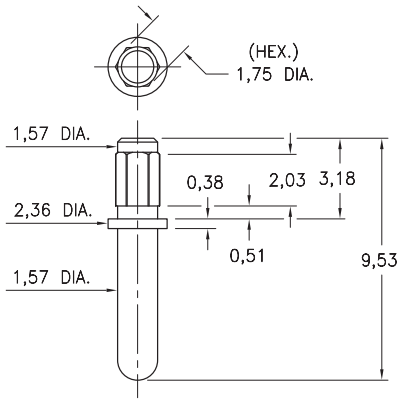
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,78mm) .070"



3977

3977-0-00-XX-00-00-03-0

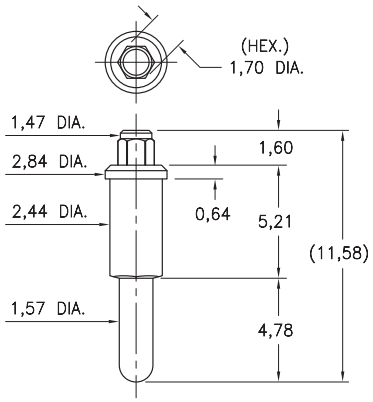
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,78mm) .070"



4427

4427-0-00-XX-00-00-03-0

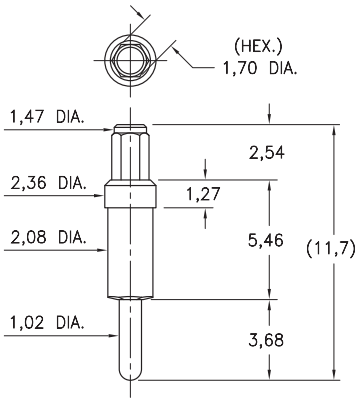
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,73mm) .068"



7504

7504-0-00-XX-00-00-03-0

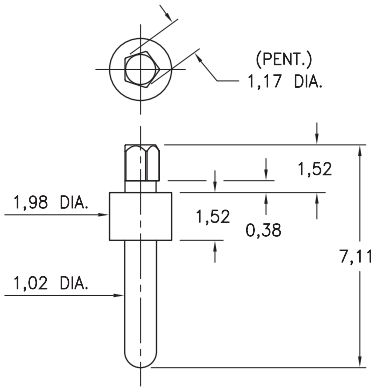
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,73mm) .068"



9003

9003-0-00-XX-00-00-03-0

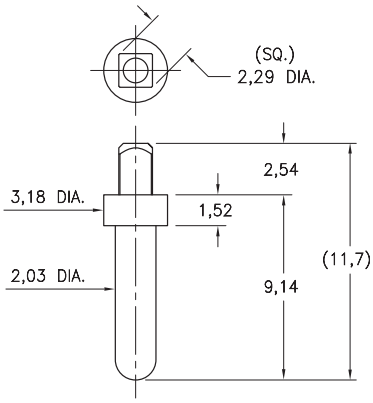
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,19mm) .047"



6955

6955-0-05-XX-00-00-03-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (2,31mm) .091"



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately 0,038 - 0,076. Depending on surface plating, typical finished hole sizes are 0,076 - 0,127 smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- 0,051

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted) *

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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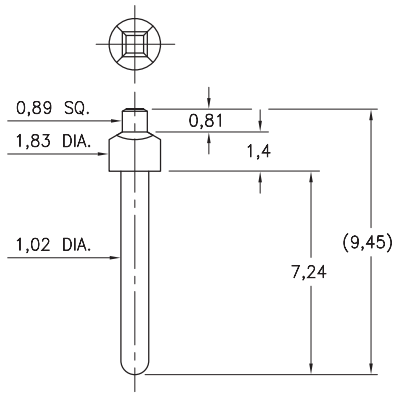
MALE PCB PINS

PRINTED CIRCUIT PINS

1655

1655-0-00-XX-00-00-03-0

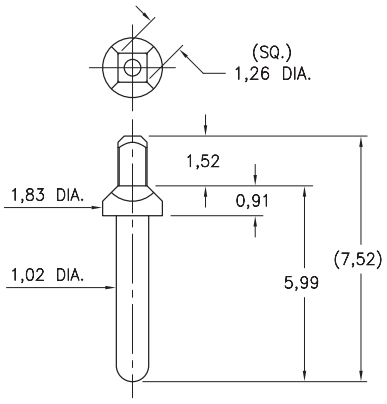
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,28mm) .0505"



4219

4219-0-05-XX-00-00-03-0

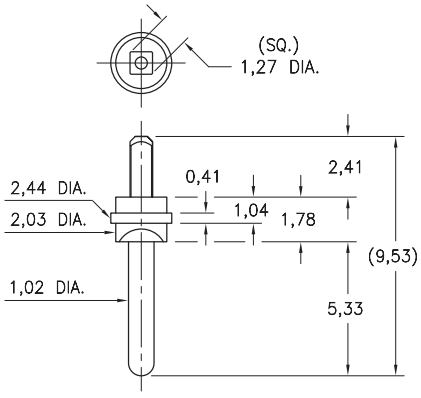
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,28mm) .0505"



5459

5459-0-00-XX-00-00-03-0

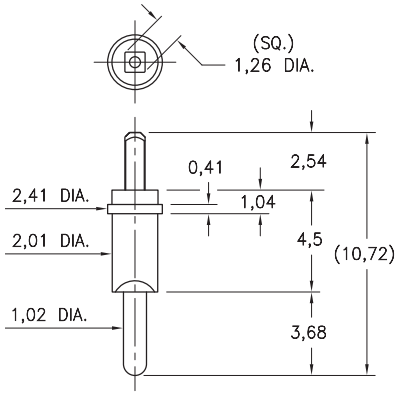
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,3mm) .051"



9061

9061-0-00-XX-00-00-03-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: (1,28mm) .0505"



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately 0,038 - 0,076. Depending on surface plating, typical finished hole sizes are 0,076 - 0,127 smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- 0,051

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted) *

Dimensions: Inches

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - 03 - 0

BASIC PART #

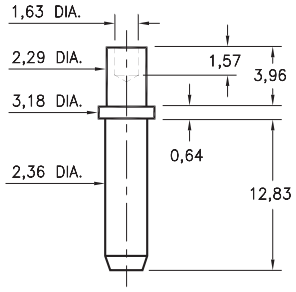
SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

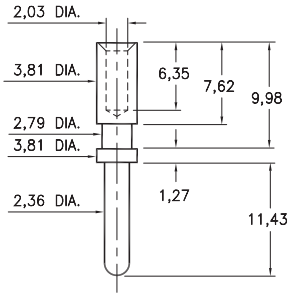
MALE PCB PINS

PRINTED CIRCUIT PINS

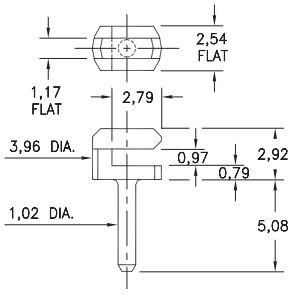
5231
5231-0-00-XX-00-00-38-0
Swage mount in 2,39 hole
For a 3,18 thick board



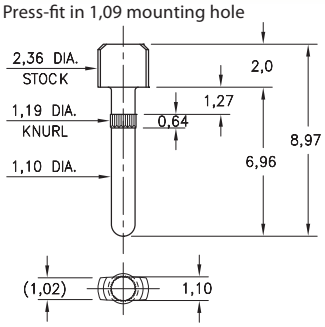
9092
9092-0-00-XX-00-00-38-0
Wire crimp termination up to 14 AWG



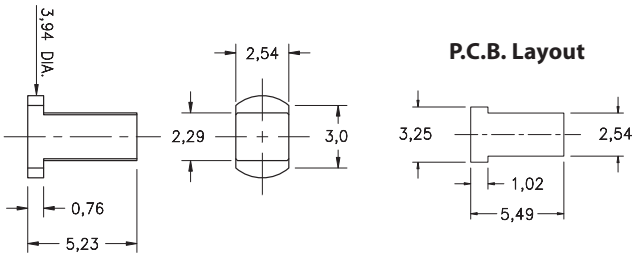
7310
7310-0-01-XX-00-00-08-0
Board edge press-fit



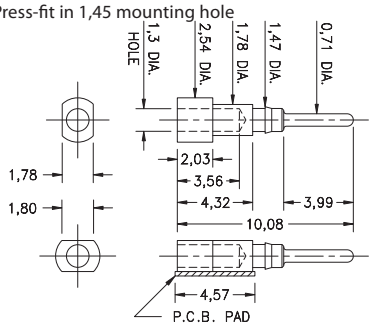
5066
5066-0-00-26-00-00-03-0
Press-fit in 1,09 mounting hole



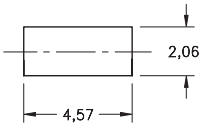
7937
7937-0-00-15-00-00-03-0
Target contact, horizontal surface mount
Also available on 16mm wide carrier tape:
2,400 parts per 330mm reel.
See page 224.2 for Tape & Reel details



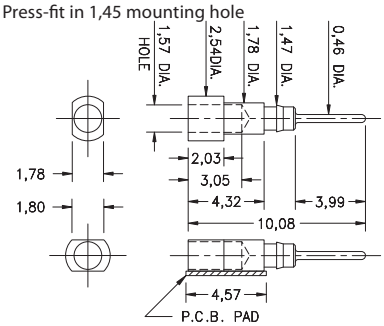
1502
1502-0-00-XX-00-00-03-0
Press-fit in 1,45 mounting hole



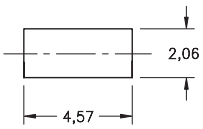
P.C.B. Layout



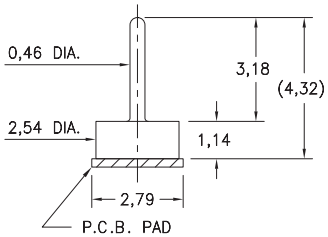
5102
5102-0-00-XX-00-00-33-0
Press-fit in 1,45 mounting hole



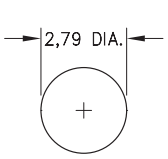
P.C.B. Layout



1508
1508-0-00-15-00-00-03-0
Test point, surface mount
Also available on 16mm wide carrier tape:
1,600 parts per 330mm reel.
See page 224.2 for Tape & Reel details



P.C.B. Layout



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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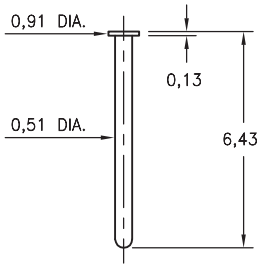
MALE PCB PINS

PINS ON TAPE & REEL PACKAGING

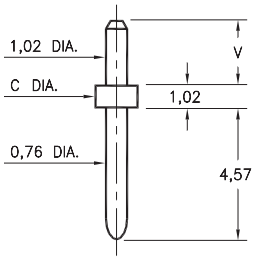
6547
6547-0-57-XX-00-00-33-0

Solder mount in 0,61 mounting hole
24mm wide X 8mm pitch carrier tape:
1,080 parts per 330mm reel.



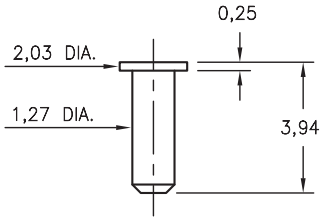
3137
3137-1-57-XX-00-00-08-0

Solder mount in 1,09 mounting hole
16mm wide X 12mm pitch carrier tape:
580 parts per 330mm reel.



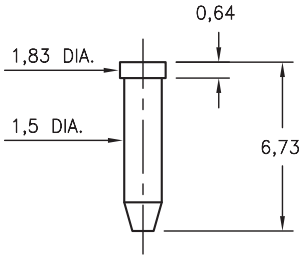
2381
2381-0-57-XX-00-00-33-0

Solder mount in 1,37 mounting hole
16mm wide X 8mm pitch carrier tape:
1,800 parts per 330mm reel.



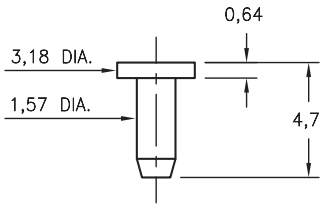
9265
9265-0-57-XX-00-00-38-0

Solder mount in 1,6 mounting hole
16mm wide X 8mm pitch carrier tape:
1,170 parts per 330mm reel.



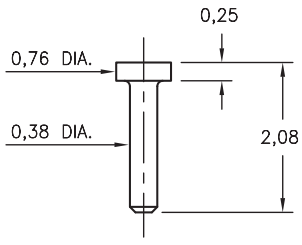
9022
9022-0-57-XX-00-00-33-0

Solder mount in 1,68 mounting hole
24mm wide X 8mm pitch carrier tape:
1,500 parts per 330mm reel.



4825
4825-0-57-XX-00-00-33-0

Solder mount in 0,48 mounting hole
16mm wide X 8mm pitch carrier tape:
3,250 parts per 330mm reel.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 0X - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)
- **34** 1,27µm GOLD OVER NICKEL (RoHS)

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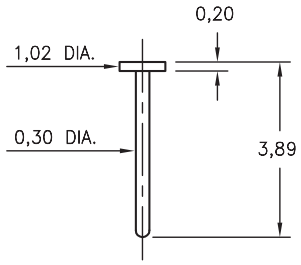
MALE PCB PINS

PINS ON TAPE & REEL PACKAGING

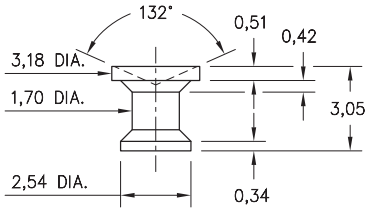
9083
9083-0-57-XX-00-00-38-0

Solder mount in .016 mounting hole
16mm wide X 8mm pitch carrier tape:
1,950 parts per 13" reel.

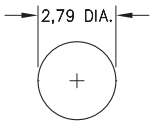


1943
1943-0-57-15-00-00-03-0

Concave face Target contact, surface mount
16mm wide X 8mm pitch carrier tape:
2,200 parts per 330mm reel.

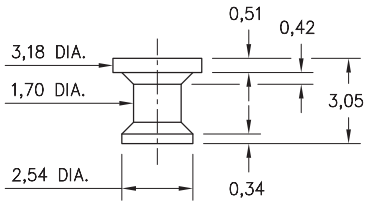


P.C.B. Layout

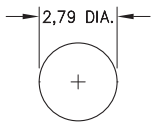


1944
1944-0-57-15-00-00-03-0

Flat face Target contact, surface mount
16mm wide X 8mm pitch carrier tape:
2,200 parts per 330mm reel.

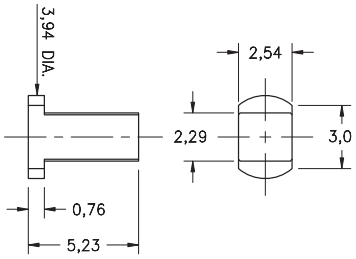


P.C.B. Layout

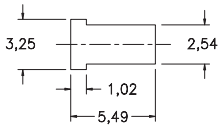


7937
7937-0-58-15-00-00-03-0

Target contact, horizontal surface mount
16mm wide X 8mm pitch carrier tape:
2,400 parts per 330mm reel.

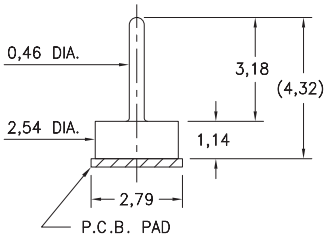


P.C.B. Layout

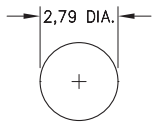


1508
1508-0-57-15-00-00-03-0

Test point, surface mount
16mm wide X 8mm pitch carrier tape:
1,600 parts per 330mm reel.



P.C.B. Layout



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:
15 0,25µm GOLD OVER NICKEL (RoHS)

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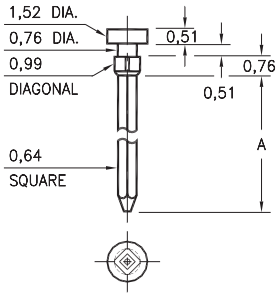
MALE PCB PINS

WRAPOST TERMINALS

5275

5275-X-05-XX-00-00-01-0

Square press-fit in 0,89 plated through-hole

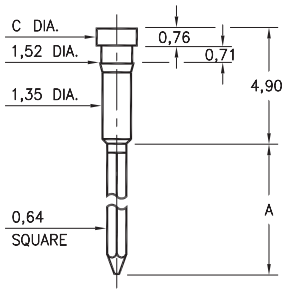


Basic Part Number	# of Wraps	Length A
5275-1	1	9,40
5275-2	2	11,94
5275-3	3	15,49

1010⇨1012/1020⇨1022

10XX-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

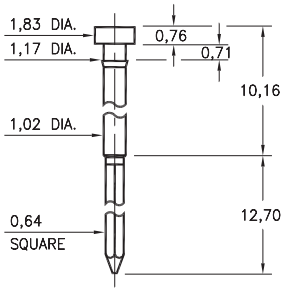


Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	6,60	1,83
1011-2	2	9,14	
1010-3	3	12,7	
1022-1	1	6,60	1,57
1021-2	2	9,14	
1020-3	3	12,7	

1215

1215-3-05-XX-00-00-01-0

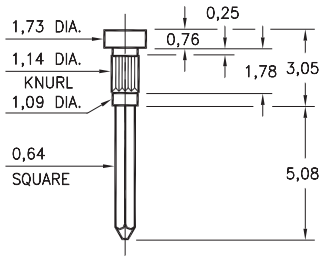
Press-fit in 1,09 mounting hole



1124

1124-0-05-XX-00-00-01-0

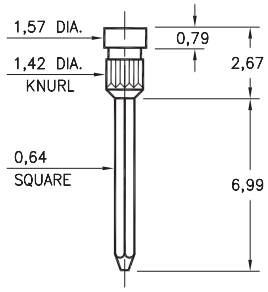
Press-fit in 1,09 mounting hole



1210

1210-0-05-XX-00-00-01-0

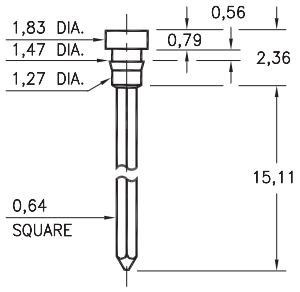
Press-fit in 1,35 mounting hole



1222

1222-0-05-XX-00-00-01-0

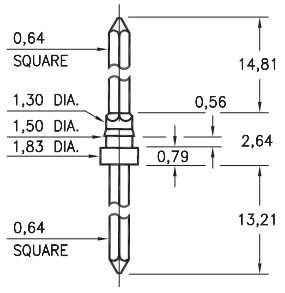
Press-fit in 1,40 mounting hole



1221

1221-0-05-XX-00-00-01-0

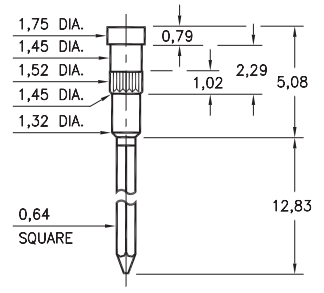
Press-fit in 1,42 mounting hole



1110

1110-3-05-XX-00-00-01-0

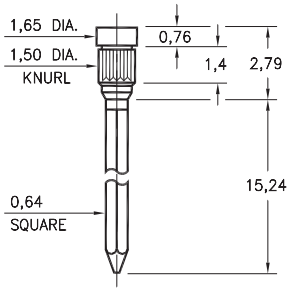
Press-fit in 1,45 mounting hole



1094

1094-0-05-XX-00-00-01-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)

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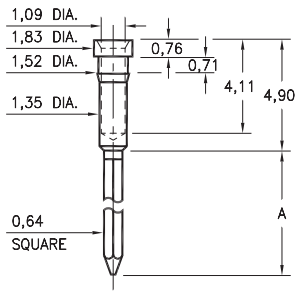
MALE PCB PINS

WRAPOST TERMINALS

1030⇨1032

103X-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

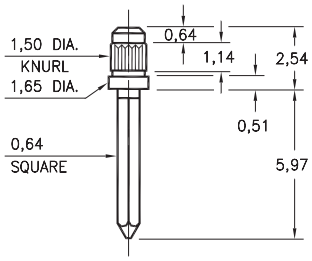


Basic Part Number	# of Wraps	Length A
1032-1	1	6,60
1031-2	2	9,14
1030-3	3	12,7

1216

1216-0-05-XX-00-00-01-0

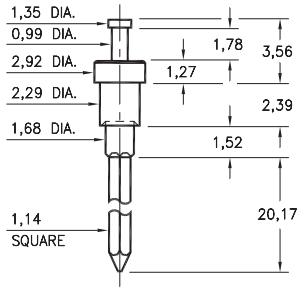
Press-fit in 1,42 mounting hole



1095

1095-0-05-XX-00-00-01-0

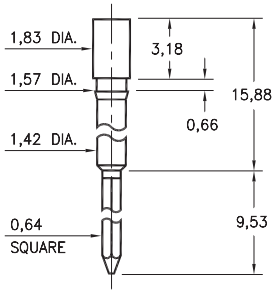
Swage mount in 2,39 hole
For a 1,57 thick board



1214

1214-0-05-XX-00-00-01-0

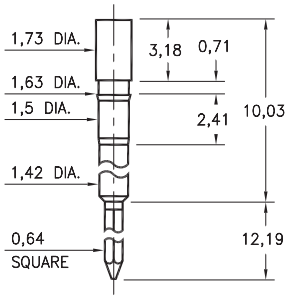
Press-fit in 1,50 mounting hole



1212

1212-0-05-XX-00-00-01-0

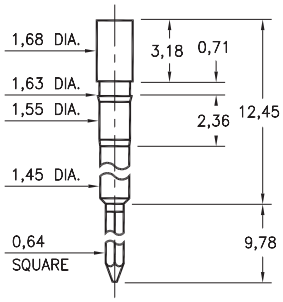
Press-fit in 1,55 mounting hole



1213

1213-0-05-XX-00-00-01-0

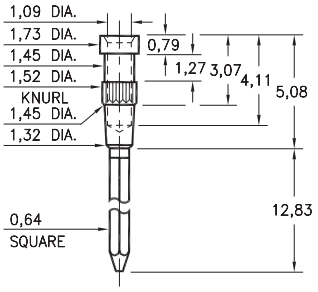
Press-fit in 1,55 mounting hole



0318

0318-3-05-XX-00-00-01-0

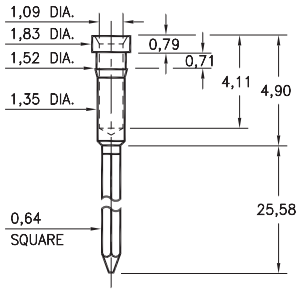
Press-fit in 1,45 mounting hole



1302

1302-0-05-XX-00-00-01-0

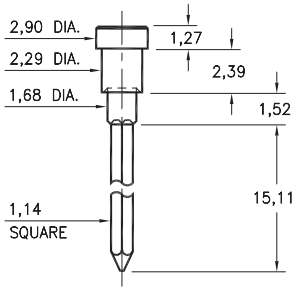
Press-fit in 1,45 mounting hole



1097

1097-0-05-XX-00-00-01-0

Swage mount in 2,39 hole
For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)

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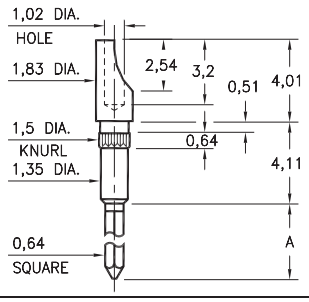
MALE PCB PINS

WRAPOST TERMINALS

8301

8301-X-24-XX-00-00-01-0

Press-fit in 1,45 mounting hole
For wire sizes up to 22 AWG

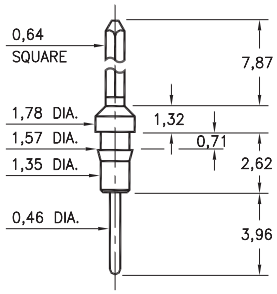


Basic Part Number	# of Wraps	Length A
8301-2	2	9,40
8301-3	3	12,95

1083

1083-0-05-XX-00-00-01-0

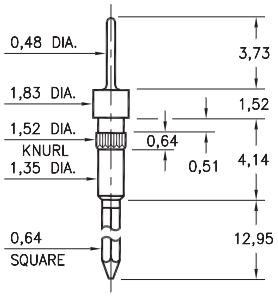
Press-fit in 1,50 mounting hole



5301

5301-0-05-XX-00-00-01-0

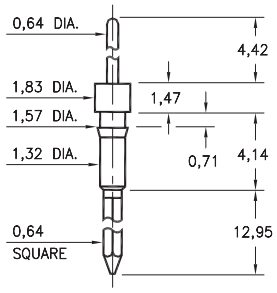
Press-fit in 1,45 mounting hole



1090

1090-0-05-XX-00-00-01-0

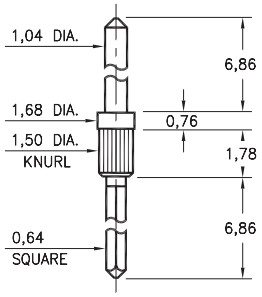
Press-fit in 1,50 mounting hole



8608

8608-0-05-XX-00-00-01-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)

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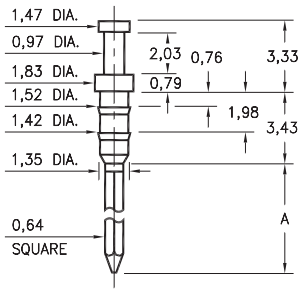
MALE PCB PINS

WRAPOST TERMINALS

1096

1096-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

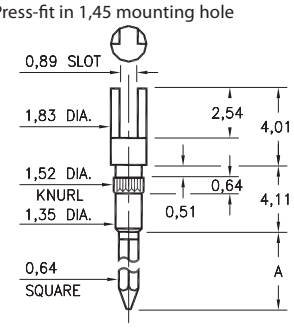


Basic Part Number	# of Wraps	Length A
1096-2	2	9,68
1096-3	3	13,39

1106

1106-X-23-XX-00-00-01-0

Press-fit in 1,45 mounting hole

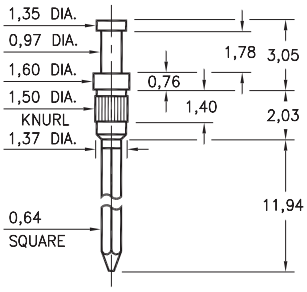


Basic Part Number	# of Wraps	Length A
1106-2	2	9,40
1106-3	3	12,95

1093

1093-0-05-XX-00-00-01-0

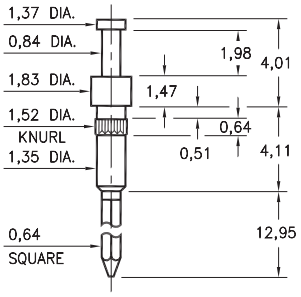
Press-fit in 1,42 mounting hole



0730

0730-3-05-XX-00-00-01-0

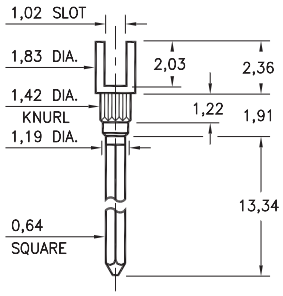
Press-fit in 1,45 mounting hole



1122

1122-0-22-XX-00-00-01-0

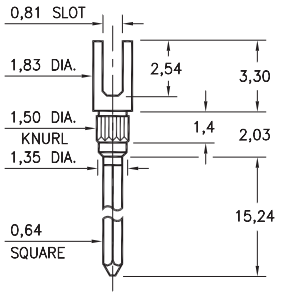
Press-fit in 1,35 mounting hole



1064

1064-0-23-XX-00-00-01-0

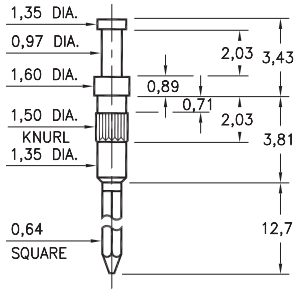
Press-fit in 1,42 mounting hole



1092

1092-0-05-XX-00-00-01-0

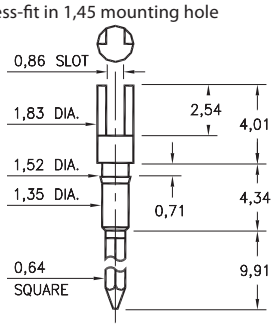
Press-fit in 1,42 mounting hole



1068

1068-0-23-XX-00-00-01-0

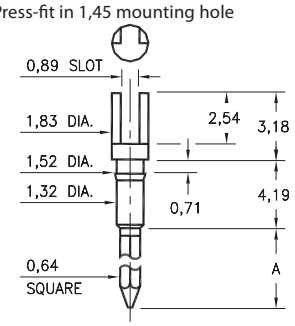
Press-fit in 1,45 mounting hole



1070⇨1072

107X-X-23-XX-00-00-01-0

Press-fit in 1,45 mounting hole



Basic Part Number	# of Wraps	Length A
1072-1	1	6,60
1071-2	2	9,40
1070-3	3	12,95

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **21** 0,51µm GOLD OVER NICKEL (RoHS)

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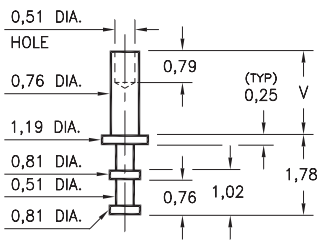
MALE PCB PINS

SOLDER TERMINAL TURRETS

2111

2111-X-00-XX-00-00-07-0

Swage mount in 0,84 hole

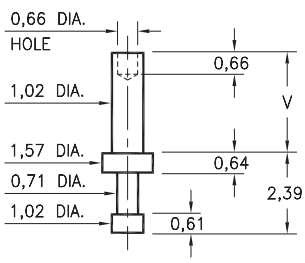


Basic Part Number	Board Thickness	Length V
2111-1	0,79	1,35
2111-2	1,57	2,13
2111-3	2,39	2,92

2113

2113-X-00-XX-00-00-07-0

Swage mount in 1,09 hole

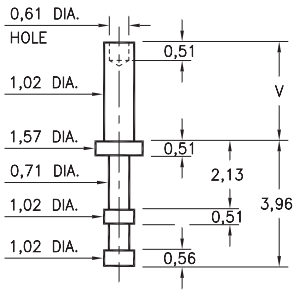


Basic Part Number	Board Thickness	Length V
2113-1	0,79	1,35
2113-2	1,57	2,13
2113-3	2,39	2,92
2113-4	3,18	3,73

2108

2108-X-00-XX-00-00-07-0

Swage mount in 1,09 hole

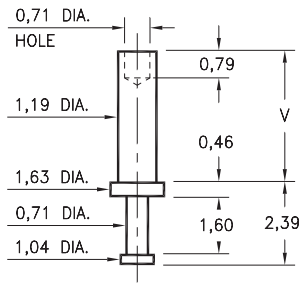


Basic Part Number	Board Thickness	Length V
2108-1	0,79	1,35
2108-2	1,57	2,13
2108-3	2,39	2,92
2108-4	3,18	3,73

2102

2102-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

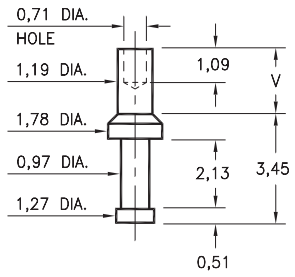


Basic Part Number	Board Thickness	Length V
2102-5	0,41	0,89
2102-1	0,79	1,37
2102-2	1,57	2,13
2102-3	2,39	2,92
2102-4	3,18	3,73

2109

2109-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

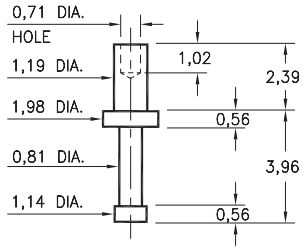


Basic Part Number	Board Thickness	Length V
2109-1	0,79	1,32
2109-2	1,57	2,16

2324

2324-2-00-XX-00-00-07-0

Swage mount in 1,32 hole
For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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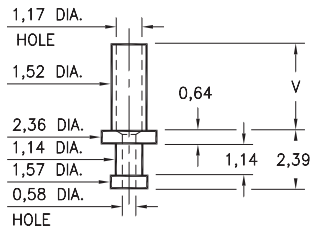
MALE PCB PINS

SOLDER TERMINAL TURRETS

2312

2312-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

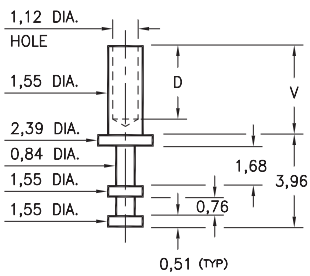


Basic Part Number	Board Thickness	Length V
2312-1	0,79	1,35
2312-2	1,57	2,39
2312-3	2,39	2,92
2312-4	3,18	3,73

2308

2308-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

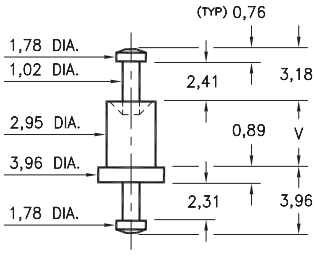


Basic Part Number	Board Thick-ness	Length V	Depth D
2308-1	0,79	1,37	0,91
2308-2	1,57	2,13	1,68
2308-3	2,39	2,92	2,44
2308-4	3,18	3,73	3,20

2707

2707-X-00-XX-00-00-07-0

Swage mount in 3,05 hole

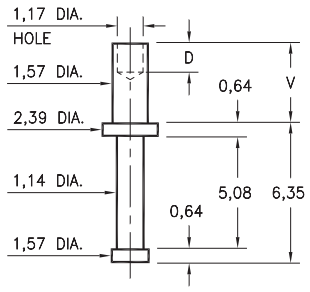


Basic Part Number	Board Thickness	Length V
2707-1	0,79	1,57
2707-2	1,57	2,39
2707-3	2,39	3,18
2707-4	3,18	3,96

2329

2329-X-00-XX-00-00-07-0

Swage mount in 1,70 hole

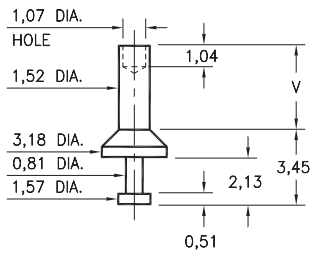


Basic Part Number	Board Thick-ness	Length V	Depth D
2329-1	0,79	1,14	1,14
2329-2	1,57	2,39	1,57
2329-3	2,39	3,18	1,57
2329-4	3,18	3,96	1,57

2510

2510-X-00-XX-00-00-07-0

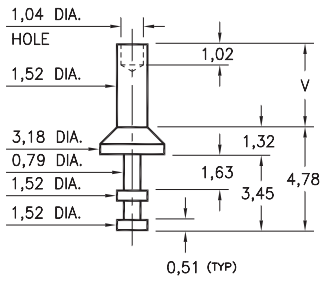
Swage mount in 1,63 hole



2513

2513-X-00-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
251X-1	0,79	1,57
251X-2	1,57	2,39
251X-3	2,39	3,18
251X-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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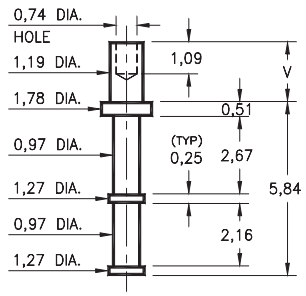
MALE PCB PINS

SOLDER TERMINAL TURRETS

2110

2110-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

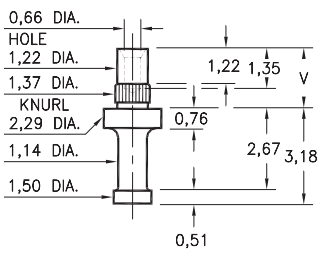


Basic Part Number	Board Thickness	Length V
2110-1	0,79	1,24
2110-2	1,57	2,08

2333

2333-X-00-XX-00-00-07-0

Press-fit & swage in 1,32 mounting hole

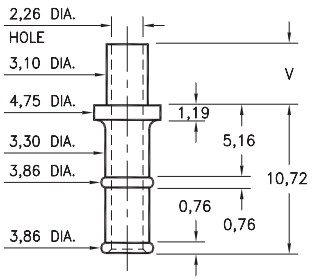


Basic Part Number	Board Thickness	Length V
2333-1	1,98	2,62
2333-2	1,57	2,21
2333-3	1,19	1,83

2821

2821-X-00-XX-00-00-07-0

Swage mount in 3,18 hole

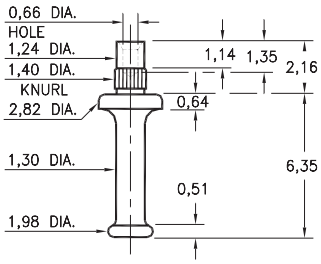


Basic Part Number	Board Thickness	Length V
2821-2	1,57	2,77
2821-3	2,39	3,58
2821-4	3,18	4,37

2533

2533-0-00-XX-00-00-07-0

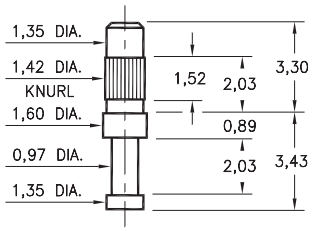
Press-fit & swage in 1,32 mounting hole
For a 1,57 thick board



2101

2101-3-00-XX-00-00-07-0

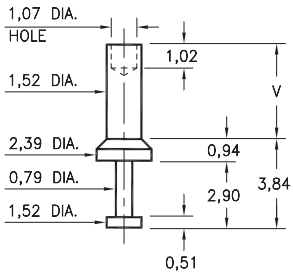
Press-fit in 1,35 mounting hole
For a 1,57 to 2,39 thick board



2316

2316-X-00-XX-00-00-07-0

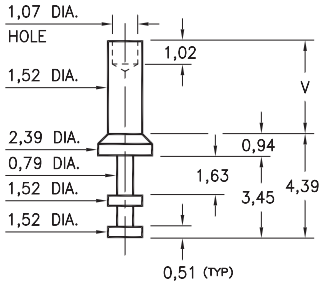
Swage mount in 1,63 hole



2317

2317-X-00-XX-00-00-07-0

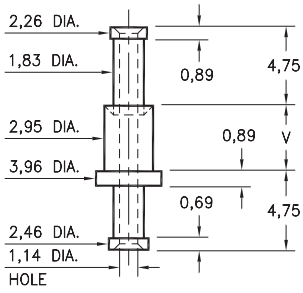
Swage mount in 1,63 hole



2708

2708-X-00-XX-00-00-07-0

Swage mount in 3,05 hole



Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,57
2XXX-2	1,57	2,39
2XXX-3	2,39	3,18
2XXX-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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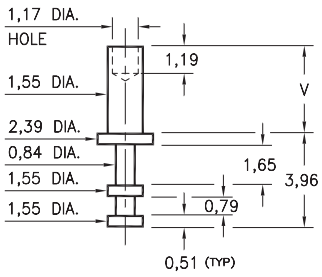
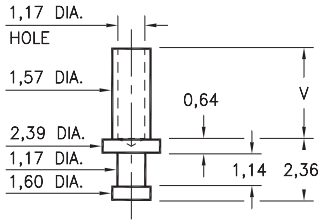
MALE PCB PINS

SOLDER TERMINAL TURRETS

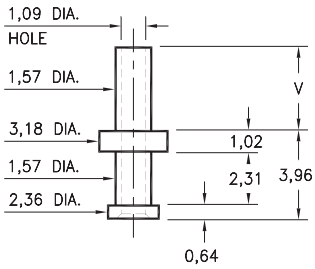
2348
2348-X-00-XX-00-00-07-0
Swage mount in 1,63 hole



2301
2301-X-00-XX-00-00-07-0
Swage mount in 1,70 hole

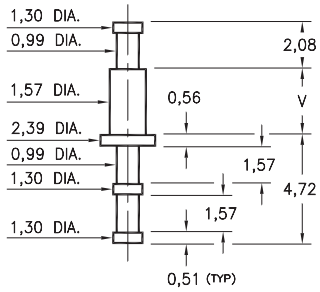


2506
2506-X-00-XX-00-00-07-0
Swage mount in 1,70 hole



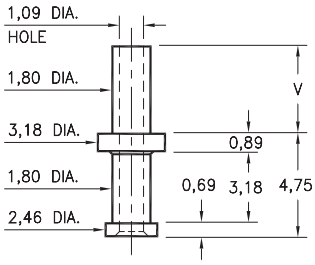
Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,35
2XXX-2	1,57	2,13
2XXX-3	2,39	2,92
2XXX-4	3,18	3,73

2310
2310-X-00-XX-00-00-07-0
Swage mount in 1,70 hole



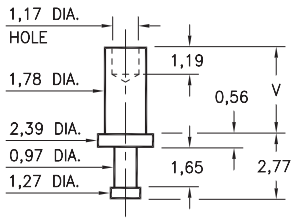
Basic Part Number	Board Thickness	Length V
2310-1	0,79	1,35
2310-2	1,57	2,08
2310-3	2,39	2,87
2310-4	3,18	3,68

2505
2505-X-00-XX-00-00-07-0
Swage mount in 1,93 hole

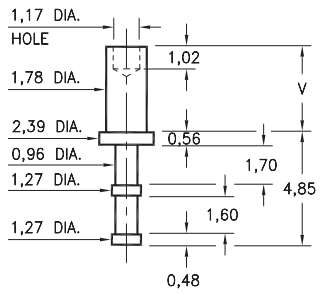


Basic Part Number	Board Thickness	Length V
2505-1	0,79	1,57
2505-2	1,57	2,36
2505-3	2,39	3,18
2505-4	3,18	3,96

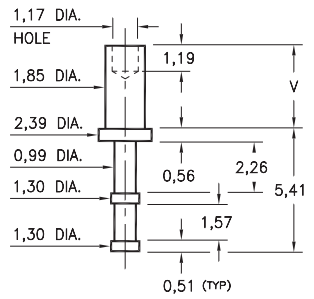
2325
2325-X-00-XX-00-00-07-0
Swage mount in 1,85 hole



2355
2355-X-00-XX-00-00-07-0
Swage mount in 1,85 hole



2365
2365-X-00-XX-00-00-07-0
Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
23X5-1	0,79	1,35
23X5-2	1,57	2,13
23X5-3	2,39	2,92
23X5-4	3,18	3,73

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:
- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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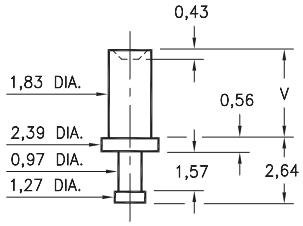
MALE PCB PINS

SOLDER TERMINAL TURRETS

2304

2304-X-00-XX-00-00-07-0

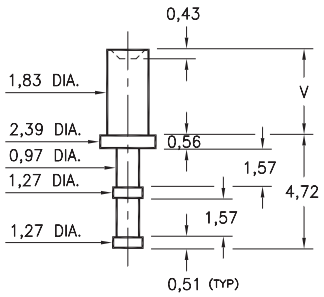
Swage mount in 1,93 hole



2305

2305-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

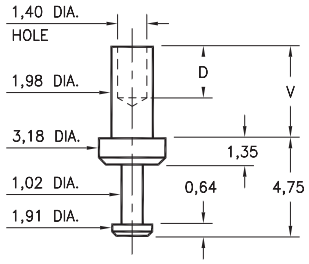


Basic Part Number	Board Thickness	Length V
230X-1	0,79	1,30
230X-2	1,57	2,08
230X-3	2,39	2,87
230X-4	3,18	3,68

2503

2503-X-00-XX-00-00-07-0

Swage mount in 2,08 hole

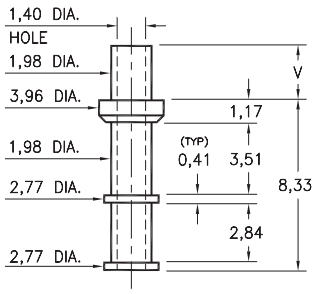


Basic Part Number	Board Thick-ness	Length V	Depth D
2503-1	0,79	1,98	1,72
2503-2	1,57	2,77	2,49
2503-3	2,39	3,58	2,49
2503-4	3,18	4,39	2,49

2704

2704-X-00-XX-00-00-07-0

Swage mount in 2,08 hole

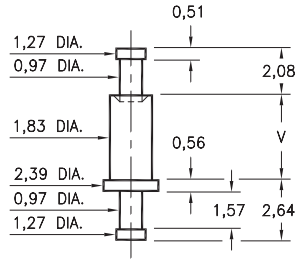


Basic Part Number	Board Thickness	Length V
2704-1	0,79	1,91
2704-2	1,57	2,67
2704-3	2,39	3,43
2704-4	3,18	4,19

2306

2306-X-00-XX-00-00-07-0

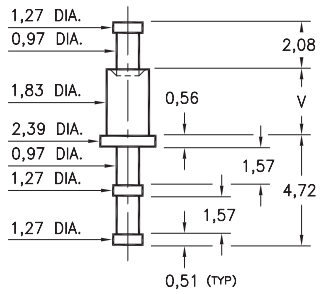
Swage mount in 1,93 hole



2307

2307-X-00-XX-00-00-07-0

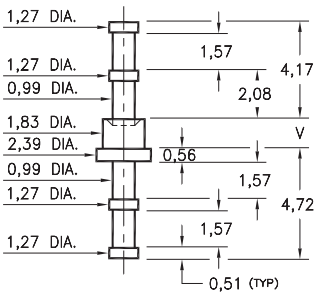
Swage mount in 1,93 hole



2311

2311-X-00-XX-00-00-07-0

Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
23XX-1	0,79	1,30
23XX-2	1,57	2,08
23XX-3	2,39	2,87
23XX-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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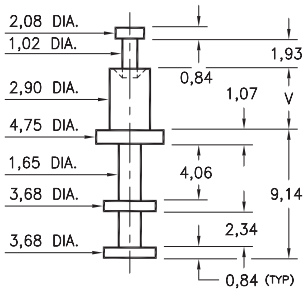
MALE PCB PINS

SOLDER TERMINAL TURRETS

2810

2810-X-00-XX-00-00-07-0

Swage mount in 3,0 hole

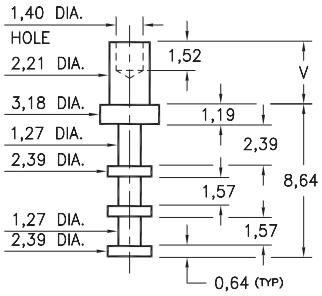


Basic Part Number	Board Thickness	Length V
2810-2	1,57	2,67
2810-3	2,39	3,43
2810-4	3,18	4,19

2524

2524-X-00-XX-00-00-07-0

Swage mount in 2,34 hole

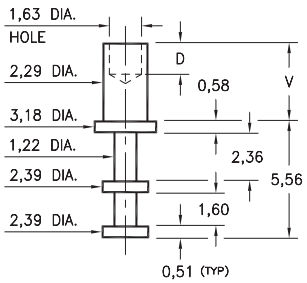


Basic Part Number	Board Thickness	Length V
2524-1	0,79	1,91
2524-2	1,57	2,67
2524-3	2,39	3,43
2524-4	3,18	4,19

2561

2561-X-00-XX-00-00-07-0

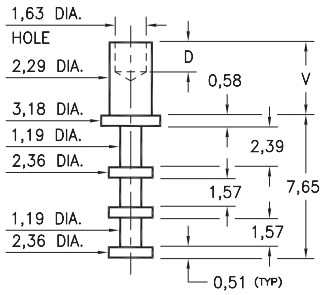
Swage mount in 2,39 hole



2508

2508-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

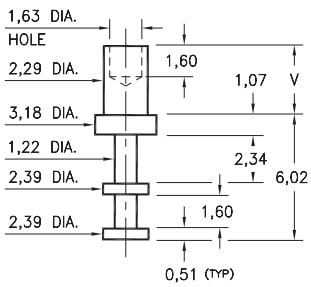


Basic Part Number	Board Thick-ness	Length V	Depth D
25XX-1	0,79	1,60	1,19
25XX-2	1,57	2,39	1,57
25XX-3	2,39	3,18	1,57
25XX-4	3,18	3,96	1,57

2551

2551-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

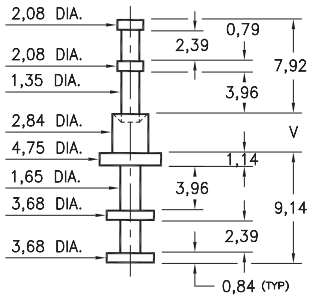


Basic Part Number	Board Thickness	Length V
2551-1	0,79	1,91
2551-2	1,57	2,67
2551-3	2,39	3,43
2551-4	3,18	4,19

2812

2812-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2812-1	1,57	2,67
2812-2	2,39	3,43
2812-3	3,18	4,19
2812-4	4,78	5,84

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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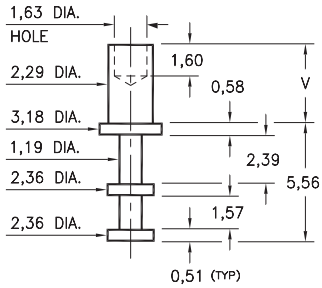
MALE PCB PINS

SOLDER TERMINAL TURRETS

2501

2501-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

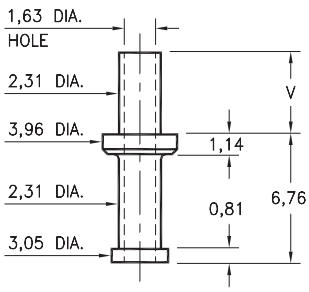


Basic Part Number	Board Thickness	Length V
2501-1	0,79	1,98
2501-2	1,57	2,77
2501-3	2,39	3,56
2501-4	3,18	4,34

2703

2703-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

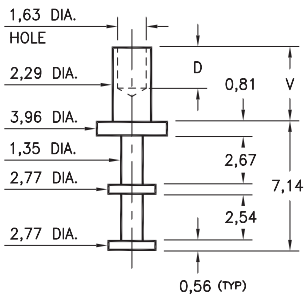


Basic Part Number	Board Thickness	Length V
2703-1	0,79	1,96
2703-2	1,57	2,72
2703-3	2,39	3,48
2703-4	3,18	4,24

2702

2702-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

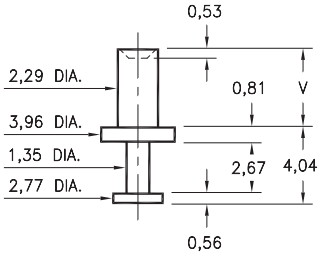


Basic Part Number	Board Thick-ness	Length V	Depth D
2702-1	0,79	1,91	1,60
2702-2	1,57	2,67	2,36
2702-3	2,39	3,43	2,36
2702-4	3,18	4,19	2,36

2710

2710-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

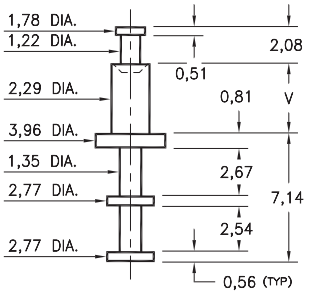


Basic Part Number	Board Thickness	Length V
2710-1	0,79	1,57
2710-2	1,57	2,39
2710-3	2,39	3,18
2710-4	3,18	3,96

2717

2717-X-00-XX-00-00-07-0

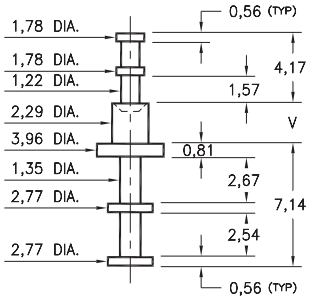
Swage mount in 2,39 hole



2713

2713-X-00-XX-00-00-07-0

Swage mount in 2,39 hole



Basic Part Number	Board Thickness	Length V
271X-1	0,79	1,57
271X-2	1,57	2,39
271X-3	2,39	3,18
271X-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: **Millimeters**

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

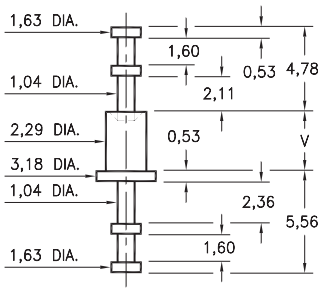
MALE PCB PINS

SOLDER TERMINAL TURRETS

2512

2512-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

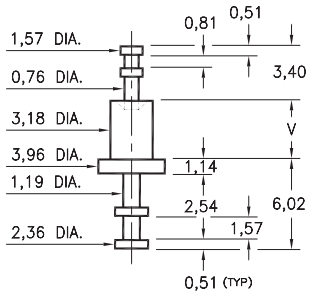


Basic Part Number	Board Thickness	Length V
2512-1	0,79	1,57
2512-2	1,57	2,39
2512-3	2,39	3,18
2512-4	3,18	3,96

2705

2705-X-00-XX-00-00-07-0

Swage mount in 3,28 hole

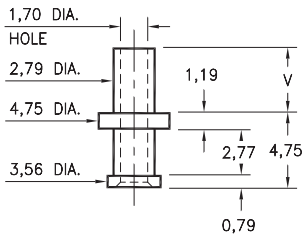


Basic Part Number	Board Thickness	Length V
2705-1	0,79	1,91
2705-2	1,57	2,67
2705-3	2,39	3,43
2705-4	3,18	4,19

2803

2803-X-00-XX-00-00-07-0

Swage mount in 2,87 hole

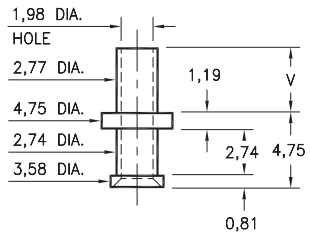


Basic Part Number	Board Thickness	Length V
2803-1	0,79	1,98
2803-2	1,57	2,77
2803-3	2,39	3,56
2803-4	3,18	4,34

2815

2815-X-00-XX-00-00-07-0

Swage mount in 2,87 hole

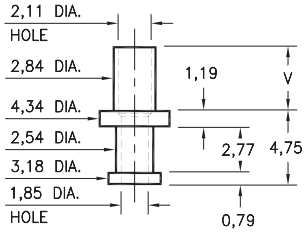


Basic Part Number	Board Thickness	Length V
2815-1	0,79	1,91
2815-2	1,57	2,67
2815-3	2,39	3,43
2815-4	3,18	4,19

2816

2816-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

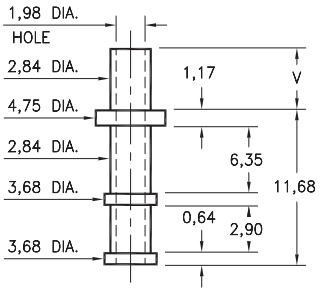


Basic Part Number	Board Thickness	Length V
2816-1	0,79	1,98
2816-2	1,57	2,77
2816-3	2,39	3,58
2816-4	3,18	4,37

2817

2817-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2817-1	0,79	1,91
2817-2	1,57	2,67
2817-3	2,39	3,43
2817-4	3,18	4,19

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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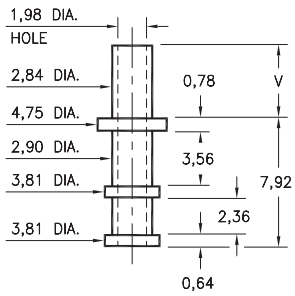
MALE PCB PINS

SOLDER TERMINAL TURRETS

2802

2802-X-00-XX-00-00-07-0

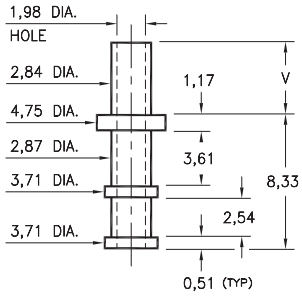
Swage mount in 3,0 hole



2804

2804-X-00-XX-00-00-07-0

Swage mount in 3,0 hole

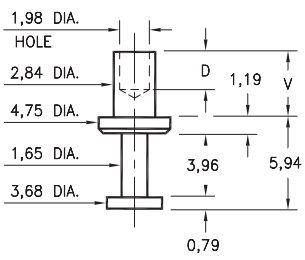


Basic Part Number	Board Thickness	Length V
280X-1	0,79	1,98
280X-2	1,57	2,77
280X-3	2,39	3,56
280X-4	3,18	4,34

2805

2805-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

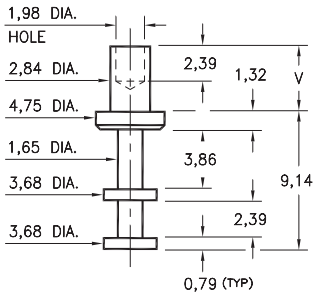


Basic Part Number	Board Thick-ness	Length V	Depth D
2805-1	0,79	1,88	1,73
2805-2	1,57	2,67	2,49
2805-3	2,39	3,43	2,49
2805-4	3,18	4,19	2,49

2801

2801-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

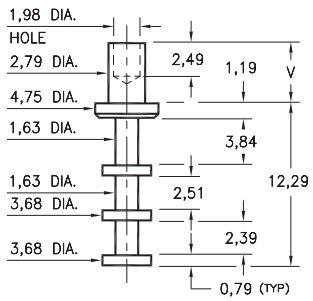


Basic Part Number	Board Thickness	Length V
2801-1	0,79	1,98
2801-2	1,57	2,77
2801-3	2,39	3,58
2801-4	3,18	4,37
2801-5	4,76	5,94

2806

2806-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

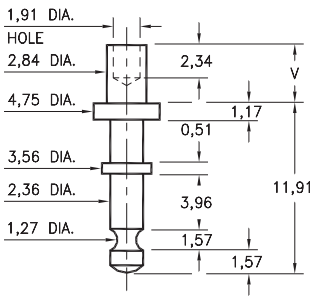


Basic Part Number	Board Thickness	Length V
2806-1	0,79	1,98
2806-2	1,57	2,77
2806-3	2,39	3,58
2806-4	3,18	4,37

2811

2811-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2811-1	0,79	1,91
2811-2	1,57	2,67
2811-3	2,39	3,43
2811-4	3,18	4,19

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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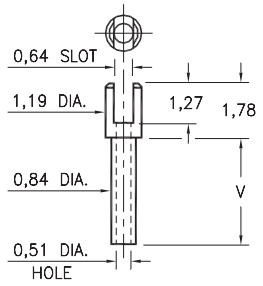
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2104

2104-X-01-XX-00-00-07-0

Swage mount in 0,91 hole

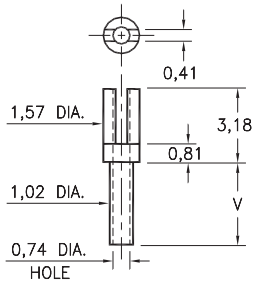


Basic Part Number	Board Thickness	Length V
2104-1	0,79	1,40
2104-2	1,57	2,18
2104-3	2,39	2,97
2104-4	3,18	3,76

2112

2112-X-01-XX-00-00-07-0

Swage mount in 1,09 hole

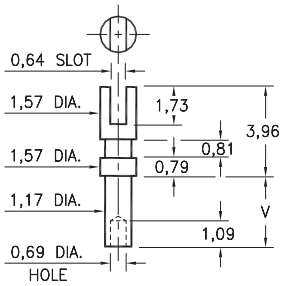


Basic Part Number	Board Thickness	Length V
2112-5	0,41	0,94
2112-1	0,79	1,35
2112-2	1,57	2,13
2112-3	2,39	2,92
2112-4	3,18	3,73

2105

2105-X-01-XX-00-00-07-0

Swage mount in 1,32 hole

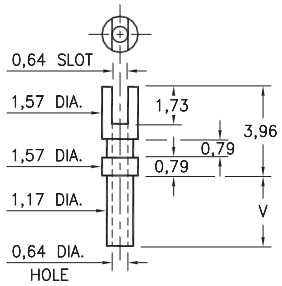


Basic Part Number	Board Thickness	Length V
2105-1	0,79	1,40
2105-2	1,57	2,18
2105-3	2,39	2,97
2105-4	3,18	3,78

2103

2103-X-01-XX-00-00-07-0

Swage mount in 1,32 hole

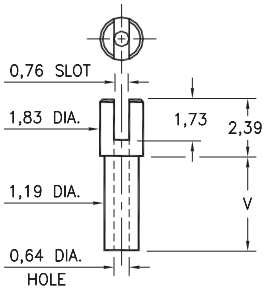


Basic Part Number	Board Thickness	Length V
2103-1	0,79	1,4
2103-2	1,57	2,18
2103-3	2,39	2,97
2103-4	3,18	3,78

2106

2106-X-01-XX-00-00-07-0

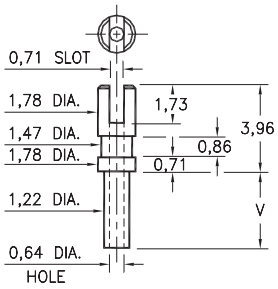
Swage mount in 1,32 hole



2107

2107-X-01-XX-00-00-07-0

Swage mount in 1,32 hole



Basic Part Number	Board Thickness	Length V
210X-1	0,79	1,30
210X-2	1,57	2,08
210X-3	2,39	2,87
210X-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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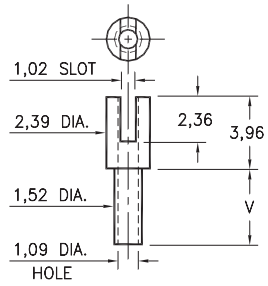
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2303

2303-X-01-XX-00-00-07-0

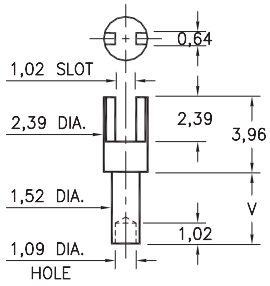
Swage mount in 1,63 hole



2323

2323-X-01-XX-00-00-07-0

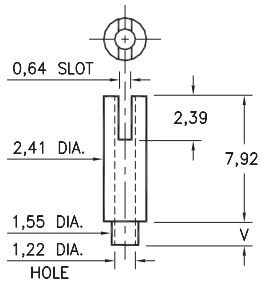
Swage mount in 1,63 hole



2322

2322-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

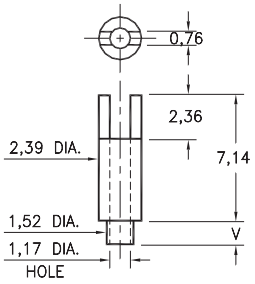


Basic Part Number	Board Thickness	Length V
23XX-1	0,79	1,35
23XX-2	1,57	2,13
23XX-3	2,39	2,92
23XX-4	3,18	3,73

2320

2320-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

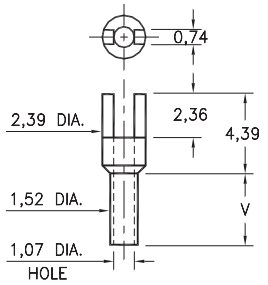


Basic Part Number	Board Thickness	Length V
2320-1	0,79	1,35
2320-2	1,57	2,13
2320-3	2,39	2,92

2328

2328-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

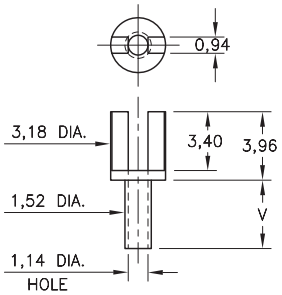


Basic Part Number	Board Thickness	Length V
2328-1	0,79	1,57
2328-2	1,57	2,39
2328-3	2,39	3,18
2328-4	3,18	3,96

2520

2520-X-01-XX-00-00-07-0

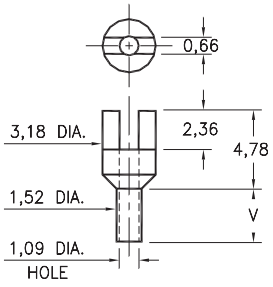
Swage mount in 1,63 hole



2517

2517-X-01-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
25XX-1	0,79	1,57
25XX-2	1,57	2,39
25XX-3	2,39	3,18
25XX-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

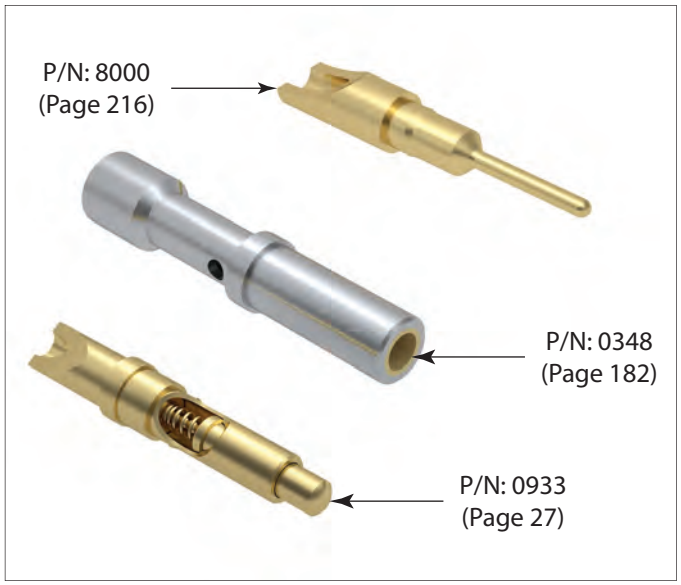
SPECIFY PIN FINISH:

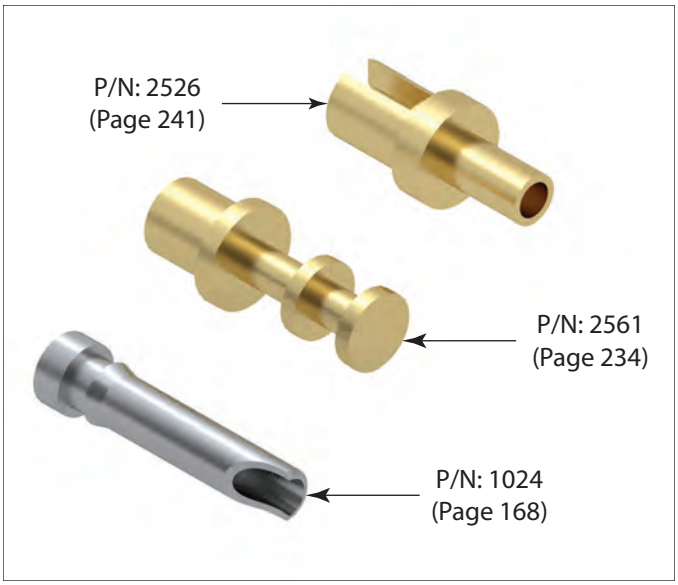
- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

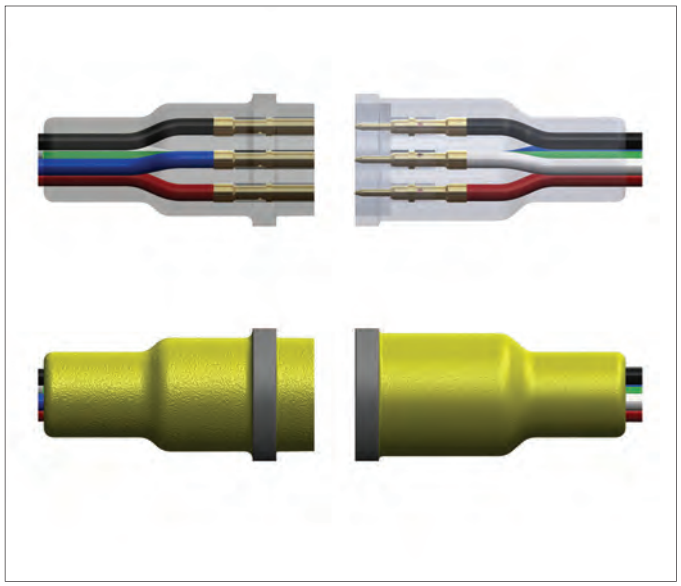
WIRE TERMINATION

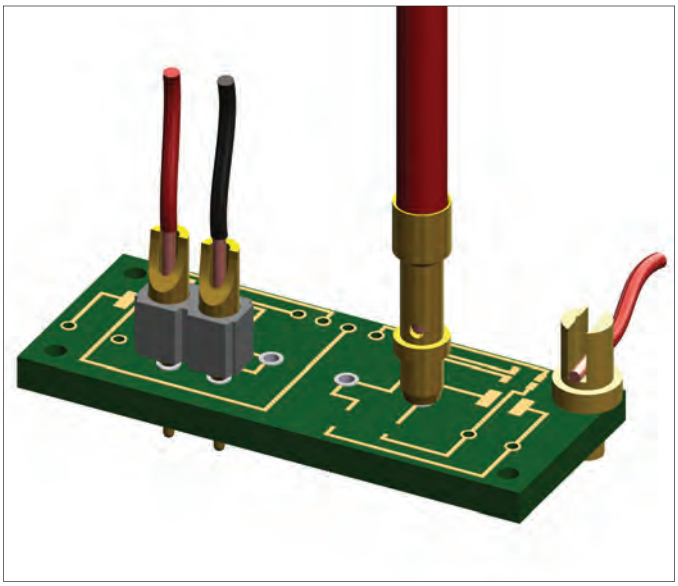
LOOSE PINS, RECEPTACLES AND SPRING PINS

Mill-Max manufactures many different types of pins and receptacles for terminating wires. There are solder cup and crimp barrel styles for terminating discrete wires to boards, making up cable assemblies or converting device wires to pluggable pins. We have slotted and turret styles for connecting power and ground wires or for test and jumper applications. Wrapost termination styles are also available for prototyping and test. Along with our wide selection of standard products, custom designs are available by contacting Mill-Max Technical Services.









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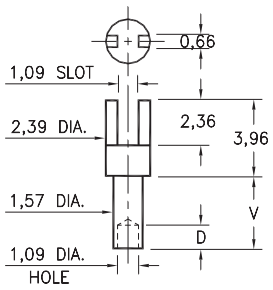
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2315

2315-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

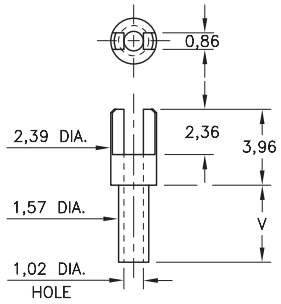


Basic Part Number	Board Thick-ness	Length V	Depth D
2315-1	0,79	1,14	1,02
2315-2	1,57	2,39	1,57
2315-3	2,39	3,18	1,57
2315-4	3,18	3,96	1,57

2302

2302-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

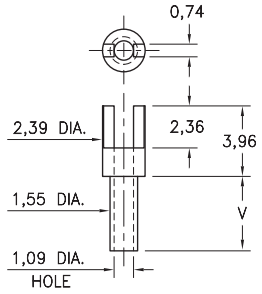


Basic Part Number	Board Thickness	Length V
2302-1	0,79	1,35
2302-2	1,57	2,13
2302-3	2,39	2,92
2302-4	3,18	3,73

2352

2352-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

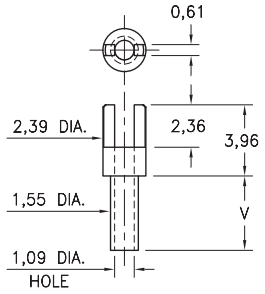


Basic Part Number	Board Thickness	Length V
2352-1	0,79	1,14
2352-2	1,57	2,39
2352-3	2,39	3,18
2352-4	3,18	3,96

2362

2362-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

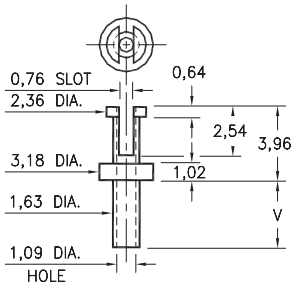


Basic Part Number	Board Thickness	Length V
2362-5	0,41	0,94
2362-1	0,79	1,35
2362-2	1,57	2,13
2362-3	2,39	2,92
2362-4	3,18	3,73

2507

2507-X-01-XX-00-00-07-0

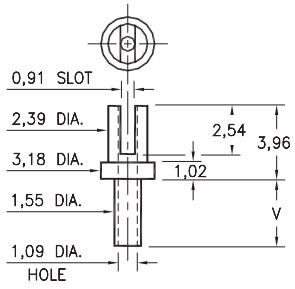
Swage mount in 1,70 hole



2526

2526-X-01-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
25XX-1	0,79	1,35
25XX-2	1,57	2,13
25XX-3	2,39	2,92
25XX-4	3,18	3,73

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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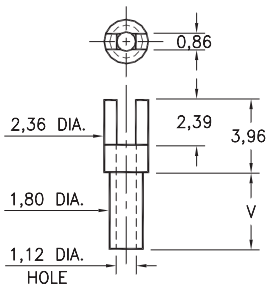
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2314

2314-X-01-XX-00-00-07-0

Swage mount in 1,93 hole

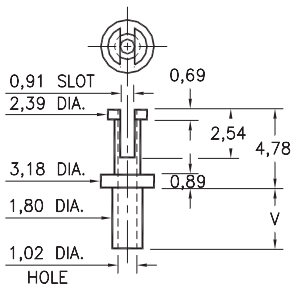


Basic Part Number	Board Thickness	Length V
2314-1	0,79	1,14
2314-2	1,57	2,39
2314-3	2,39	3,18
2314-4	3,18	3,96

2511

2511-X-01-XX-00-00-07-0

Swage mount in 1,93 hole

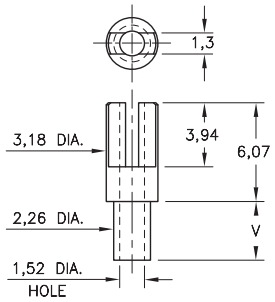


Basic Part Number	Board Thickness	Length V
2511-1	0,79	1,60
2511-2	1,57	2,39
2511-3	2,39	3,18
2511-4	3,18	3,96

2515

2515-X-01-XX-00-00-07-0

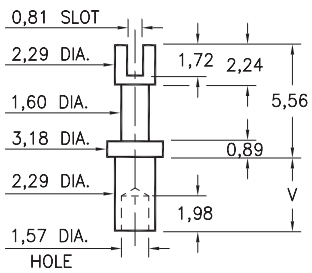
Swage mount in 2,39 hole



2516

2516-X-01-XX-00-00-07-0

Swage mount in 2,39 hole

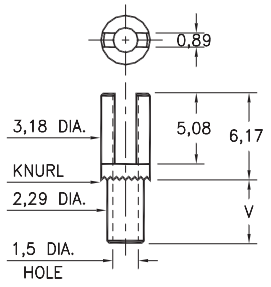


Basic Part Number	Board Thickness	Length V
251X-1	0,79	1,91
251X-2	1,57	2,67
251X-3	2,39	3,43
251X-4	3,18	3,73

2502

2502-X-01-XX-00-00-07-0

Swage mount in 2,39 hole



Basic Part Number	Board Thickness	Length V
2502-1	0,79	2,03
2502-2	1,57	2,82
2502-3	2,39	3,63
2502-4	3,18	4,42

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- ◆ **80** 5,08µm TIN OVER NICKEL (RoHS)
- ◆ **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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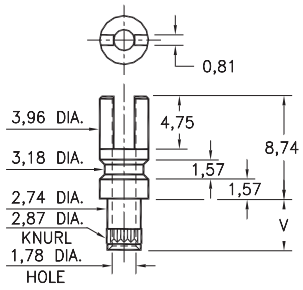
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2715

2715-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

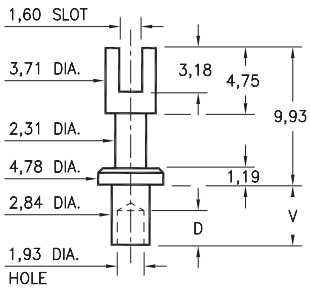


Basic Part Number	Board Thickness	Length V
2715-2	1,57	2,77
2715-3	2,39	3,58
2715-4	3,18	4,37

2809

2809-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

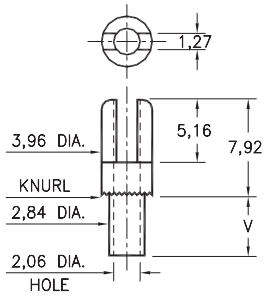


Basic Part Number	Board Thick-ness	Length V	Depth D
2809-1	0,79	1,98	1,73
2809-2	1,57	2,76	2,49
2809-3	2,39	3,58	2,49
2809-4	3,18	4,36	2,49

2701

2701-X-01-XX-00-00-07-0

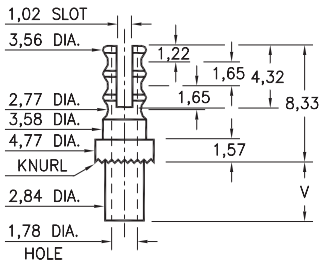
Swage mount in 2,95 hole



2808

2808-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

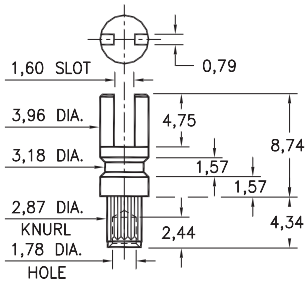


Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,91
2XXX-2	1,57	2,67
2XXX-3	2,39	3,43
2XXX-4	3,18	4,19

2762

2762-4-01-XX-00-00-07-0

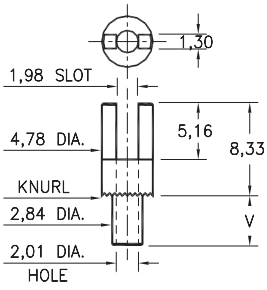
Swage mount in 2,95 hole
For a 3,18 thick board



2807

2807-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

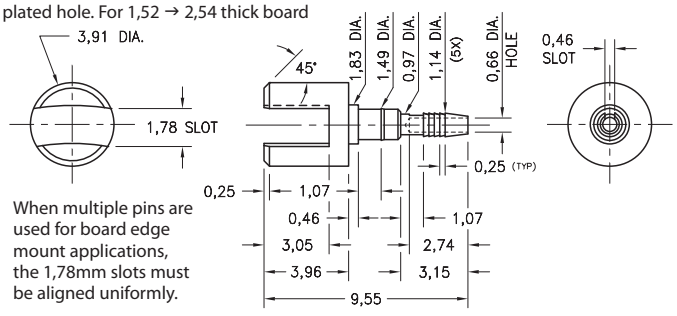


Basic Part Number	Board Thickness	Length V
2807-1	0,79	1,98
2807-2	1,57	2,77
2807-3	2,39	3,56
2807-4	3,18	4,34

3622

3622-0-32-15-00-00-03-0

Slotted compliant tail press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



When multiple pins are used for board edge mount applications, the 1,78mm slots must be aligned uniformly.

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 07 - 0

BASIC PART #

Part #3622 plating ONLY

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **15** 0,25µm GOLD OVER NICKEL (RoHS)
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

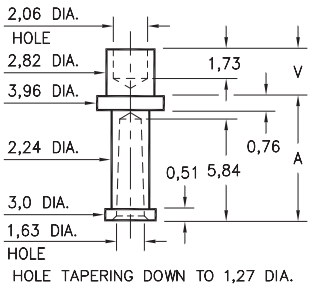
MALE PCB PINS

SOLDER TERMINALS VARIOUS TYPES

2709

2709-X-07-XX-00-00-07-0

Swage mount in 2,95 hole

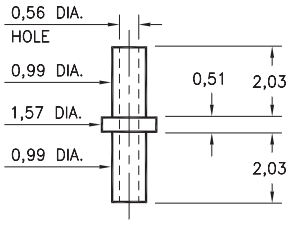


Basic Part Number	Board Thick-ness	Length V	Length A
2709-2	1,57	2,77	7,14
2709-3	2,39	3,58	6,35

2115

2115-2-00-XX-00-00-07-0

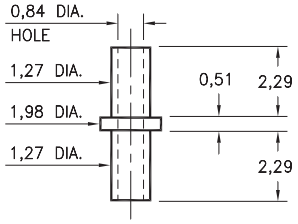
Swage mount in 1,09 hole
For a 1,57 thick board



2326

2326-2-00-XX-00-00-07-0

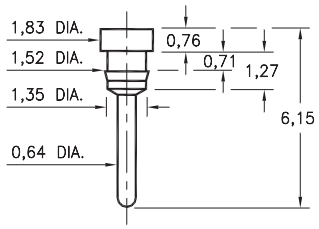
Swage mount in 1,40 hole
For a 1,57 thick board



8831

8831-0-00-XX-00-00-03-0

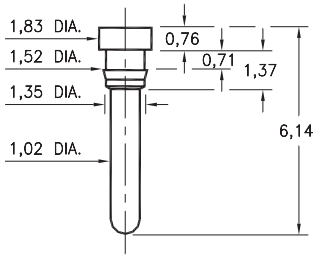
Press-fit in 1,45 mounting hole



8835

8835-0-00-XX-00-00-03-0

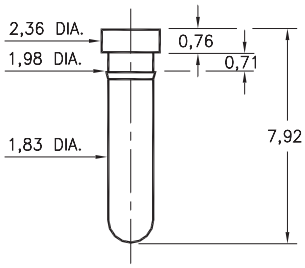
Press-fit in 1,45 mounting hole



8836

8836-0-00-XX-00-00-03-0

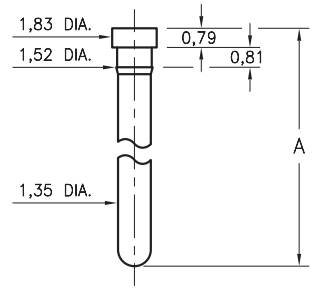
Press-fit in 1,91 mounting hole



0912/7912

X912-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

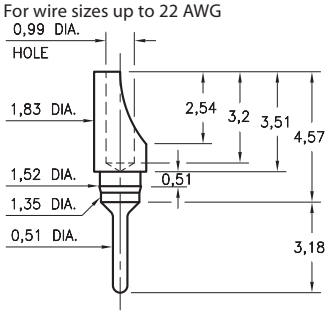


Basic Part Number	Pin Length A
0912-0	7,95
7912-0	12,95

3080

3080-0-01-XX-00-00-03-0

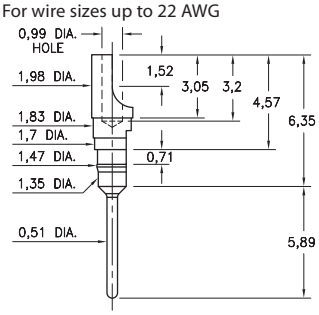
Press-fit in 1,45 mounting hole
For wire sizes up to 22 AWG



3180

3180-2-01-XX-00-00-03-0

Press-fit in 1,4 mounting hole
For wire sizes up to 22 AWG



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
Diameters: ±0,051
Angles: ±2°

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

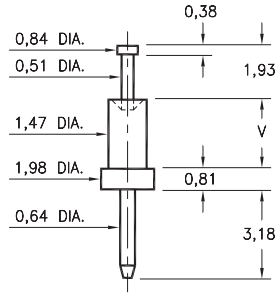
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2318

2318-X-00-XX-00-00-07-0

Swage mount in 1,57 hole

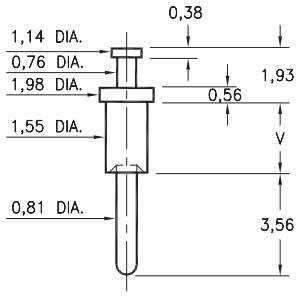


Basic Part Number	Board Thickness	Length V
2318-1	0,79	1,30
2318-2	1,57	2,08
2318-3	2,39	2,87

2309

2309-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

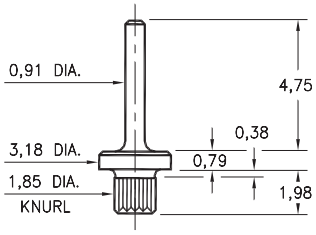


Basic Part Number	Board Thickness	Length V
2309-1	0,79	1,37
2309-2	1,57	2,13
2309-3	2,39	2,92
2309-4	3,18	3,73

2514

2514-2-00-XX-00-00-07-0

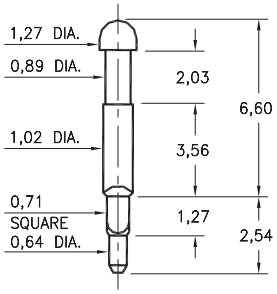
Press-fit in 1,78 mounting hole



8602

8602-1-00-XX-00-00-07-0

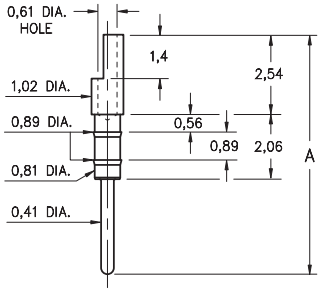
Square press-fit in 0,81 plated through-hole



3050

3050-X-01-XX-00-00-03-0

Press-fit in 0,81 mounting hole
For wire sizes up to 26 AWG



Basic Part Number	Pin Length A
3050-0	7,7
3050-3	9,55

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

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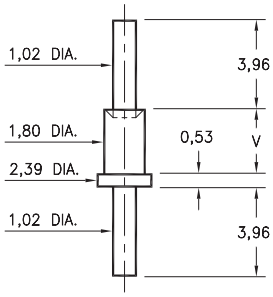
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2319

2319-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

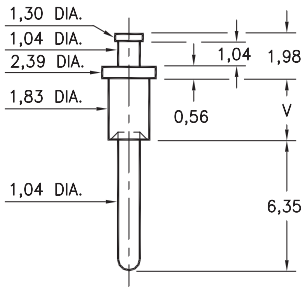


Basic Part Number	Board Thickness	Length V
2319-1	0,79	1,30
2319-2	1,57	2,08
2319-3	2,39	2,87

2313

2313-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

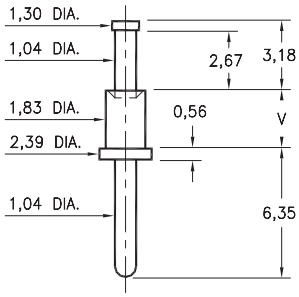


Basic Part Number	Board Thickness	Length V
2313-1	0,79	1,30
2313-2	1,57	2,13
2313-3	2,39	2,87
2313-4	3,18	3,68

2321

2321-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

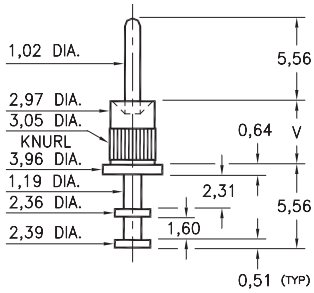


Basic Part Number	Board Thickness	Length V
2321-1	0,79	1,30
2321-2	1,57	2,08
2321-3	2,39	2,87
2321-4	3,18	3,68

2706

2706-X-00-XX-00-00-07-0

Swage mount in 3,05 hole

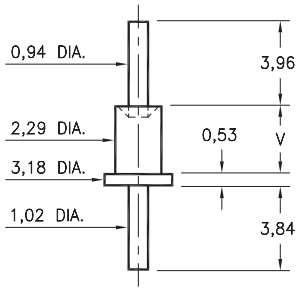


Basic Part Number	Board Thickness	Length V
2706-1	0,79	1,60
2706-2	1,57	2,36
2706-3	2,39	3,18
2706-4	3,18	3,96

2530

2530-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

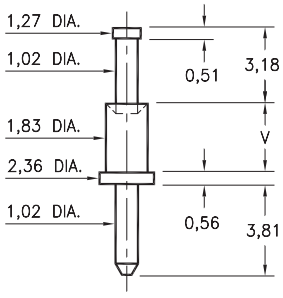


Basic Part Number	Board Thickness	Length V
2530-2	1,57	2,39
2530-3	2,39	3,18
2530-4	3,18	3,96

3156

3156-X-00-XX-00-00-08-0

Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
3156-1	0,79	1,30
3156-2	1,57	2,08
3156-3	2,39	2,87
3156-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2 °

RoHS-2 2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- **01** 5,08µm TIN/LEAD OVER NICKEL
- **80** 5,08µm TIN OVER NICKEL (RoHS)
- **44** 7,62µm SILVER OVER COPPER (RoHS)
- **50** 7,62µm ELECTRO-SOLDER (60/40 SnPb)

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

CUSTOM PRODUCT WORKSHEET

PHOTOCOPY THIS PAGE AND FAX, SCAN OR E-MAIL TO MILL-MAX FOR A PROMPT QUOTATION

Mill-Max Mfg. Corp., P.O. Box 300, 190 Pine Hollow Road, Oyster Bay, NY 11771-0300 www.mill-max.com

NAME: _____ **TITLE:** _____

COMPANY: _____ **DATE:** _____

ADDRESS: _____ **PHONE:** _____

_____ **EMAIL:** _____

QUANTITIES TO QUOTE: _____

SPECIFICATIONS OF MACHINED PINS, TERMINALS, RECEPTACLE SHELLS, INSULATORS, etc.

SIMILAR MILL-MAX PART #: _____

PIN MATERIAL:
- ☐ BRASS
- ☐ PHOSPHOR BRONZE
- ☐ TELLURIUM COPPER

INSULATOR MATERIAL:
- ☐ FR-4 EPOXY
- ☐ HIGH TEMP. THERMOPLASTIC

(Check available stock sizes on page 263)

PIN FINISH:
- ☐ TIN over NICKEL
- ☐ TIN/LEAD over NICKEL
- ☐ _____ µm GOLD over NICKEL
- ☐ SILVER over COPPER
- ☐ OTHER: _____

ADDITIONAL SPECIFICATIONS FOR RECEPTACLE ONLY:

SIZE OF MATING PIN OR COMPONENT LEAD: _____
(round/square/rectangular)

LENGTH OF MATING PIN/LEAD: _____

USE MILL-MAX CONTACT TYPE#: _____
(See page 248 for selector chart)

REQUIRED INSERTION/ EXTRACTION FORCES: ☐ LOW ☐ MEDIUM ☐ HIGH

CONTACT FINISH:
- ☐ TIN over NICKEL
- ☐ _____ µm GOLD over NICKEL
- ☐ OTHER: _____

STANDARD MACHINING TOLERANCES ARE ± 0,051 FOR DIAMETERS, ± 0,13 FOR LENGTHS. IF TIGHTER TOLERANCES ARE REQUIRED, PLEASE SPECIFIY CRITICAL DIMENSIONS ON SKETCH BELOW.

ARE THERE ANY UNUSUAL REQUIREMENTS SUCH AS HIGH OPERATING TEMPERATURE OR CURRENT RATING? _____

_____

IF YOU NEED ASSISTANCE, PLEASE CALL MILL-MAX AND ASK FOR AN APPLICATIONS ENGINEER

GENERAL CONTACT INFO

THE "MULTI-FINGER" CONTACT

Mill-Max makes pin receptacles by press-fitting a "multi-finger" spring contact into a machined shell. A selection of over 39 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from 0,20 to 2,59 diameter, as well as rectangular component leads and square wraposts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliancy δ	Contact Length	Number of Fingers	Contact Material	Current Rating (For 10°C ΔT)
No Alternate	#04	0,20	0,33	0,08	1,35	3	BeCu	2A
No Alternate	#10	0,30	0,43	0,05	1,52	6		
A	#09	0,38	0,46	0,05	1,30	3		3A
	#11		0,51	0,08	1,91			
	#21		0,56	0,10				
	#31	0,46	0,58		1,57	4		
	#05	0,38	0,56		1,91	3		
	#25		0,51	0,08			BeNi	
B	#12		0,56	0,08	1,57	4	BeCu	
	#22			0,13		6		
C	#30		0,64		2,11	4		
	#38			0,10			BeNi	
	#32		0,66	0,23		6	BeCu	
	#35			0,20				
	#43							
K	#15	0,51	0,81	0,13	2,13			4.5A
	#19			0,08			BeNi	
D	#06	0,56		0,18	2,87	4	BeCu	
	#26			0,13			BeNi	
	#16		0,86	0,15	2,11	6	BeCu	
	#47	0,64	0,94	0,28				
	#56			0,23			BeNi	
L	#18	0,94	1,09	0,10	1,57		BeCu	8A
	#58			0,08			BeNi	
E	#36	0,56	1,07	0,56	3,05	4	BeCu	
	#34	0,81	1,17	0,25	3,05			
	#49			0,15	3,18			
	#24			0,23	3,05		BeNi	
F	#02	1,02	1,27	0,15	2,24	6	BeCu	
	#28	1,07	1,32	0,13				
J	#42	1,49	1,60	0,10	3,81	4		20A
	#03	1,02	1,52	0,25				11.2A
G	#23	1,14	1,65	0,20	2,54	6		
	#13	1,22	1,63	0,25	3,23	4		
	#33			0,20			BeNi	
H	#07	1,65	2,08	0,33	3,81		BeCu	15A
	#27			0,30			BeNi	
	#14		2,16	0,36			BeCu	
No Alternate	#08	2,13	2,59	0,28	3,10	6		18A
No Alternate	#48	0,94	1,09	TBD	2,34	4		20A

GENERAL CONTACT INFO

CONTACT SPECIFICATIONS

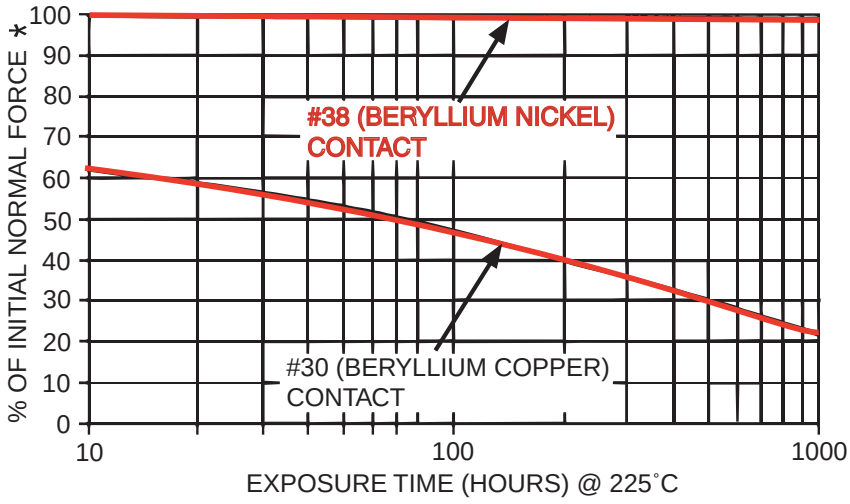
The Mill-Max "multi-finger" contact exhibits wide conformity, eg. the ability of any single contact to accept a broad range of round pins as well as rectangular or square leads.
The insertion/extraction force characteristics that follow were derived using 0,76µm gold-plated contacts and bullet-shaped polished steel, gauge pins. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **visit www.mill-max.com to obtain complimentary samples of a receptacle assembly for your evaluation.**

COMPLIANCY (δ)

The compliancy factor (δ) describes the re-configured operating range after inserting the largest permissible mating pin.
For example: the # 34 contact has an initial operating range from 0,81 to 1,17 diameter pins. After insertion of a 1,17 pin, the contact is sized, and the minimum pin acceptance becomes 1,17 - 0,25 = 0,91. Thus, the new operating range becomes 0,91 to 1,17.

CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max Mfg. contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.

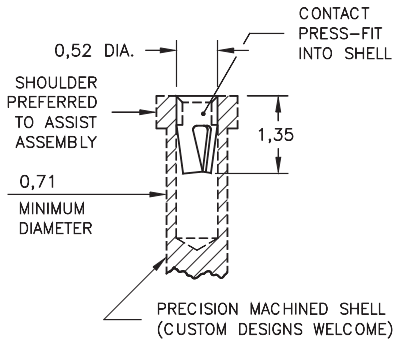


CONTACT DATA

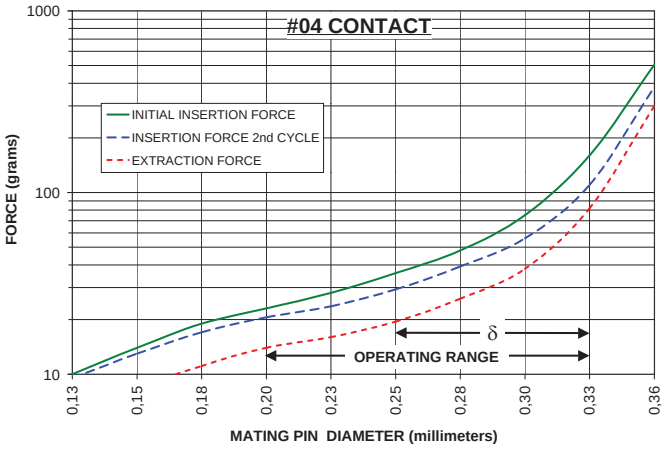
INSERTION / EXTRACTION FORCE GRAPHS

#04 CONTACT

FOR 0,20 - 0,33 DIAMETER PINS (δ = 0,08)
3-FINGER (See page 248)

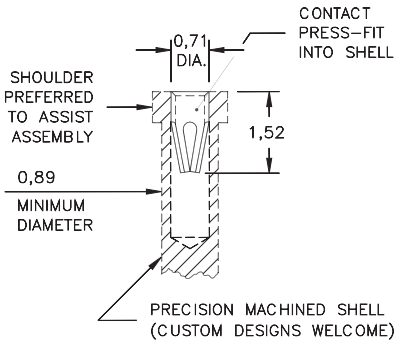


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

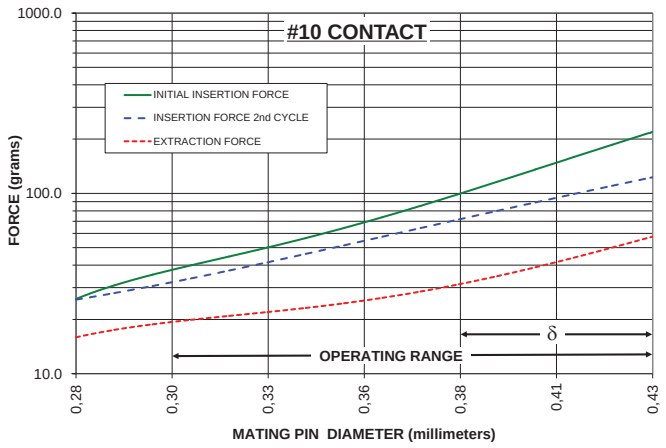


#10 CONTACT

FOR 0,30 - 0,43 DIAMETER PINS (δ = 0,05)
6-FINGER (See page 248)

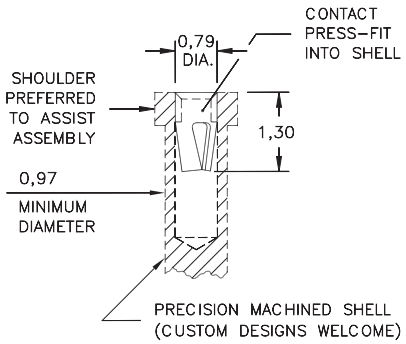


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

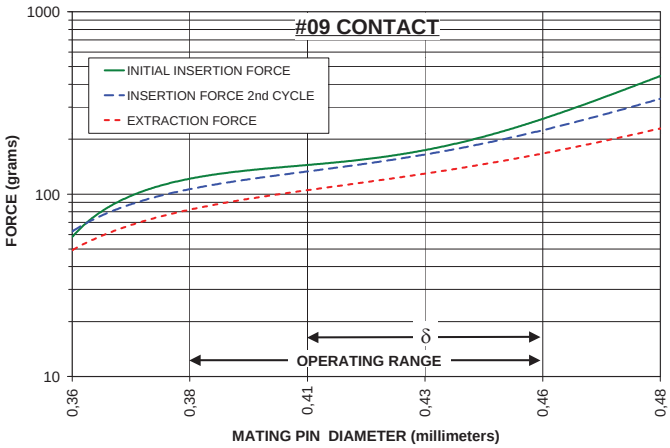


#09 CONTACT

FOR 0,38 - 0,46 DIAMETER PINS (δ = 0,05)
3-FINGER, GROUP A (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

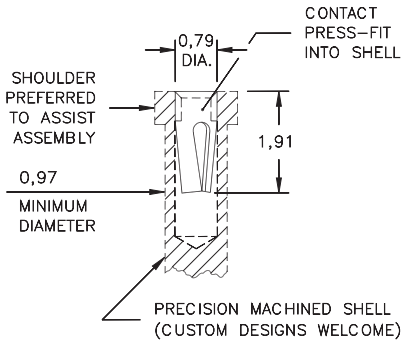
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

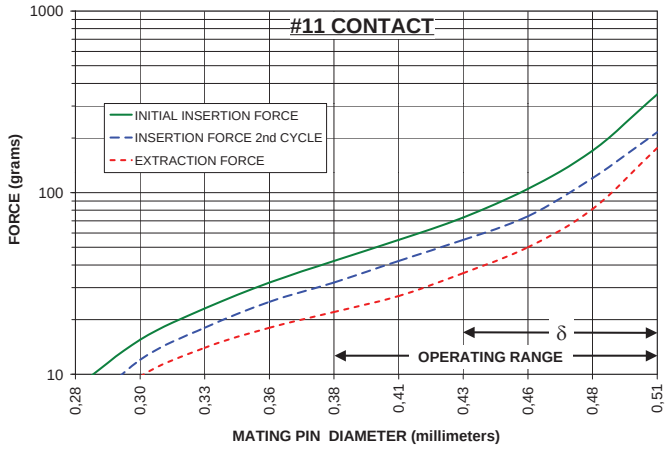
INSERTION / EXTRACTION FORCE GRAPHS

#11 CONTACT

FOR 0,38 - 0,51 DIAMETER PINS (δ = 0,08)
3-FINGER, GROUP A (See page 248)

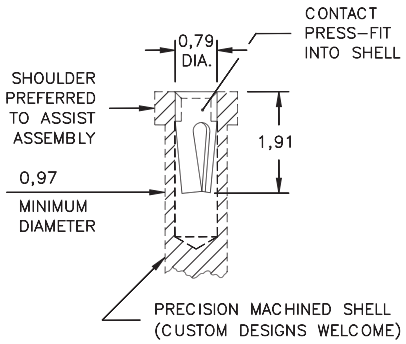


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

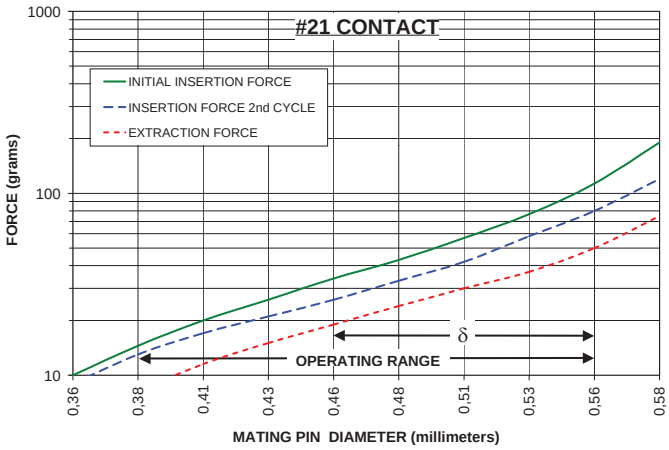


#21 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS (δ = 0,10)
3-FINGER, GROUP A (See page 248)

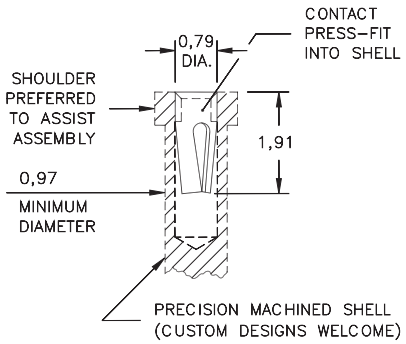


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

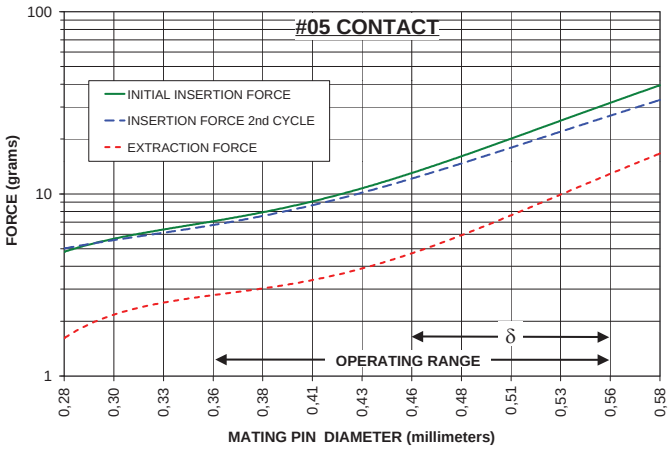


#05 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS (δ = 0,10)
3-FINGER, GROUP A (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

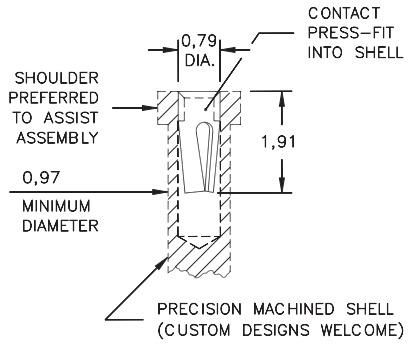
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

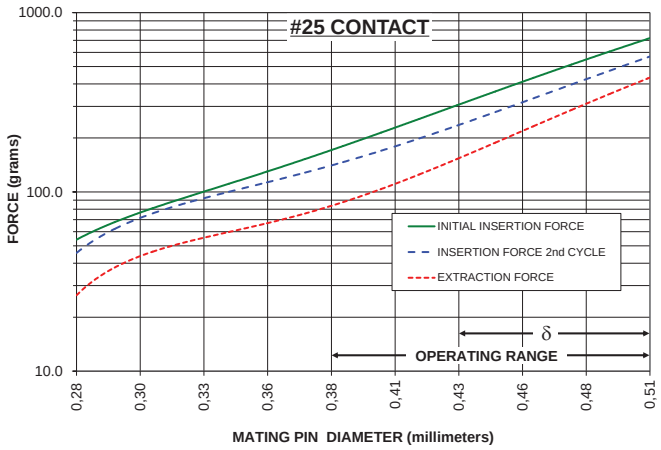
INSERTION / EXTRACTION FORCE GRAPHS

#25 CONTACT

FOR 0,38 - 0,51 DIAMETER PINS (δ = 0,08)
3-FINGER, GROUP A (See page 248)

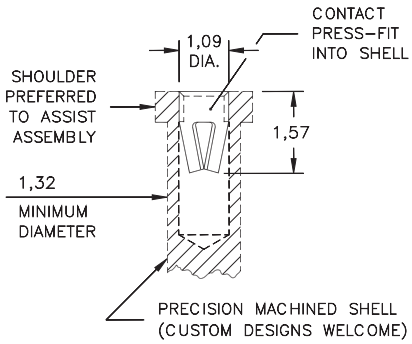


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

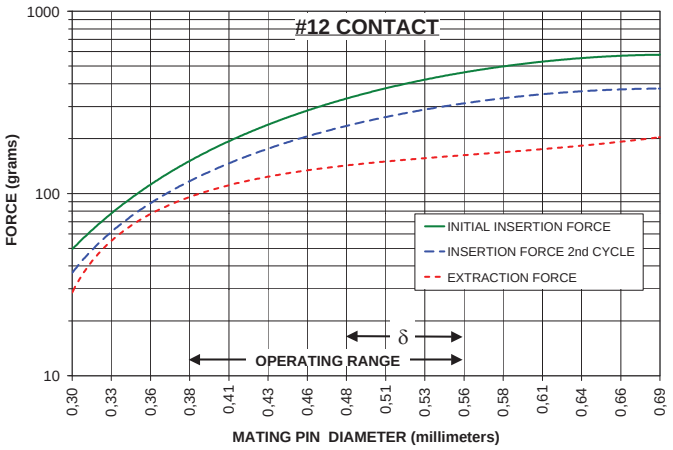


#12 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS (δ = 0,08)
4-FINGER, GROUP B (See page 248)

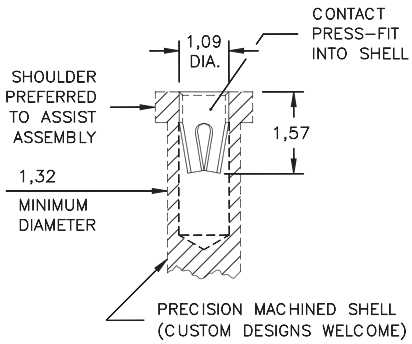


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

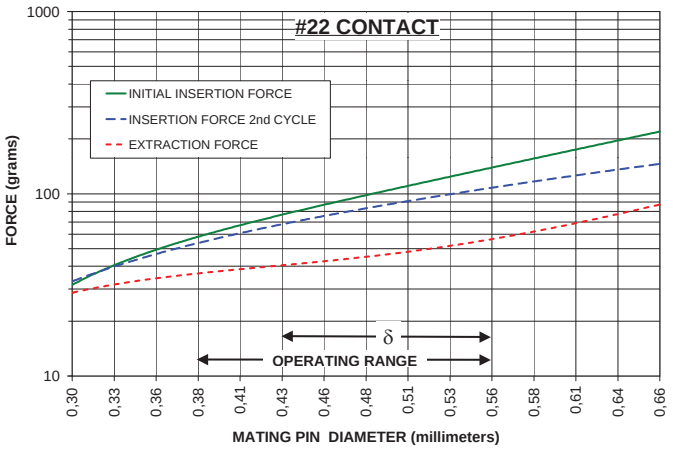


#22 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS (δ = 0,13)
6-FINGER, GROUP B (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

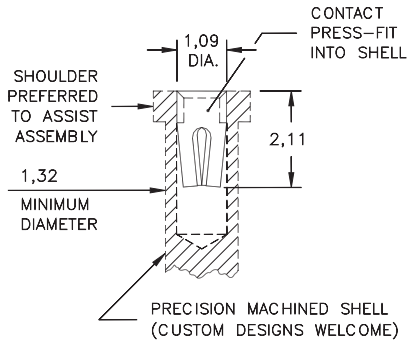
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

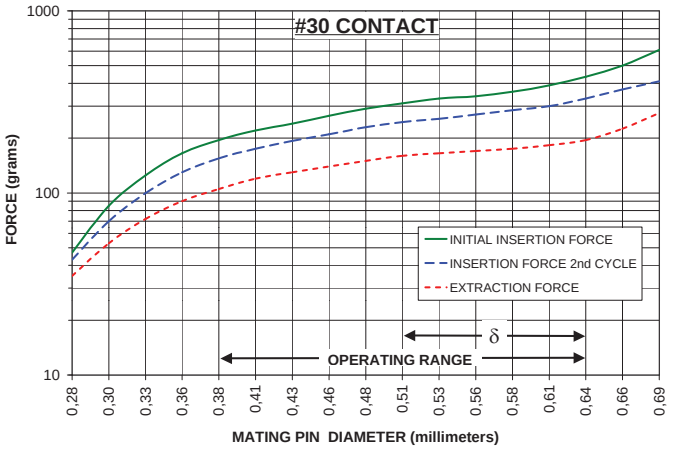
INSERTION / EXTRACTION FORCE GRAPHS

#30 CONTACT

FOR 0,38 - 0,64 DIAMETER PINS (δ = 0,13)
4-FINGER, GROUP C (See page 248)

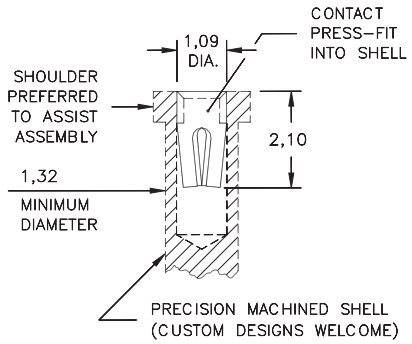


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

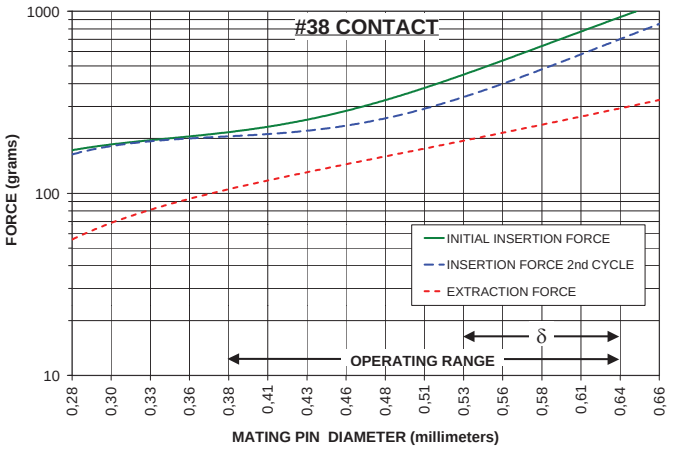


#38 CONTACT

FOR 0,38 - 0,64 DIAMETER PINS (δ = 0,10)
4-FINGER, GROUP C (See page 248)

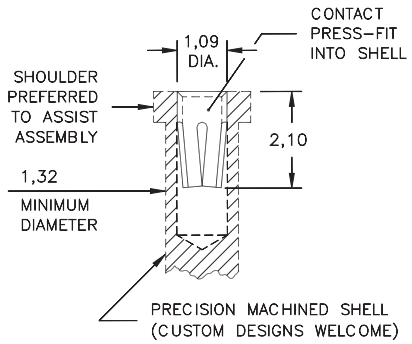


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

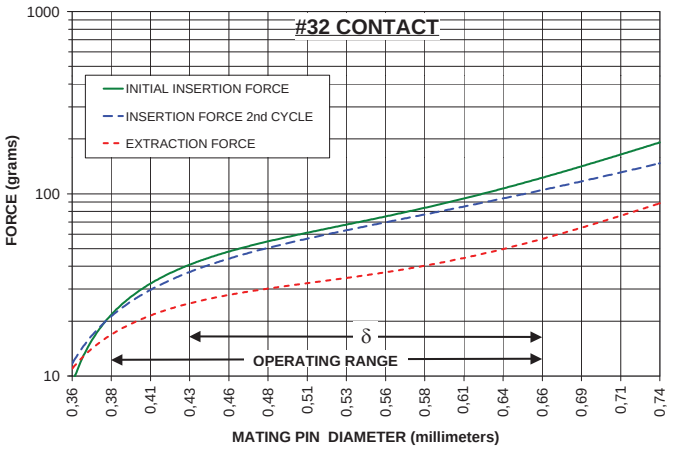


#32 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS (δ = 0,23)
6-FINGER, GROUP C (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

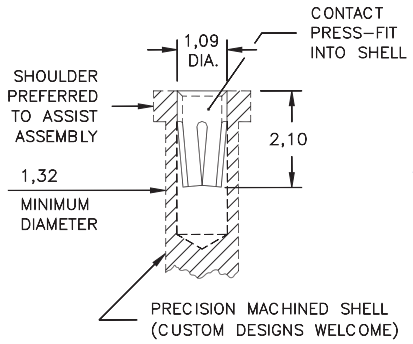
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

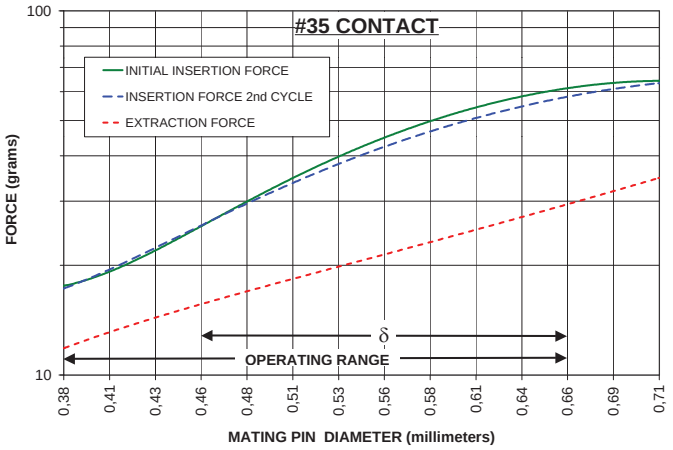
INSERTION / EXTRACTION FORCE GRAPHS

#35 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS (δ = 0,20)
6-FINGER, GROUP C (See page 248)

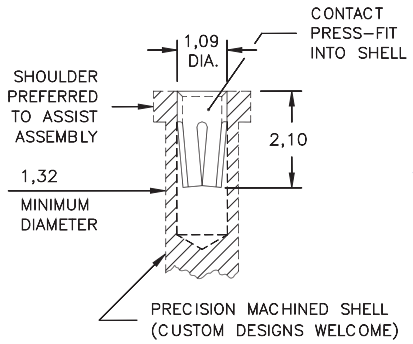


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

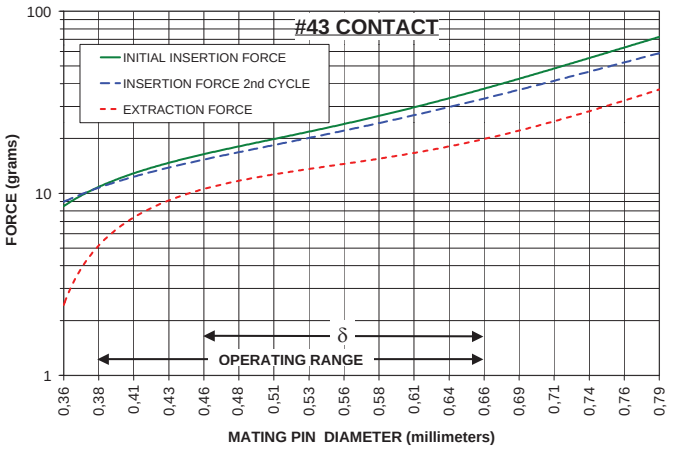


#43 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS (δ = 0,20)
6-FINGER, GROUP C (See page 248)

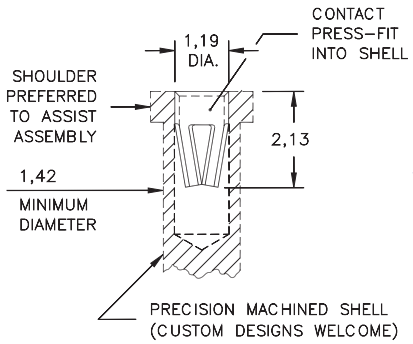


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

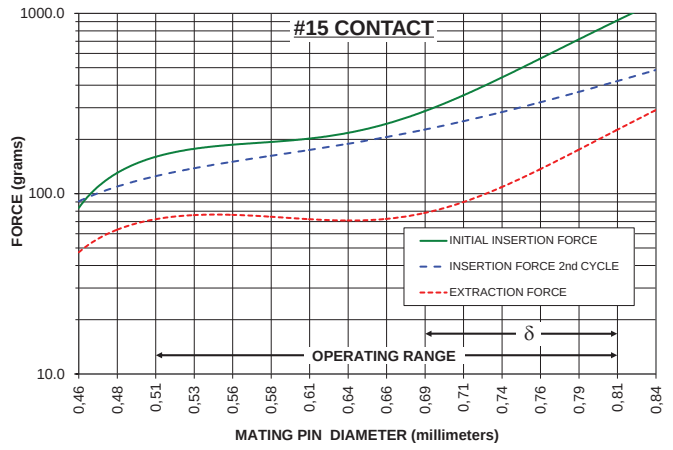


#15 CONTACT

FOR 0,51 - 0,81 DIAMETER PINS (δ = 0,13)
6-FINGER, GROUP K (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

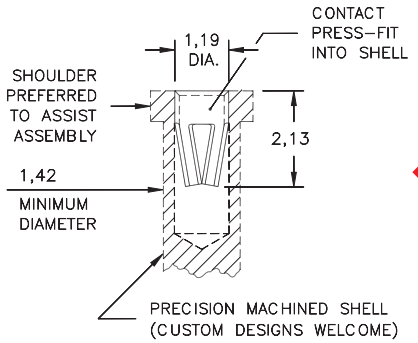
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

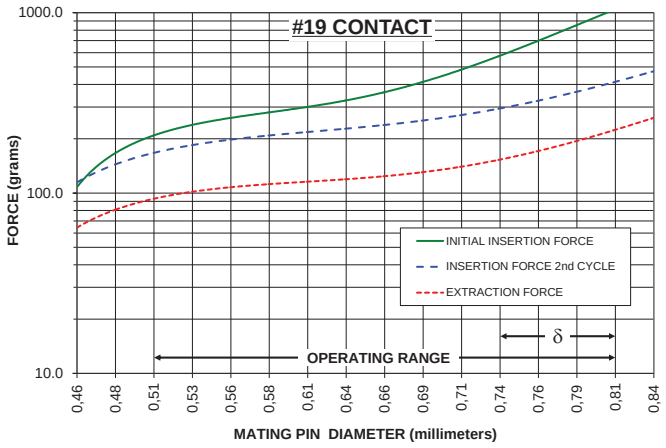
INSERTION / EXTRACTION FORCE GRAPHS

#19 CONTACT

FOR 0,51 - 0,81 DIAMETER PINS (δ = 0,08)
6-FINGER, GROUP K (See page 248)

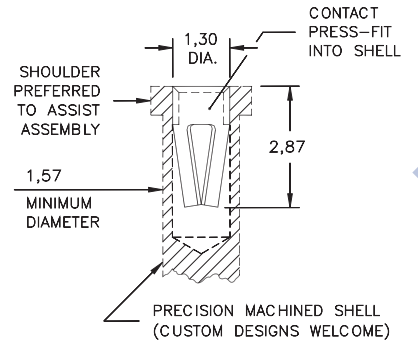


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

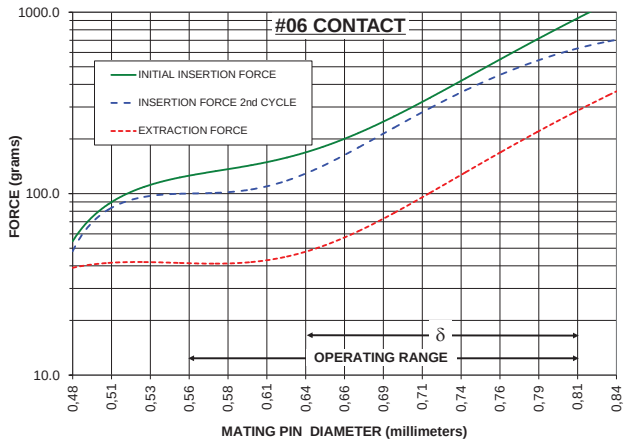


#06 CONTACT

FOR 0,56 - 0,81 DIAMETER PINS (δ = 0,18)
4-FINGER, GROUP D (See page 248)

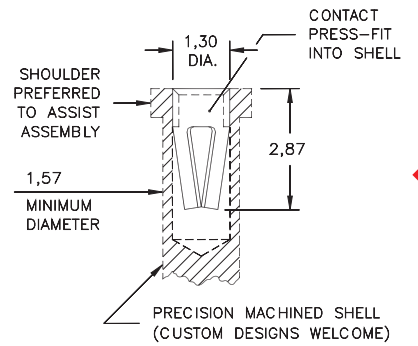


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

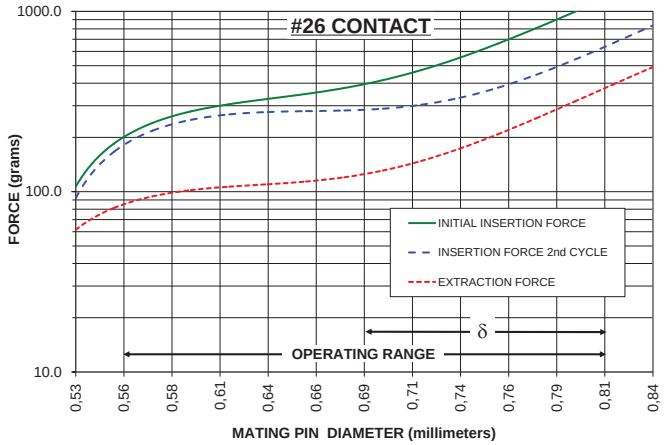


#26 CONTACT

FOR 0,56 - 0,81 DIAMETER PINS (δ = 0,13)
4-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

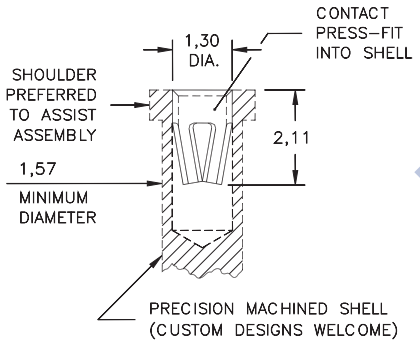
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

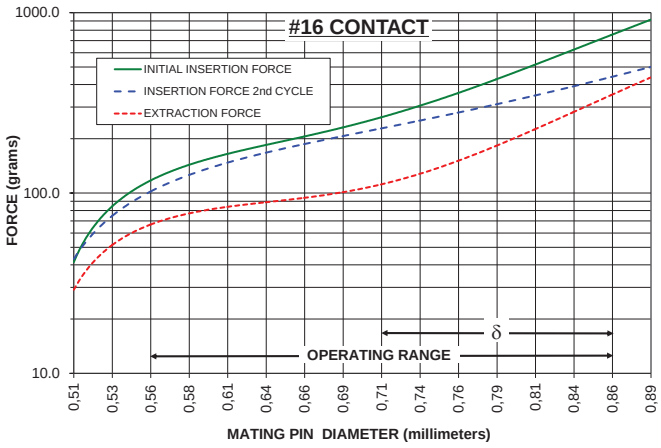
INSERTION / EXTRACTION FORCE GRAPHS

#16 CONTACT

FOR 0,56 - 0,86 DIA. & 0,64 SQ. (δ = 0,15)
6-FINGER, GROUP D (See page 248)

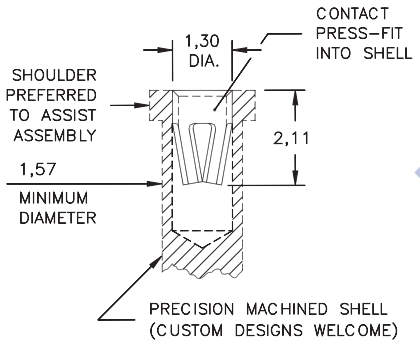


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

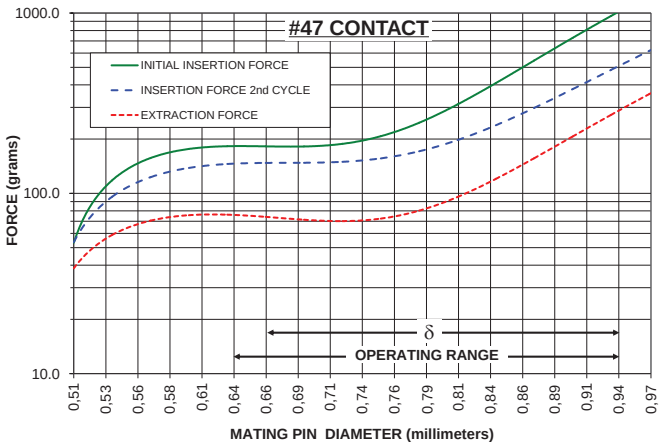


#47 CONTACT

FOR 0,64 - 0,94 DIA. & 0,64 SQ. (δ = 0,28)
6-FINGER, GROUP D (See page 248)

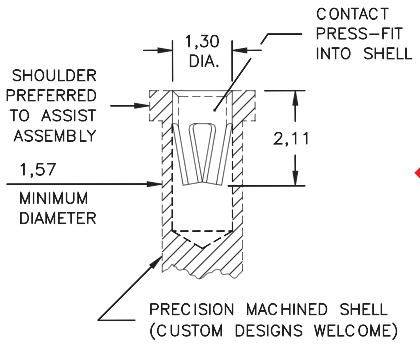


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

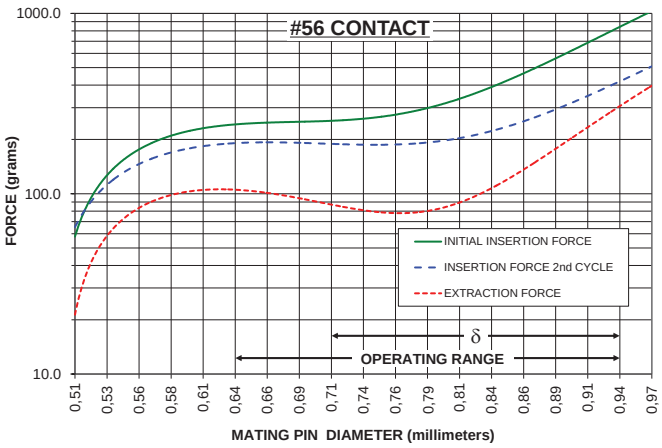


#56 CONTACT

FOR 0,64 - 0,94 DIA. & 0,64 SQ. (δ = 0,23)
6-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

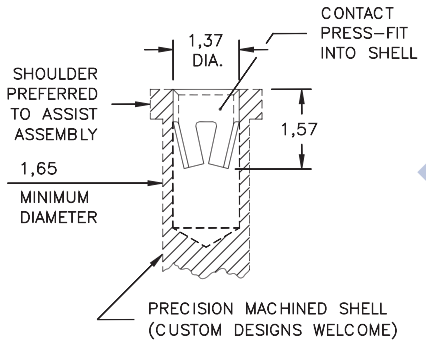
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

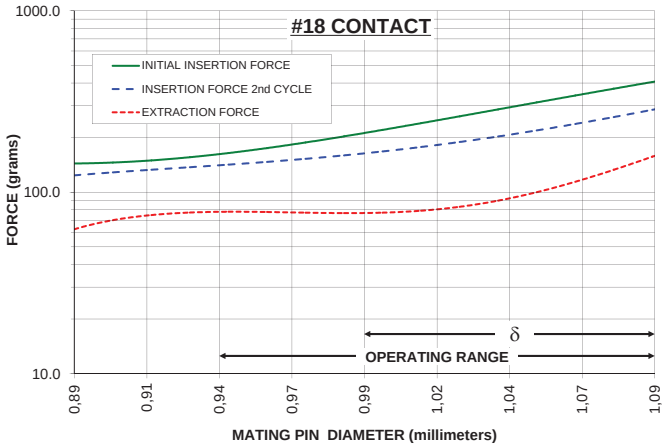
INSERTION / EXTRACTION FORCE GRAPHS

#18 CONTACT

FOR 0,94 - 1,09 DIAMETER PINS (δ = 0,08)
6-FINGER, GROUP L (See page 248)

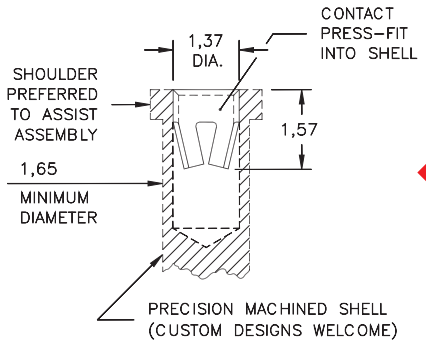


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

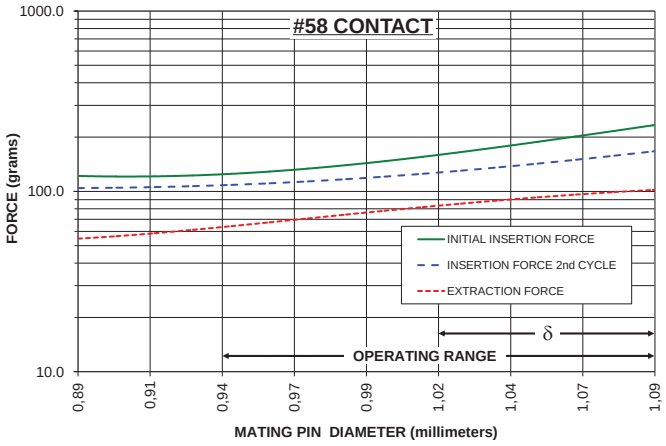


#58 CONTACT

FOR 0,94 - 1,09 DIAMETER PINS (δ = 0,08)
6-FINGER, GROUP L (See page 248)

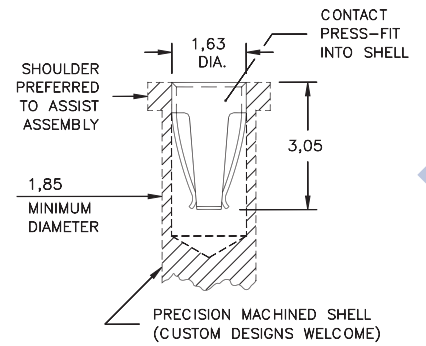


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

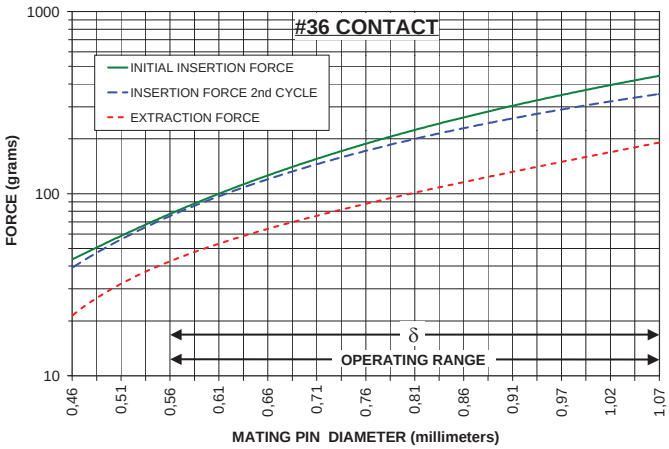


#36 CONTACT

FOR 0,56 - 1,07 DIAMETER PINS (δ = 0,56)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

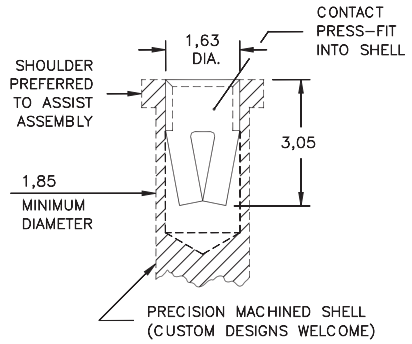
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

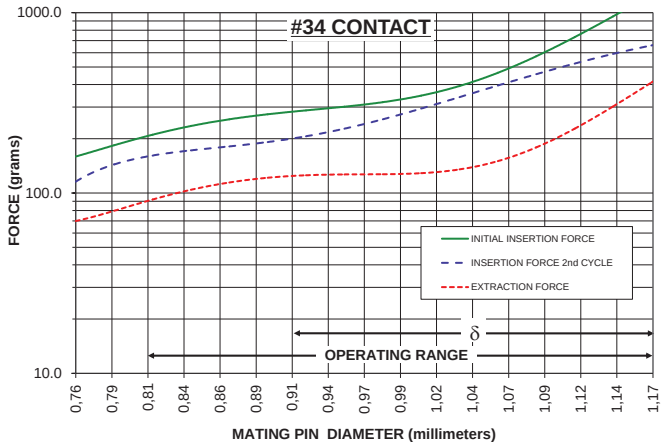
INSERTION / EXTRACTION FORCE GRAPHS

#34 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS (δ = 0,25)
4-FINGER, GROUP E (See page 248)

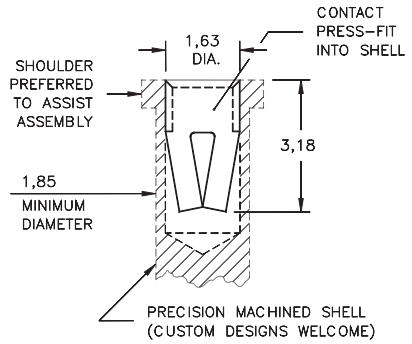


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

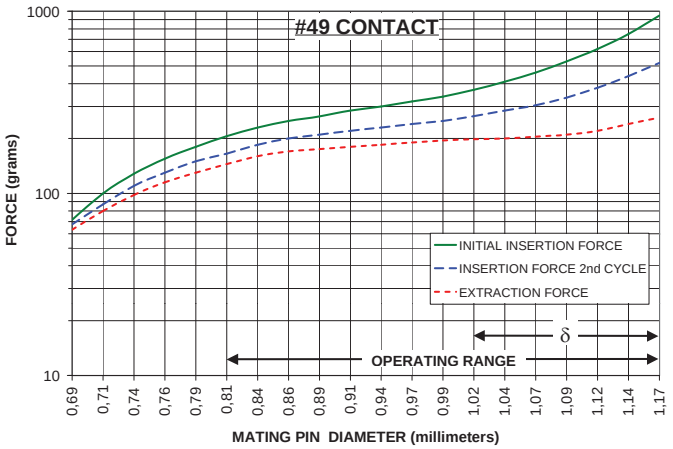


#49 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS (δ = 0,15)
4-FINGER, GROUP E (See page 248)

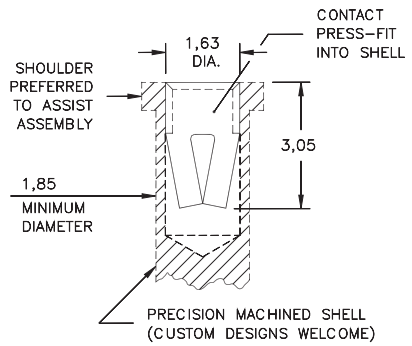


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

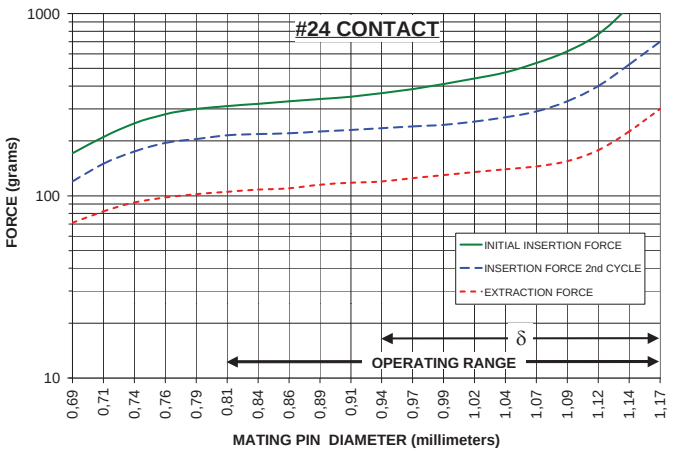


#24 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS (δ = 0,23)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

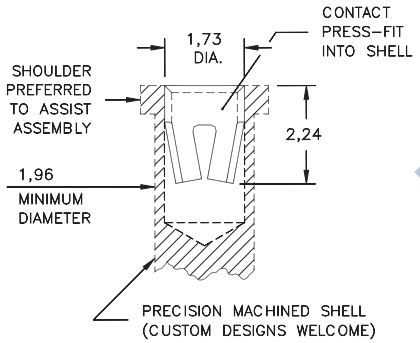
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

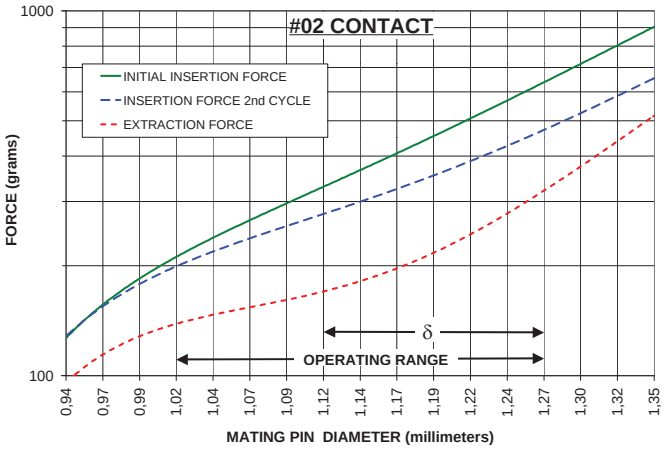
INSERTION / EXTRACTION FORCE GRAPHS

#02 CONTACT

FOR 1,02 - 1,27 DIAMETER PINS (δ = 0,15)
6-FINGER, GROUP F (See page 248)

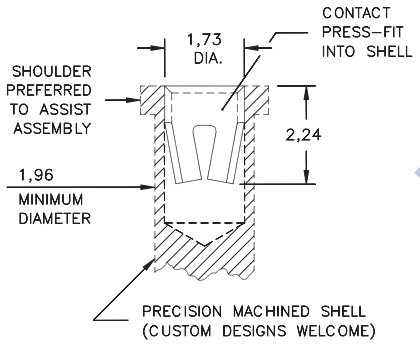


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

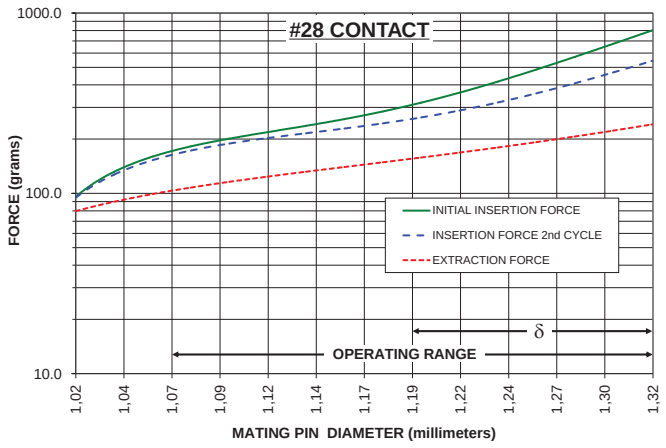


#28 CONTACT

FOR 1,07 - 1,32 DIAMETER PINS (δ = 0,13)
6-FINGER, GROUP F (See page 248)

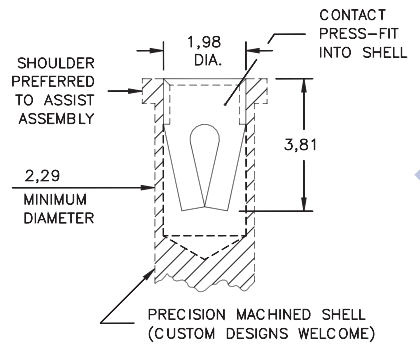


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

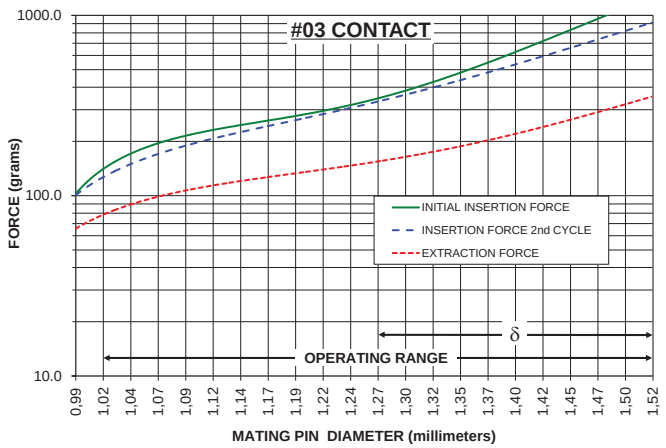


#03 CONTACT

FOR 1,02 - 1,52 DIAMETER PINS (δ = 0,25)
4-FINGER, GROUP J (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

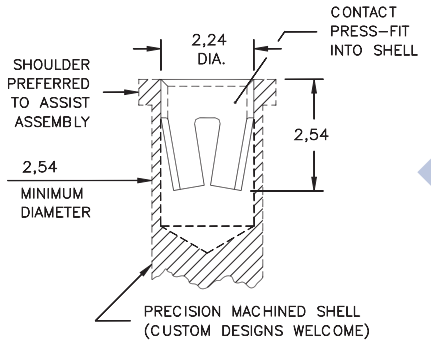
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

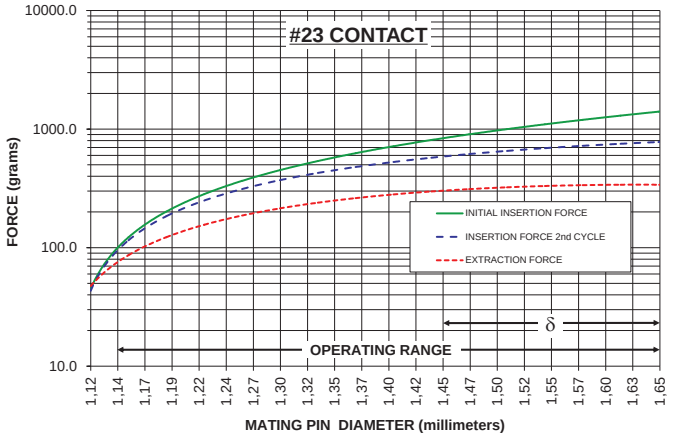
INSERTION / EXTRACTION FORCE GRAPHS

#23 CONTACT

FOR 1,14 - 1,65 DIAMETER PINS (δ = 0,20)
6-FINGER, GROUP G (See page 248)

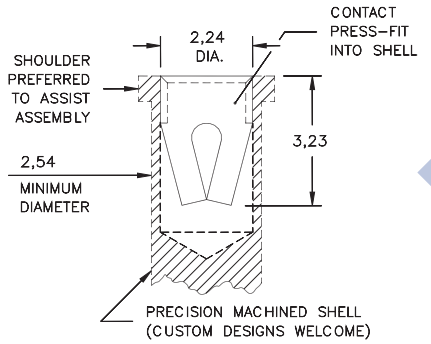


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

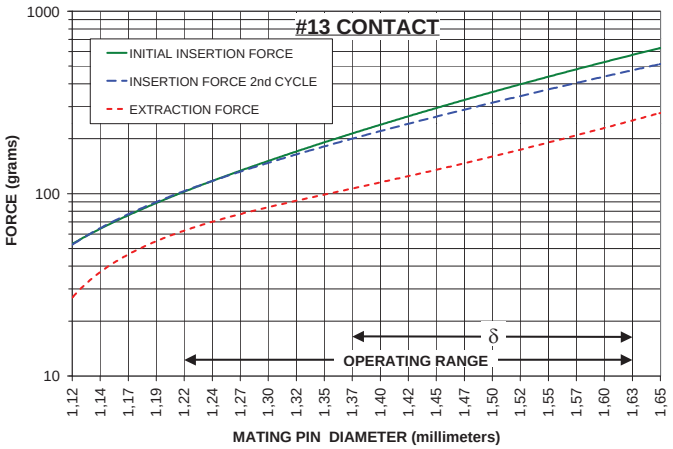


#13 CONTACT

FOR 1,22 - 1,63 DIAMETER PINS (δ = 0,25)
4-FINGER, GROUP G (See page 248)

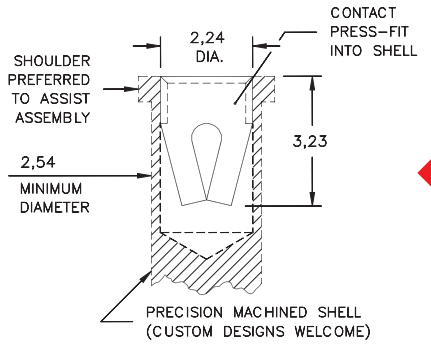


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

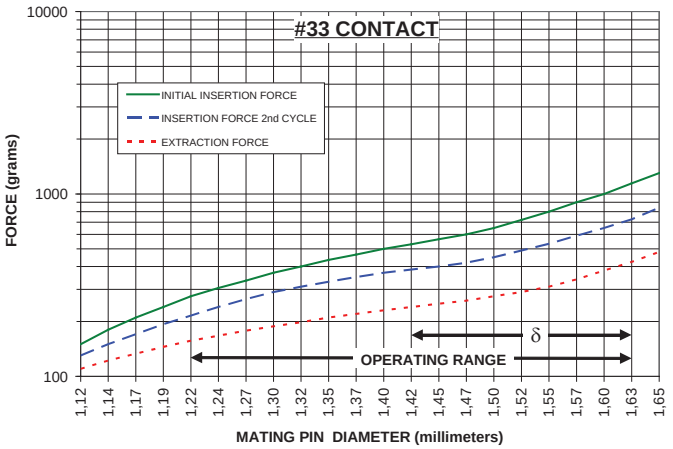


#33 CONTACT

FOR 1,22 - 1,63 DIAMETER PINS (δ = 0,20)
4-FINGER, GROUP G (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



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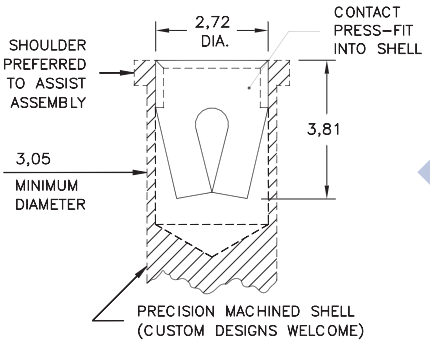
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

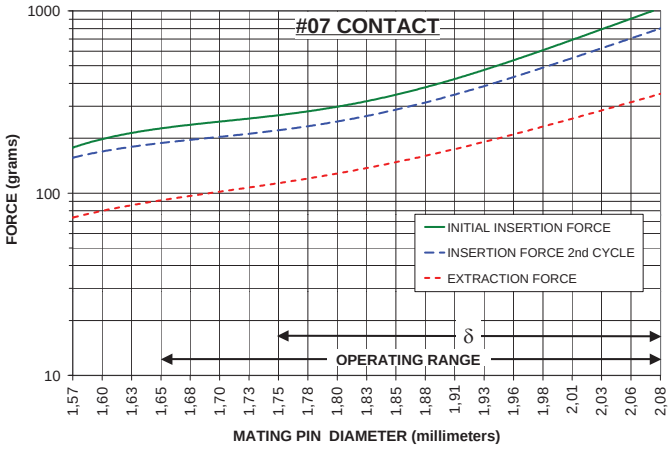
INSERTION / EXTRACTION FORCE GRAPHS

#07 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS (δ = 0,33)
4-FINGER, GROUP H (See page 248)

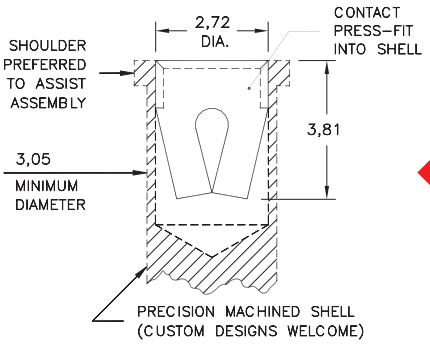


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

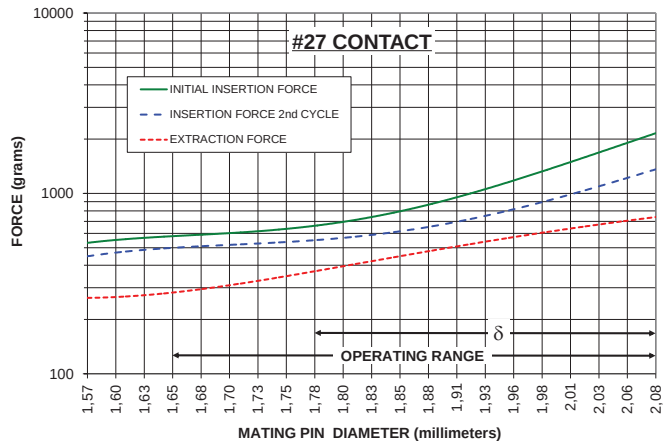


#27 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS (δ = 0,30)
4-FINGER, GROUP H (See page 248)

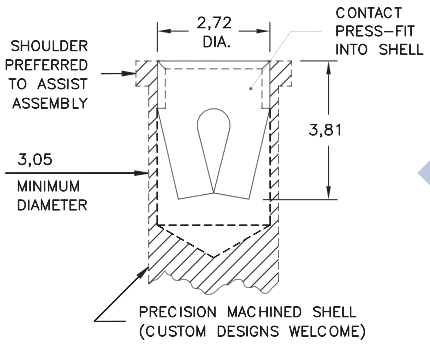


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

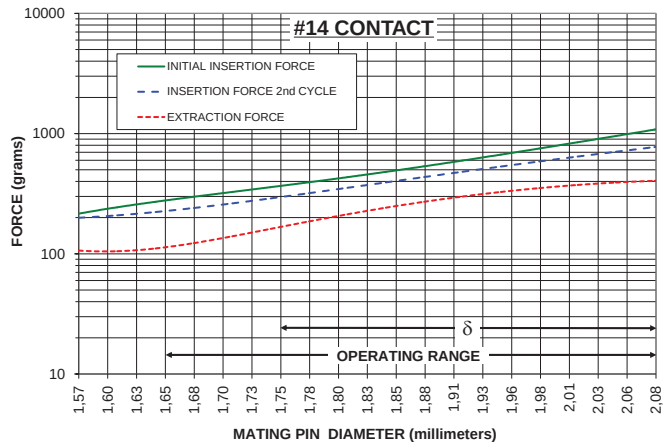


#14 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS (δ = 0,36)
4-FINGER, GROUP H (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

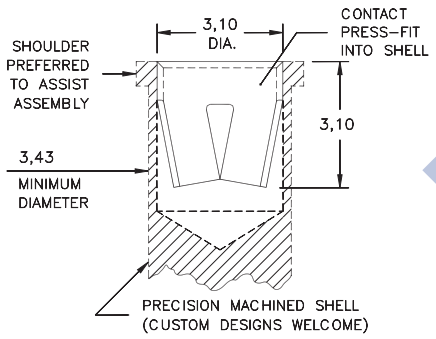
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

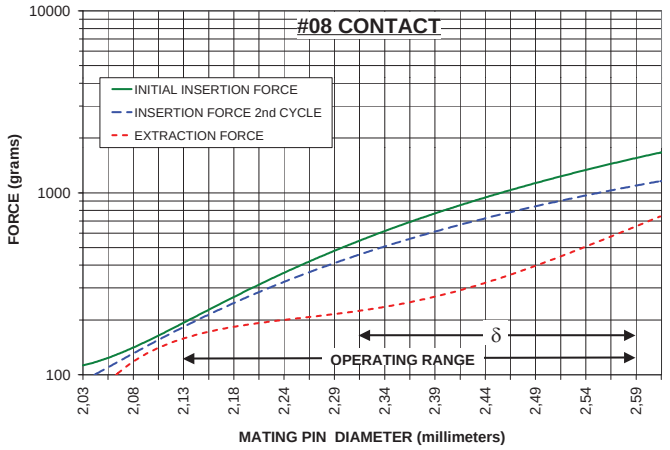
INSERTION / EXTRACTION FORCE GRAPHS

#08 CONTACT

FOR 2,13 - 2,59 DIAMETER PINS (δ = 0,28)
6-FINGER (See page 248)

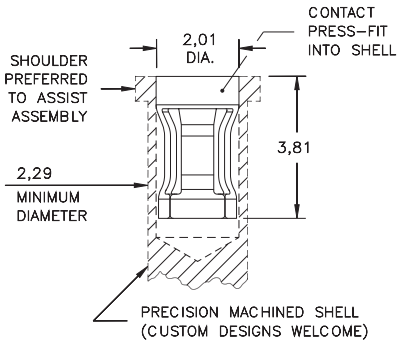


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

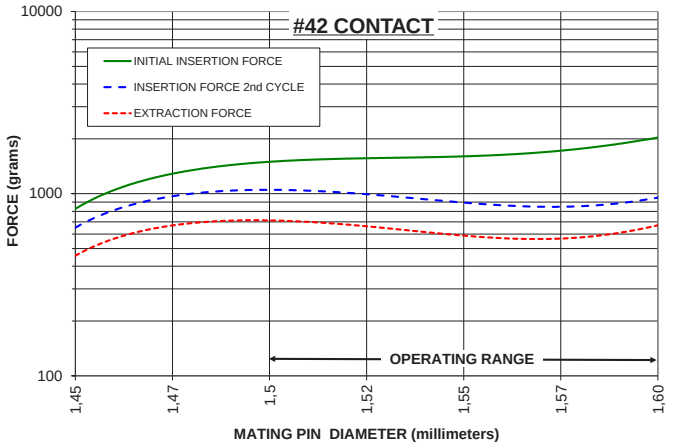


#42 CONTACT

FOR 2,13 - 2,59 DIAMETER PINS
4-FINGER, GROUP J (See page 248)

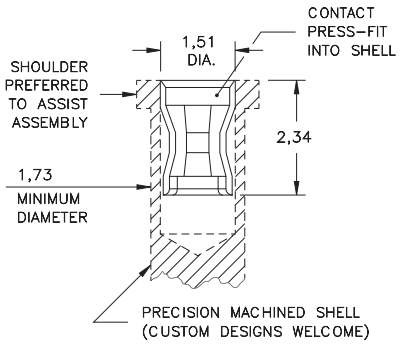


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

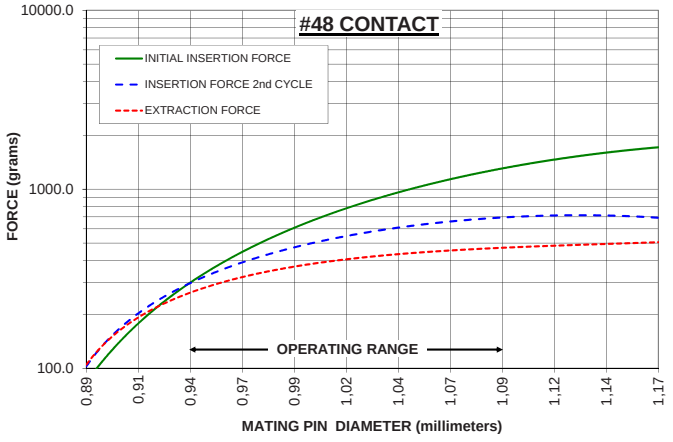


#48 CONTACT

FOR 2,13 - 2,59 DIAMETER PINS
4-FINGER (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

PROPERTIES OF METALS USED BY MILL-MAX

Copper alloy rod and wire for precision-machined pins, receptacles & solder terminals **(RoHS-2 directive 2011/65/EU, exemption 6c) allows up to 4% lead as an alloy agent in copper. All Mill-Max pin materials are:**
BRASS ALLOYS; 360 per ASTM B 16, and 385 per ASTM B455
PHOSPHOR BRONZE Alloy 544 (UNS C54400) per ASTM B 139
TELLURIUM COPPER Alloy 145 (UNS C14500) per ASTM B 301
Spring alloy strip for stamping "multi-finger" spring contacts
BERYLLIUM COPPER Alloy 172 (UNS C17200) per ASTM B 194
BERYLLIUM NICKEL Alloy 360 (UNS N03360)

Properties of BRASS Alloy 360 ASTM B 16:

Chemical composition: Cu 63% (max), Pb 3.7% (max), Fe .35% (max), Zn remainder
Temper as machined: H02/H04
Yield Strength: 25-45 ksi
Tensile strength: 57-80 ksi
Hardness as machined: 80-90 Rockwell B
After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.
Electrical conductivity: 26% IACS *
Melting point: 1000°C/840°C (liquidus/solidus)

Properties of BRASS Alloy 385 ASTM B 455:

Chemical composition: Cu 60% (max), Pb 3.5% (max), Fe .35% (max), Zn remainder
Temper as machined: H02/H04
Yield Strength: 16 ksi (min)
Tensile strength: 48 ksi (min)
Hardness as machined: 80-90 Rockwell B
After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.
Electrical conductivity: 28% IACS *
Melting point: 1000°C/840°C (liquidus/solidus)

Properties of PHOSPHOR BRONZE:

Used for pins requiring more durability than brass.
Stock diameters available: 1,83/1,98mm
Chemical composition: Cu 88%, Sn 4%, Zn 4%, Pb 4%
Temper as machined: H04
Modulus of elasticity: 15 MPSI
Tensile strength: 70-80 KSI
Hardness as machined: 83 Rockwell B
Density: .321 lbs/in3
Electrical conductivity: 19% IACS *
Melting point: 1000°C/930°C (liquidus/solidus)

Properties of TELLURIUM COPPER:

Used for pins requiring a higher current carrying capacity than brass or phosphor bronze.
Stock diameters available: 2,01/2,36/3,18/3,96mm
Chemical composition: Cu 99.44%, Te .55%, P .008%
Temper as machined: H02
Modulus of elasticity: 17 MPSI
Tensile strength: 43 KSI
Hardness as machined: 43 Rockwell B
Density: .323 lbs/in3
Electrical conductivity: 93% IACS *
Thermal conductivity: 91% IACS *
Melting point: 1075°C/1051°C (liquidus/solidus)

Properties of BERYLLIUM COPPER:

Chemical composition: Cu 98.1%, Be 1.9%
Temper as stamped: TD01
Properties after heat treatment (TH01):
Modulus of Elasticity: 19 MPSI
Tensile Strength: 175-205 KSI
Yield Strength (0.2% offset): 150-185 KSI
Elongation: 3-10%
Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C
70% of stress remains after 1,000 hours @ 200 °C
Hardness: 36-43 Rockwell C
Density: .298 lbs/in3
Electrical Conductivity: 22% IACS *
Melting point: 980°C/865°C (liquidus/solidus)
Since BeCu loses its spring properties over time at high temperatures, it is rated for continuous use up to 150°C. For "down-hole" and "burn-in" applications up to 300°C. Mill-Max offers nine contacts (#19, #24, #25, #26, #27, #33, #38, #56, #58) made from Beryllium Nickel Alloy 360 (UNS N03360)

Properties of BERYLLIUM NICKEL:

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5%
Modulus of Elasticity: 27-30 MPSI
Tensile Strength: 245 KSI min.
Yield Strength (0.2% offset): 200 KSI min.
Elongation: 9% min.
Hardness: 49 Rockwell C
Density: .294 lbs/in3
Electrical Conductivity: 7% IACS *
Melting point: 1,325°C/1,195°C (liquidus/solidus)
* International Annealed Copper Standard, i.e.: as a % of pure copper.

PROPERTIES OF PLASTICS USED BY MILL-MAX

Standard plastics used for catalog products:

Injection Molded

PCT Polyester {30% glass filled}, High Temp., (black). Flammability rating UL 94 V-O

Nylon46, High Temp. {30% glass filled} or {45% glass filled}, (black). Flammability rating UL 94 V-O

PPS, High Temp. {40% glass filled}, (black). Flammability rating UL 94 V-O

Machined

FR-4 Epoxy/Glass Laminate. In stock thicknesses available: 0,25, 0,51, 0,79, 1,19, 1,57, 2,36, 3,18mm (natural color, beige). Other thicknesses available upon request. Flammability rating UL 94 V-O

G-30 Polyimide/Glass Laminate, 1,57 thick (natural color, brown) Flammability rating UL 94 HB

TEMPERATURE COMPARISON OF MOLDED INSULATORS

MATERIAL	HEAT DEFLECTION TEMP. (per ASTM D 648)
PCT Polyester	529°F (276°C) @ 66 psi
Nylon 46	554°F (290°C) @ 264 psi
PPS	>500°F (>260°C) @ 264 psi

Note: Materials with HDT above 446°F (230°C) are considered suitable for "eutectic" reflow soldering. For "lead-free" reflow soldering, choose materials with an HDT above 500°F (260°C).

PCT is the standard plastic used with RoHS "lead-free" plated pins.

MILL-MAX STANDARD PLATINGS (FINISHES):

GOLD per ASTM B 488, Type 1 (99.7% min. gold),
Code C (130-200 HK {Knoop hardness}),
Class (thickness) per customer's requirements

SILVER per ASTM B 700, Type 1 (99.9% min. silver),
Grade B (Bright),
Class S (anti-tarnish treatment),
Thickness (7,5µm used for solder terminals)

TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth) Class A (2,5µm) or Class B (5µm),
Bright finish (Matte available to order)

ELECTRO-SOLDER (60/40) per ASTM B 579, SC2 (8µm),
Bright finish (Matte available to order)

Standard finishes available for RoHS "lead-free" applications:

GOLD per ASTM B 488, Type 1 (99.7% min. gold),
Code C (130-200 HK {Knoop hardness}),
Class (thickness) per customer's requirements

TIN (100%) per ASTM B 545, Class A (2,5µm) or Class B (5µm),
Matte finish (With whisker and oxide inhibitors & a nickel underplate)

ALL MILL-MAX PARTS REQUIRE AN UNDERPLATE:

Brass parts need a barrier plate to prevent zinc diffusion, 1,27µm min. nickel or 2,54µm min. copper is recommended by ASTM B 545 and 579. ASTM B 488 also recommends a 1,27µm min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

MILL-MAX STANDARD UNDERPLATES:

NICKEL per ASTM B 689, Type 2 (Bright),
Class 1.25 (1,25µm) or Class 2.5 (2,5µm)

Also available for military and "non-magnetic" applications:

COPPER per ASTM B 734, Class 2.5 (2,5µm) or Class 5 (5µm)

Pins & Receptacles

Pin & receptacle shells are manufactured by precision high-speed turning machines. The base materials for these components are copper alloys.

Receptacles are a two piece construction consisting of a plated contact press-fit into a plated shell. The contacts are stamped from beryllium copper strip.

Materials

Pins & Receptacle Shells:
Brass Alloy 360 UNS C36000 ASTM-B16, and 385 UNS 38500 ASTM B455 (Up to a 6,35mm diameter)
Phosphor Bronze alloy 544 UNS C54400 ASTM-B139 (Up to a 1,83mm diameter)
Tellurium Copper alloy 145 UNS C14500 ASTM-B301 (Up to a 3,96mm diameters)

See page 154 and 203 for a complete list of standard available stock diameters.
(For the availability of larger diameter materials contact Technical Services).

Contacts:
Beryllium copper UNS C17200 ASTM-B194 (For most applications)
Beryllium Nickel UNS N03360 (For high temperature applications)

(For individual contact specifications see pages 250 - 262)
The materials listed above are all RoHS compliant.

Dimensional, Mechanical & Environmental Data

Standard tolerances for pins & receptacle shells:
Diameters +/- 0,051mm
Lengths +/- 0,13mm
Angles +/- 2°

Mechanical Life (Durability): Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.

Contact Forces: See individual contact specifications on pages 250 - 262.

Environmental Data:
- Operating temperature range: -55/+125° C (min. / max. discontinuous)
- Vibration (No electrical discontinuity Greater than 1 µs): 10-2000 HZ, 15 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

Electrical data is dependent on the contact used in the receptacle. See page 248 for free air current ratings of the contacts.

Platings

GOLD per ASTM B 488 and MIL-G-45204, Type 1, Code C
SILVER per ASTM B 700, Grade B, Class S
TIN per ASTM B 545, Type 1
TIN/LEAD (93/7) per ASTM B 545
ELECTRO-SOLDER (60/40) per ASTM B 579, Bright
NICKEL per SAE-AMS-QQ-N-290
ELECTROLESS NICKEL per MIL-C-26074
COPPER per SAE-AMS-2418

Connectors

Connectors are headers, sockets and interconnects. They consist of pins, receptacles or spring pins assembled into thermoplastics or machined laminate insulator bodies. They are available in DIP, SIP, strip, BGA and PGA packages in grids of 1mm, 1,27mm, 1,78mm, 2mm, 2,54mm, .8mm for BGA's and 2,54mm interstitial for PGA's.

Electrical Data

SERIES:	100-700	80X	830	850
• Rated current (Amps):	3	3	3	1
• Rated voltage:	100 VRMS/150 VDC			
• Contact resistance:	10 mΩ max.			
• Insulation resistance:	10,000 MΩ min.			
• Dielectric strength: (700 VRMS min. for series 117 Shrink DIP)	1000 VRMS min.			
• Air and creepage distance (mm): (0,30 for series 117 Shrink DIP)	0,71	0,84/0,71	0,51	0,41/0,51
• Capacitance(pF max):	.8	1	1	1

Electrical data above does not apply to BGA, PLCC, USB or spring-loaded connectors. Electrical data for these products can be found on the following pages: BGA – Page 141; PLCC - Page 141; USB - Pages 147 - 150; Spring-Loaded connectors – Pages 6 - 19
Current ratings are for a 10° C temperature rise above ambient (20°C)

Operating temperature range: -55/+125° C (min./max. discontinuous)

General tolerances for assembled connector products:
- Lengths: +/- 0,25mm
- Connector Flatness: 0,13mm (up to 25,4mm in length)
- Co-planarity of SMT Connectors: 0,13mm (up to 25,4mm in length)
- For connectors exceeding 25,4mm in length the flatness/co-planarity may exceed 0,13mm. Please contact Technical Services for more information.

(Note: Specifications and tolerances are provided wherever possible. Due to the wide variety of connectors Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.)

Materials

Insulator Bodies:
Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array, spring pin and shrouded connector insulators are molded from high temperature Nylon 46 or PPS, rated UL 94 V-0.

FR-4 epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

For complete material properties of plastics used by Mill-Max see page 263.

For inquiries regarding other insulator materials, please contact Technical Services.

Spring Pins

Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold-plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

Materials

External Components (Body, Piston, Base, Tail):
Brass Alloy 360 UNS C36000 ASTM-B16

Springs

Beryllium copper UNS C17200 ASTM-B197
Stainless Steel 302

Dimensional, Mechanical & Environmental Data

Standard tolerances for spring pins at initial height:
Diameters +/- 0,051mm
Lengths +/- 0,15mm

Mechanical life (durability): Tested to 1,000,000 cycles
Force tolerance: +/- 20 g (See individual spring pin data on pages 6 - 19 for forces)
Stroke tolerance: +/- 0,13mm

Environmental Data:

- Operating temperature range: -55/+125° C (min. / max. discontinuous)
- Vibration (No electrical discontinuity Greater than 1 µs): 0-200 HZ, 10 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

For complete material properties of metals, platings and plastics used by Mill-Max see page 263.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

MIL-STD 1916 - DOD preferred methods for acceptance of product
MIL-STD 202G - Test methods for electronic and electrical component parts
MIL-STD 45662 - Calibration system requirements, or ISO 10012
MIL-F-14072 - Finishes for ground based electronic equipment
MIL-I-45208 - Inspection system requirements or equivalent
MIL-S-83505 - General specification for sockets (lead, electronic components)
MIL-DTL-83734 - General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.

Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

GLOSSARY OF TERMS AND DEFINITIONS

Annealing - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

Carrier - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a PC board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

Clip - See Contact.

Closed Entry - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

Compliancy - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

Compliant Press Fit - Method of mounting an interconnect component to a PC board where a drilled and slotted receptacle or pin is pressed into a plated-through-hole without damaging the hole.

Constant Usage Temperature (CUT) - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its electrical and mechanical properties occurs.

Contact (and Contact Clip) - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

Contact Rating - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

Contact Resistance - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

Coplanarity – Refers to the measurement of multiple points and their distance from a respective plane. This is particularly useful for surface mount parts to determine the maximum amount of difference in the height of the surfaces that need to be soldered.

Electroplating - The electrodepositing of a metal coating on a conductive object such as a pin, shell, or contact clip.

Electro-vibratory Plating - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

End Stackable - The ability for connectors to be mounted end to end while maintaining grid or spacing.

Extraction Force (or Withdrawal Force) - The force required to remove a lead from a contact.

Epoxy - Woven glass cloth epoxy laminate. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router the same way as printed circuit boards are fabricated.

Electrostatic Discharge (ESD) - The momentary electric current that flows between two objects that may cause damage to electronic equipment.

Flash (Plating) - A very thin plating of metal, usually less than 0,25 micro meters, to uniformly cover the surface of the base metal.

Flatness – Sometimes used in place of coplanarity, flatness refers to the amount of variation of a plane or surface.

Floating Contact - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

Free Machining Alloy - An alloy which is easy to machine, e.g. brass alloy 360.

Fretting - A form of corrosion caused by vibration.

Gas Tight Connection - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

Heat Deflection Temperature (HDT) - An industry recognized test for comparing the short term effects of high temperature on plastics.

Heat Treating - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

Hex Press Fit - A method of press-fitting either a pin or receptacle, using a hexagonal cross section, into a plated through-hole without causing damage to the hole while still maintaining a gas tight seal.

High Speed Turning - See Precision-Machined.

Injection Molding - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

GLOSSARY OF TERMS AND DEFINITIONS

Insertion Force - The force required to insert a male lead into a female socket.

Knurl - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a PC board or insulator and also preventing rotation of the pin.

LCP (Liquid Crystal Polymer) - Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and excectional strength and toughness in its thin walls. Applications: LCP is used as an insulator material for tight grid (1,27, 2mm) connectors and extremely high temperature requirements.

Mating Pin – The pin used to interconnect two electronic devices by inserting it into the contact. Critical features are diameter, length, and shape (but not limited to.)

Machined - See Precision-Machined.

Migration - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

Nylon 46 - Classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in its thin walls, which are desirable characteristics for connector insulators. Its superior strength in thin walls enables the press-fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and 1,27mm grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

Passive Device or Component – An electronic connector that consumes electrical energy, but does not produce electrical energy. Passive devices are not susceptible to significant ESD damage.

PCB - Printed Circuit Board.

PCT (Polycyclohexane Terephthalate) - Thermoplastic polyester is rated for higher temperatures. PCT is a standard material on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

Plating - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

Plated Through-Hole - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, in which the component lead is inserted and soldered.

Precision-Machined - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

Receptacle - Female contact consisting of an outer shell & inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

Screw-Machined - See Precision-Machined.

Secondary Machining - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

Shrink DIP Package - An IC which has a pin spacing of 1,78mm on centers.

Skiving – The removal of a thin amount of plating when pins or contacts are press fit. For example, soft platings may yield some amount of skiving upon press fitting into an insulator or board. Skiving may also appear under a contact clip pressed into a receptacle shell.

Standoff - A protrusion at the bottom of the connector used to raise it off the PC board to aid in solder fillet formation, board inspection, flux removal and cleaning.

Swage Mount - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

Thermal Coefficient of Expansion (TCE) - Expansion of material caused by an increase in temperature.

Thermoset - Type of plastic which is heat cured into a permanent shape and, due to chemical reaction, cannot be remelted.

Thermoplastics - Type of plastic which is molded under heat and pressure and can be remelted & reused many times.

Top Plate - Final surface plating over base metal and underplating.

Underplate - Plating between the base metal and the top plating.

Withdrawal Force (or Extraction Force) - The force required to remove a lead from a contact.

Wrapost (Terminal or Receptacle) - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping. Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.

INDEX

NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
101-93-XXX-41-56X000	1001/0156	95
104-XX-XXX-41-770000	0477	96
104-XX-XXX-41-780000	0478	96
110-XX-210-10-001000	1001	134
110-XX-210-10-002000	1001	135
110-XX-3XX-10-001000	1001	134
110-XX-3XX-10-002000	1001	135
110-XX-3XX-10-003000	1001	135
110-XX-3XX-10-004000	1001	135
110-XX-3XX-10-005000	1001	135
110-XX-XXX-41-001000	1001	90
110-XX-XXX-41-105000	1005	104
110-XX-XXX-41-530000	1001	100
110-XX-XXX-41-605000	1005	94
110-XX-XXX-41-801000	1001	98
111-XX-XXX-41-001000	0134	91
113-XX-XXX-41-117000	1334/1434	107
114-XX-XXX-41-117000	1434	106
115-XX-XXX-41-001000	0501	92
115-XX-XXX-41-003000	1534	93
116-XX-XXX-41-001000	0153-5	111
116-XX-XXX-41-003000	0153-2	111
116-XX-XXX-41-006000	0153-1	111
116-XX-XXX-41-007000	0153-3	111
116-XX-XXX-41-008000	0153-4	111
117-XX-XXX-41-005000	1802	125
117-XX-XXX-41-105000	1802	126
121-XX-XXX-41-001000	0040-1	109
122-XX-XXX-41-001000	0089-2	109
122-XX-XXX-41-801000	0089-2	98
123-XX-XXX-41-001000	0088-3	109
123-XX-XXX-41-801000	0088-3	98
124-XX-XXX-41-002000	0086-4	109
126-XX-XXX-41-001000	2601	110
126-XX-XXX-41-002000	2602	110
126-XX-XXX-41-003000	2603	110
127-XX-XXX-41-002000	1702-2	125
127-XX-XXX-41-003000	1703-3	125
134-10-XXX-00-000000	3400	122
134-10-XXX-00-010000	3401	122
134-10-XXX-00-020000	3402	122
134-10-XXX-00-050000	3405	122
134-10-XXX-00-100000	3410	122
142-XX-XXX-00-591000	4259-1	123
142-XX-XXX-00-592000	4259-2	123
142-XX-XXX-00-593000	4259-3	123
142-XX-XXX-00-594000	4259-4	123
146-XX-XXX-41-012000	4612	97
146-XX-XXX-41-013000	4613	97
150-XX-XXX-00-001000	0290	116
150-10-XXX-00-106000	3404	124
151-10-XXX-00-003000	5503	120
151-10-XXX-00-004000	5504	120
151-10-XXX-00-005000	5505	120
151-10-XXX-00-009000	5509	121
151-10-XXX-00-010000	5510	121
151-10-XXX-00-011000	5511	121
153-XX-XXX-00-001000	5301	116
160-XX-XXX-00-001000	0282	117
162-XX-XXX-00-001000	1106-2	117
162-XX-XXX-00-180000	6218	127
162-XX-XXX-30-180000	6218	128
163-XX-XXX-00-001000	1106-3	117
170-XX-XXX-00-001000	0700	118
173-XX-XXX-00-001000	0730-3	118
180-XX-XXX-00-001000	8000	119
182-XX-XXX-00-001000	8301-2	119
183-XX-XXX-00-001000	8301-3	119
210-XX-XXX-41-001000	1001	99
210-XX-XXX-41-101000	1001	101
210-XX-XXX-41-105000	1005	105
210-XX-XXX-41-105799	1005	105
214-XX-XXX-01-670799	1434	108
214-XX-XXX-01-670800	1434	108
217-XX-764-41-005000	1802	125
222-XX-XXX-41-001000	0089-2	99
223-XX-XXX-41-001000	0088-3	99
223-XX-XXX-41-101000	0038-3	102
227-XX-764-41-002000	1702-2	125
227-XX-764-41-003000	1703-3	125
296-XX-010-30-691800	4077/4078	133
296-XX-010-30-692800	4077/4078	133
299-XX-XXX-10-001000	1103/0903	129
299-XX-XXX-10-002000	1103/0904	129
299-XX-XXX-11-001000	1103/1610	129
299-XX-210-12-001800	1002-X	133
301-43-1XX-41-560000	0156/1001	46
302-10-001-00-900800	0290	87.1
304-XX-1XX-41-770000	0477	73
304-XX-1XX-41-780000	0478	73
305-43-001-30-010800	0501	87.2
310-43-001-30-010800	1001	87.2
310-XX-1XX-40-023000	1023	50
310-XX-1XX-41-001000	1001	46,65
310-XX-1XX-41-105000	1005	51
310-XX-1XX-41-107000	1005	51
311-XX-1XX-41-001000	0134	65
311-XX-1XX-41-003000	1103	66.1
315-XX-1XX-41-001000	0501	65
315-XX-1XX-41-003000	1534	65
315-XX-1XX-41-004000	0512	45.2
316-XX-1XX-41-001000	0153-5	67
316-XX-1XX-41-003000	0153-2	67
316-XX-1XX-41-006000	0153-1	67
316-XX-1XX-41-007000	0153-3	67
316-XX-1XX-41-008000	0153-4	67
317-XX-121-41-005000	1802	125
317-XX-121-41-105000	1802	126
319-10-1XX-00-001000	1942	20
319-10-1XX-00-002000	1940	20
319-10-1XX-00-005000	1938	20
319-10-1XX-00-006000	1948	20.2
319-10-1XX-30-007000	1957	20.2
319-10-1XX-30-008000	1953	20.1
319-10-1XX-30-041000	1941	20.1
319-10-1XX-30-054000	1954	20.1

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MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
319-10-1XX-30-055000	1955	20.2
319-10-1XX-40-080001	1980	22.4
321-13-1XX-41-001000	0040-1	69
322-XX-1XX-41-001000	0089-2	69
323-XX-1XX-41-001000	0088-3	69
324-XX-1XX-41-002000	0086-4	69
326-XX-1XX-41-001000	2601	71
326-XX-1XX-41-002000	2602	71
326-XX-1XX-41-003000	2603	71
327-XX-121-41-002000	1702-2	125
327-XX-121-41-003000	1703-3	125
328-XX-1XX-40-020001	2820	87.4
329-XX-1XX-41-540000	2954	48
329-10-1XX-00-560000	2956-1	49
330-10-1XX-00-240000	3024	20
330-10-001-00-770800	3077	87.1
334-XX-1XX-00-000000	3400	81
334-XX-1XX-00-010000	3401	81
334-XX-1XX-00-020000	3402	81
334-XX-1XX-00-050000	3405	81
334-XX-1XX-00-100000	3410	81
335-XX-1XX-00-160000	3516	78
339-XX-1XX-40-000000	3900	50.1
340-XX-1XX-30-780100	4078	41,49
342-XX-1XX-00-591000	4259-1	82
342-XX-1XX-00-592000	4259-2	82
342-XX-1XX-00-593000	4259-3	82
342-XX-1XX-00-594000	4259-4	82
346-XX-1XX-41-012000	4612	73
346-XX-1XX-41-013000	4613	73
349-10-1XX-00-560000	4956-1	59
350-XX-1XX-00-001000	0290	52,84
350-XX-1XX-00-006000	3404	46
350-XX-1XX-00-106000	3404	51
350-XX-1XX-00-107000	3404	51
351-10-1XX-00-003000	5503	79
351-10-1XX-00-004000	5504	79
351-10-1XX-00-005000	5505	79
351-10-1XX-00-009000	5509	79
351-10-1XX-00-010000	5510	79
351-10-1XX-00-011000	5511	79
351-10-1XX-40-002000	5102	50
353-XX-1XX-00-001000	5301	86
360-XX-1XX-00-001000	0282	84
362-XX-1XX-00-001000	1106-2	86
363-XX-1XX-00-001000	1106-3	86
364-10-1XX-00-580000	6458	78
370-XX-1XX-00-001000	0700	84
370-10-001-00-070800	7007	87.1
373-XX-1XX-00-001000	0730-3	86
380-XX-1XX-00-001000	8000	48,84
380-10-0XX-00-002000	3080	47.1
380-10-001-00-000800	8000	87.1
380-XX-1XX-10-003000	3180	47.2
382-XX-1XX-00-001000	8301-2	86
383-XX-1XX-00-001000	8301-3	86
388-XX-102-11-740799	8874	152
388-XX-102-11-740800	8874	152

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
395-XX-101-03-380000	8433	151
395-XX-101-07-350000	8994	151
395-XX-101-34-340000	8993	151
399-XX-1XX-10-003000	1103	46
399-10-1XX-10-007000	1960	20.2
399-10-1XX-10-008000	1940	20.1
399-XX-1XX-10-009000	5011	46
399-XX-0XX-21-300000	9930	41
399-XX-0XX-00-310000	9931	41
406-XX-2XX-30-068000	0668	49
406-XX-2XX-30-068001	0668	49
410-XX-2XX-10-001000	1001	134
410-XX-2XX-10-002000	1001	134
410-XX-2XX-41-001000	1001	47,66
410-XX-2XX-41-105000	1005	51
411-XX-2XX-41-001000	0134	66
411-XX-2XX-41-003000	1103	66.1
414-XX-2XX-41-117000	1434	49
415-XX-2XX-41-001000	0501	66
415-XX-2XX-41-003000	1534	66
415-XX-2XX-41-004000	0512	45.2
416-XX-2XX-41-001000	0153-5	68
416-XX-2XX-41-003000	0153-2	68
416-XX-2XX-41-006000	0153-1	68
416-XX-2XX-41-007000	0153-3	68
416-XX-2XX-41-008000	0153-4	68
419-10-2XX-00-001000	1942	21
419-10-2XX-00-002000	1940	21
419-10-2XX-00-005000	1938	21
419-10-2XX-00-006000	1948	21.2
419-10-2XX-30-007000	1947	21.2
419-10-2XX-30-041000	1941	21.1
419-10-2XX-30-042000	1941/1942	21.1
419-10-2XX-30-054000	1954	21.1
419-10-2XX-30-055000	1955	21.2
421-XX-2XX-41-001000	0040-1	70
422-XX-2XX-41-001000	0089-2	70
423-XX-2XX-41-001000	0088-3	70
424-XX-2XX-41-002000	0086-4	70
426-XX-2XX-41-001000	2601	72
426-XX-2XX-41-002000	2602	72
426-XX-2XX-41-003000	2603	72
429-XX-2XX-41-540000	2954	48
429-10-2XX-00-560000	2956-0	49
430-10-2XX-00-240000	3024	21
435-XX-2XX-00-160000	3516	78
442-XX-2XX-00-591000	4259-1	83
442-XX-2XX-00-592000	4259-2	83
442-XX-2XX-00-593000	4259-3	83
442-XX-2XX-00-594000	4259-4	83
446-XX-2XX-41-012000	4612	74
446-XX-2XX-41-013000	4613	74
449-10-2XX-00-560000	4956-1	59
450-XX-2XX-00-001000	0290	52,85
450-XX-2XX-00-006000	3404	47
450-XX-2XX-00-106000	3404	51
451-10-2XX-00-003000	5503	80
451-10-2XX-00-004000	5504	80

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451-10-2XX-00-005000	5505	80
451-10-2XX-00-009000	5509	80
451-10-2XX-00-010000	5510	80
451-10-2XX-00-011000	5511	80
453-10-2XX-00-001000	5301	87
460-XX-2XX-00-001000	0282	85
463-XX-2XX-00-001000	1106-3	87
464-10-2XX-00-580000	6458	78
470-XX-2XX-00-001000	0700	85
473-XX-2XX-00-001000	0730-3	87
480-10-2XX-00-001000	8000	48,85
480-10-0XX-00-002000	3080	47.1
483-XX-2XX-00-001000	8301-3	87
499-XX-2XX-10-003000	1103/1602	47
499-10-2XX-10-007000	1958/1960	21.2
499-10-2XX-10-008000	1938/1940	21.1
499-10-2XX-10-009000	5011/5113	47
507-10-XXX-XX-XXX437	0737	140
510-XX-XXX-XX-XXX00X	1001	138
511-XX-XXX-XX-XXX00X	0134	138
513-XX-XXX-XX-XXX085	1385	138
514-XX-XXX-XX-XXX034	1434	138
515-XX-XXX-XX-XXX00X	0501	138
518-XX-XXX-XX-XXX00X	180X	138
522-XX-XXX-XX-XXX00X	0089-2	138
523-XX-XXX-XX-XXX00X	0088-3	138
540-10-XXX-XX-XXX448	4048	142
540-10-XXX-XX-XXX454	4054	142
540-10-XXX-XX-XXX498	4098	142
540-44-XXX-17-40000X	N/A	145
550-XX-XXX-XX-XXX012	5012	140
551-XX-XXX-XX-XXX003	5503	140
551-XX-XXX-XX-XXX004	5504	140
551-XX-XXX-XX-XXX005	5505	140
579-10-XXX-XX-XXX429	7929	142
582-11-XXX-XX-XXX414	8214	142
587-10-XXX-XX-XXX437	8737	142
594-XX-020-01-007032	8857-X	133
599-11-XXX-XX-XXX428	9928	142
599-10-XXX-XX-XXX429	9929	142
599-11-XXX-XX-XXX453	9953	142
599-XX-XXX-XX-XXX476	9976	140
605-XX-XXX-11-480000	0548	114
605-XX-XXX-XX-XXX048	0548	139
612-XX-XXX-41-001000	0255	112
612-XX-XXX-41-002000	8855	112
612-XX-XXX-41-003000	0135	112
612-XX-XXX-41-004000	0132	112
614-XX-XXX-31-002000	0442	115
614-XX-XXX-31-007000	1407	114
614-XX-XXX-31-012000	0552-1	115
614-XX-XXX-31-018000	0552-2	115
614-XX-XXX-41-001000	1401	113
614-XX-XXX-XX-XXX007	1407	139
614-XX-XXX-XX-XXX012	0552-1	139
614-XX-XXX-XX-XXX0XX	1401	139
712-XX-XXX-41-001000	0255	75
714-XX-XXX-31-007000	1407	76
714-XX-XXX-31-012000	0552-1	77
714-XX-XXX-31-018000	0552-2	77
714-XX-XXX-41-001000	1401	76
800-XX-0XX-10-001000	7007	54
800-XX-0XX-10-002000	5016	53
800-XX-0XX-10-004000	3077	62
800-XX-0XX-10-007000	1107	61
800-10-0XX-10-052000	5016	58
800-XX-0XX-20-001000	5005	54
800-10-0XX-20-201000	5005	64
800-10-0XX-30-001000	7007	59
800-10-0XX-30-052000	5016	58
800-10-0XX-40-002000	1502	59.1
800-XX-0XX-61-001000	5601	56
800-10-0XX-61-051000	5607	58
800-XX-0XX-62-001000	5602	56
801-XX-0XX-10-001000	1304	54
801-XX-0XX-10-002000	1303	53
801-XX-0XX-10-003000	1303	52
801-XX-0XX-10-004000	1313	62
801-13-0XX-10-007000	1134	61
801-XX-0XX-10-012000	1303	53
801-XX-0XX-10-013000	1303	52
801-43-0XX-10-201000	1304	64
801-43-0XX-10-212000	1303	64
801-XX-0XX-20-001000	1305	54
801-43-0XX-20-201000	1305	64
801-43-0XX-30-001000	1304	59
801-XX-0XX-40-002000	1303	59.1
801-XX-0XX-61-001000	4614	56
801-XX-0XX-62-001000	4615	56
802-XX-0XX-10-001000	7007	55
802-XX-0XX-10-002000	5016	53
802-XX-XXX-10-004000	3077	62
802-XX-0XX-10-007000	1107	61
802-10-0XX-10-052000	5016	58
802-XX-0XX-20-001000	5005/5107	55
802-10-0XX-30-001000	7007	59
802-10-0XX-30-052000	5016	58
802-XX-0XX-61-001000	5601	57
802-10-0XX-61-051000	5607	58
802-XX-0XX-62-001000	5602	57
803-XX-XXX-10-001000	1304	55
803-XX-0XX-10-002000	1303	53
803-XX-0XX-10-003000	1303	52
803-XX-XXX-10-004000	1313	62
803-13-0XX-10-007000	1134	61
803-XX-XXX-20-001000	1305/1306	55
803-XX-XXX-30-001000	1304	59
803-XX-XXX-61-001000	4614	57
803-XX-XXX-62-001000	4615	57
804-10-0XX-10-002000	5016	60
805-43-0XX-10-012000	1303	60
807-22-001-10-00X101	0906-X	19.5
807-22-001-10-00X191	0906-X	19.5
807-22-001-10-02X101	0914-X	19.6
807-22-001-30-00X101	0900-X	19.3
807-22-001-30-00X191	0900-X	19.3

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807-22-001-30-01X101	0907-X	19.4
807-22-001-30-01X191	0907-X	19.4
808-10-040-10-151000	3501/3502/3503	58.2
809-43-040-10-001000	0405/8852/9324	58.2
810-22-0XX-40-001101	0916-0	10
810-22-0XX-40-005191	7966-0	10.1
811-22-0XX-30-00X101	0900-X	07
811-22-00X-30-00X191	0900-X	12
812-22-0XX-30-00X101	0907-X	08
812-22-0XX-30-01X101	0907-X/0908-X	11
812-22-00X-30-00X191	0907-X	12
813-22-0XX-30-00X101	0900-X	07
813-22-0XX-30-00X191	0900-X	12
814-22-0XX-30-00X101	0907-X	08
814-22-0XX-30-01X101	0907-X/0908-X	11
814-22-0XX-30-00X191	0907-X	12
815-22-0XX-30-001101	0965	06
815-22-0XX-30-001191	0965	06
816-22-0XX-10-00X101	0908-X	15
817-22-0XX-30-001101	0965	06
817-22-0XX-30-001191	0965	06
818-22-0XX-10-00X101	0908-X	15
819-22-0XX-30-001101	0913-0	09
819-22-0XX-30-001191	0913-0	12.1
820-22-0XX-30-001101	0913-0	09
820-22-0XX-30-001191	0913-0	12.1
821-22-0XX-10-00X101	0906-X	13
823-22-0XX-10-00X101	0906-X	13
824-22-0XX-00-001000	0933	17
824-22-0XX-00-005000	0947	17.1
825-22-0XX-10-00X101	0914	14
826-22-0XX-00-001000	0933	17
826-22-0XX-00-005000	0947	17.1
827-22-0XX-10-00X101	0914	14
829-22-0XX-20-00X101	0929, 0970	16
830-XX-0XX-10-001000	5012	43
830-10-0XX-10-003000	1951	22.1
830-10-0XX-10-004000	1952	22.1
830-10-0XX-10-005000	3078-0	44.1
830-XX-0XX-20-001000	3790	45
830-10-0XX-20-005000	3078-1	44.1
830-XX-0XX-30-001000	6218	44
830-XX-0XX-30-002000	6218	44
830-10-0XX-30-003000	1949	22.1
830-10-0XX-30-003191	1949	22.1
830-10-0XX-30-004000	1950	22.1
830-10-0XX-30-004191	1950	22.1
830-XX-0XX-40-028000	3028	59.1
831-XX-0XX-10-001000	1802	43
831-XX-0XX-20-001000	1805	45
831-XX-0XX-30-001000	1802	44
831-XX-0XX-30-002000	1802	44
832-XX-XXX-10-001000	5012	43
832-10-0XX-10-003000	1951	22.2
832-10-0XX-10-004000	1952	22.2
832-10-0XX-10-005000	3078-0	44.1
832-10-0XX-10-052000	3143	45.1
832-XX-XXX-20-001000	3790/3796	45
832-10-0XX-20-052000	3160/3161	45.1
832-XX-XXX-30-001000	6218	44
832-10-0XX-30-003000	1949	22.2
832-10-0XX-30-003191	1949	22.2
832-10-0XX-30-004000	1950	22.2
832-10-0XX-30-004191	1950	22.2
832-10-0XX-30-052000	3143	45.1
833-XX-XXX-10-001000	1802	43
833-10-XXX-10-002000	1802	45.1
833-43-XXX-20-001000	1805/3805	45
833-XX-XXX-30-001000	1802	44
834-XX-0XX-10-001000	3435	63
835-XX-0XX-10-001000	3435	63
835-XX-0XX-40-030001	3530	87.3
836-22-0XX-10-001101	7911-0	19.7
836-22-0XX-30-001101	0911-0	19.2
836-22-0XX-30-001191	0911-0	19.2
837-22-0XX-30-001101	0919-0	9.1
837-22-0XX-30-001191	0919-0	9.1
838-22-XXX-10-001101	7911-0	19.7
838-22-0XX-30-001101	0911-0	19.2
838-22-0XX-30-001191	0911-0	19.2
839-22-XXX-30-001101	0919-0	9.1
839-22-XXX-30-001191	0919-0	9.1
850-XX-0XX-10-001000	4006-0	34
850-XX-0XX-10-003000	3050	35.1
850-XX-0XX-20-001000	4006-1	36
850-XX-0XX-20-003000	3050	35.1
850-XX-0XX-30-001000	4006-0	37
850-XX-0XX-30-002000	4006-0	37
850-10-0XX-40-001000	4006-1	40
851-XX-0XX-10-001000	4890-0	34
851-XX-0XX-10-002000	0467	34
851-XX-0XX-10-003000	1157	35.1
851-XX-0XX-10-011000	4890-1	35
851-XX-0XX-10-021000	4890-2	35
851-XX-0XX-20-001000	4890-1	36
851-XX-0XX-30-001000	4890-0	37
851-XX-0XX-30-002000	4890-0	37
851-XX-0XX-40-001000	4890-1	40
852-XX-XXX-10-001000	4006-0	34
852-XX-0XX-10-003000	3050	35.2
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