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Fax: +1 416-754-3299

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**ENGINEERING CHANGE NOTICE**

<b>Originator:</b>	<b>Bo Byoung Jeon</b>	<b>Date:</b>	<b>Document Number</b>
<b>Phone No.</b>	<b>(416) 754-3322</b>	July 28, 2023	ECN20230728-00
<b>Email Address:</b>	<a href="mailto:bbjeon@edac.net">bbjeon@edac.net</a>	<b>Part Number</b>	<b>Drawing Revision</b>
<b>Department</b>	<b>ENGINEERING</b>	Refer to the tables	Rev.1

**CHANGE TYPE**

- CLASS I Customer notification and approval required prior to implementation
- CLASS II Customer notification only, no approval required
- CLASS III No customer notification required

**REASON OF CHANGE**

Part Number Standardization of Modular Jack

**DESCRIPTION OF CHANGE:**

Group 1: There are 17 existing part numbers that will co-exist with new part numbers for the same part.  
 Group 2: 20 New part numbers to replace existing part nos. (obsolete).

Group 1	#	Existing PN	New PN
Both the current and new part numbers will be used commonly.	1	A00-104-220-102	J21014421P00031
	2	A00-104-220-112	J24016621P00031
	3	A00-106-220-911	J2K018821P00031
	4	A00-108-220-912	J2L018821P00031
	5	A00-108-222-900	J2L018821P00131
	6	A00-108-222-950	J2L018821P00131
	7	A00-108-241-450	J6F018822N00112
	8	A00-108-320-910	J20018831P00041
	9	A00-108-920-950	J2K018891P00031
	10	A00-108-960-454	J79018892P00001
	11	A00-108-960-907	J9Q018892L00102
	12	A00-216-660-904	J6H028862N00311
	13	A20-108-661-900	J6H01886BN13211
	14	A20-216-263-904	J6H028822N33211
	15	A20-432-216-900	J6H048822N17211
	16	A20-432-261N310	J6H048822N13311
	17	A20-432-262-903	J6H048822N53211

Group 2	#	Existing PN	New PN
New PN replaces current PN	1	A00-106-268-110	J6H016622N00211
	2	A00-108-268-900	J6H018822N00211
	6	A20-108-260-010	J6H018822N00111
	3	A00-108-268-909	J6H018822N00111
	4	A00-216-260-904	J6H028822N00111
	5	A00-216-268-900	J6H028822N00211
	7	A20-108-261-310	J6H018822N13211
	8	A20-108-262-310	J6H018822N23211
	9	A20-108-660-010	J6H018862N00211
	10	A20-108-661-310	J6H018862N13211
	11	A20-108-662-310	J6H018862N23211
	12	A20-108-663-310	J6H018862N33211
	13	A20-108-665-510	J6H018862N66211
	14	A20-216-261-310	J6H028822N13211
	15	A20-216-264-311	J6H028822N53211
	16	A20-216-661-310	J6H028862N13211
	17	A20-432-261-310	J6H048822N13211
	18	A20-432-661-310	J6H048862N13211
	19	A20-108-263-902	J6H018822N31111
	20	A20-216-263-903	J6H028822N31311

2. Effective implementation to distribution is on August 10, 2023

Note: N/A

**PARTIES AFFECTED**

- Customer
- Distributors
- Suppliers
- NORCOMP
- MH
- ETW
- ECA
- EDG
- EDAC UK

**KEY TARGET DUE DATES IF CHANGE IS APPROVED TO PROCEED** (check if applicable and show target dates as known)

- Submit Quote \_\_\_\_\_
- Prod. Trial Run \_\_\_\_\_
- Run at Rate \_\_\_\_\_
- PPAP from Supplier \_\_\_\_\_
- MRD of Production Parts \_\_\_\_\_

**ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)**

Tooling Rep _____	Process Eng Rep _____
Mfg Eng Rep _____	Facilities Rep _____
Production Rep _____	Sales Rep. _____
Materials Rep _____	Product Eng. Rep. <u>Patrick Martel</u>
Quality Rep <u>Bo Byoung Jeon</u>	Purchasing Rep _____

STATUS	
APPROVED	<input checked="" type="checkbox"/>
CCS CHANGE REQUEST #	

**APPROVALS FOR ECN INITIATION (REQUIRED)**

<input checked="" type="checkbox"/> <b>Vice President</b> <u>Bob Sakitkovski</u>	<input checked="" type="checkbox"/> <b>Quality Engineer</b> <u>Bo Byoung Jeon</u>
<input checked="" type="checkbox"/> <b>Engineering Manager</b> <u>Ronnie Sta. Monica</u>	<input checked="" type="checkbox"/> <b>Mechanical Engineer</b> <u>Bo Byoung Jeon</u>
<input checked="" type="checkbox"/> <b>Business Development Manager</b> <u>Kobie Samuels</u>	

**MINIMUM OF TWO SIGNATURES REQUIRED**

**REJECTED**

Change REJECTED by: \_\_\_\_\_

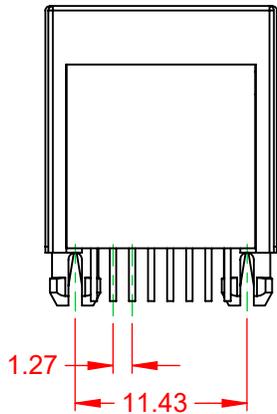
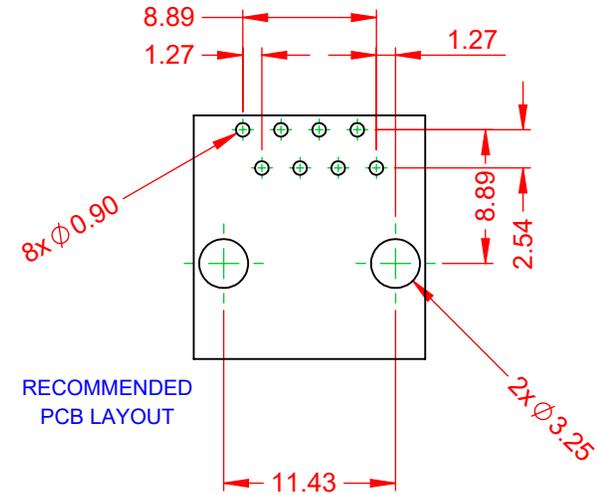
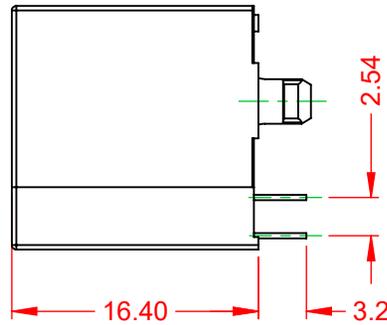
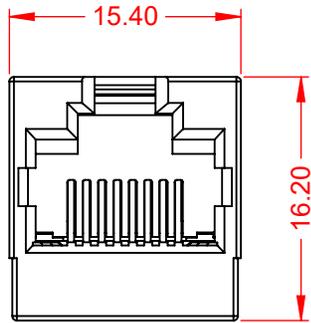
Rejected Date: \_\_\_\_\_

TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.15
.XXX	±0.05

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ISSUE NUMBER	
ORIGINAL	①



**NOTES:**

**1. MATERIALS:**

INSULATOR:  
CONTACT:

PBT, BLACK, UL 94V-0  
PHOSPHOR BRONZE,  
SELECT GOLD FLASH PLATING ON CONTACT AREA  
TIN ON TAILS OVER NICKEL

**2. VOLTAGE RATING:**

125 VAC RMS

**3. CURRENT RATING:**

1.5 AMPS @25°C

**4. CONTACT RESISTANCE:**

20mΩ MAX

**5. INSULATOR RESISTANCE:**

1000 MΩ MIN @ 500V DC

**5. DIELECTRIC WITHSTANDING:** 1000V AC CONTACT TO CONTACT OR  
1500VDC CONTACT TO SCREEN AND TEST PANEL  
@0.5mA 50Hz OR 60Hz 1 MIN

**6. DURABILITY:**

750 CYCLES MIN

**7. MATING/UNMATING FORCE:**

30N/3.06KG MAX

**8. RETENTION STRENGTH:**

50N MIN FOR 60 S +15 S

**9. OPERATING TEMP:**

-40°C TO +85°C

**10. STORAGE TEMP:**

-40°C TO +85°C RELATIVE HUMIDITY <80%

**11. WAVE SOLDERING TEMP:**

260±15°C FOR 5~10 SECONDS

MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



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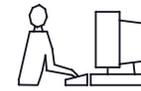
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CANADA  
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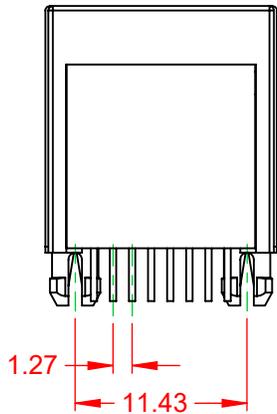
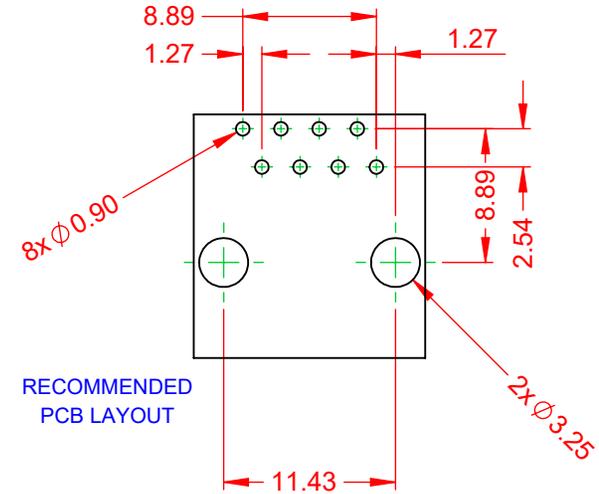
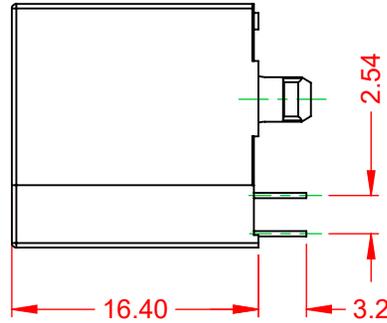
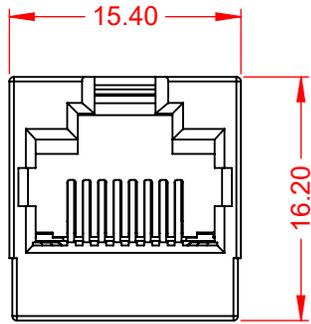
RJ45, VERTICAL		ACAD REFERENCE NO.: J2K Assembly	
		DRAWN: Y.Z	DATE: DEC. 11/2019
CHECKED:	DATE:	SCALE: 2:1	SHEET 1 OF 1
DRAWING NUMBER: J2K Assembly		ISSUE	
PART NUMBER: J2K018821P00031		1	

TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.15
.XXX	±0.05

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ISSUE NUMBER	
ORIGINAL	①



**NOTES:**

**1. MATERIALS:**

INSULATOR:  
CONTACT:

PBT, BLACK, UL 94V-0  
PHOSPHOR BRONZE,  
SELECT 50µ" GOLD PLATING ON CONTACT AREA  
TIN ON TAILS OVER NICKEL

**2. VOLTAGE RATING:**

125 VAC RMS

**3. CURRENT RATING:**

1.5 AMPS @25°C

**4. CONTACT RESISTANCE:**

20mΩ MAX

**5. INSULATOR RESISTANCE:**

1000 MΩ MIN @ 500V DC

**5. DIELECTRIC WITHSTANDING:** 1000V AC CONTACT TO CONTACT OR  
1500VDC CONTACT TO SCREEN AND TEST PANEL  
@0.5mA 50Hz OR 60Hz 1 MIN

**6. DURABILITY:**

750 CYCLES MIN

**7. MATING/UNMATING FORCE:**

30N/3.06KG MAX

**8. RETENTION STRENGTH:**

50N MIN FOR 60 S +15 S

**9. OPERATING TEMP:**

-40°C TO +85°C

**10. STORAGE TEMP:**

-40°C TO +85°C RELATIVE HUMIDITY <80%

**11. WAVE SOLDERING TEMP:**

260±15°C FOR 5~10 SECONDS

MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



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**RJ45, VERTICAL**

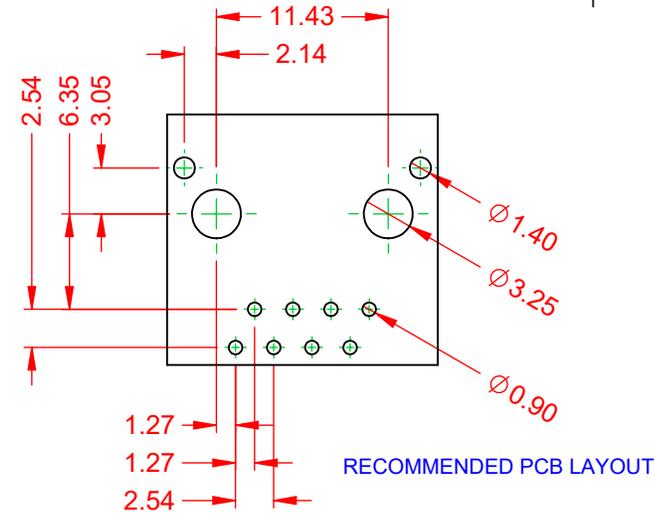
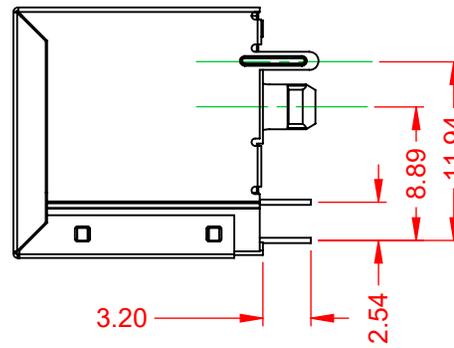
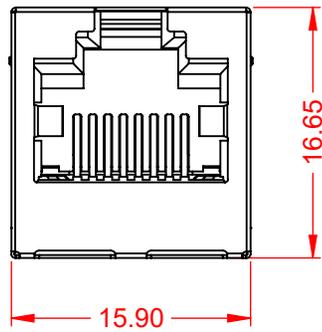
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DRAWN: Y.Z	DATE: DEC. 11/2019
CHECKED:	DATE:
SCALE: 2:1	SHEET 1 OF 1
DRAWING NUMBER: J2K Assembly	ISSUE
PART NUMBER: J2K018891P00031	1

TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.15
.XXX	±0.05

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ISSUE NUMBER	
ORIGINAL	①



**NOTES:**

**1. MATERIALS:**

INSULATOR: PBT, BLACK, UL 94V-0  
 SHIELD: BRASS (T=0.2mm), NICKEL PLATED  
 CONTACT: PHOSPHOR BRONZE (T=0.35mm),  
 SELECT GOLD FLASH PLATING ON CONTACT AREA  
 TIN ON TAILS OVER NICKEL

**2. VOLTAGE RATING:**

125 VAC RMS

**3. CURRENT RATING:**

1.5 AMPS

**4. CONTACT RESISTANCE:**

20mΩ MAX

**5. INSULATOR RESISTANCE:**

1000 MΩ MIN @ 500V DC

**5. DIELECTRIC WITHSTANDING:** 1000V AC CONTACT TO CONTACT OR  
 1500VDC CONTACT TO SCREEN AND TEST PANEL

**6. DURABILITY:**

750 CYCLES MIN

**7. MATING/UNMATING FORCE:**

30N/3.06KG MAX

**8. RETENTION STRENGTH:**

50N MIN FOR 60s ±5s

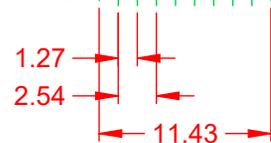
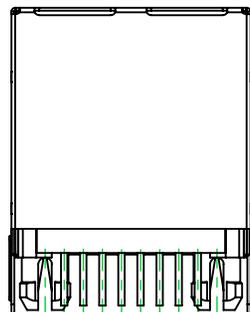
**9. OPERATING TEMP:**

-40°C TO +85°C

**10. STORAGE TEMP:**

-40°C TO +85°C

MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



**RJ45, VERTICAL, WITH PEG**

ACAD REFERENCE NO.: J2L Assembly	
DRAWN: Y.Z	DATE: DEC. 11/2019
CHECKED:	DATE:
SCALE: 2:1	SHEET 1 OF 1
DRAWING NUMBER: J2L Assembly	ISSUE
PART NUMBER: J2L018821P00131	1



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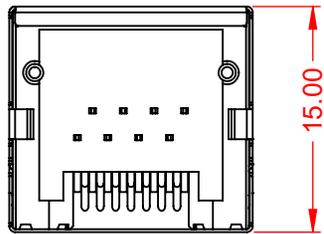
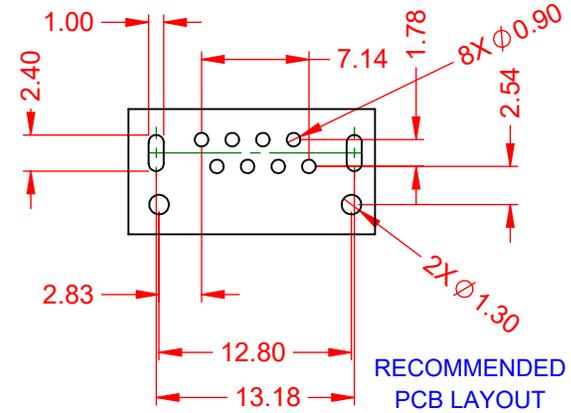
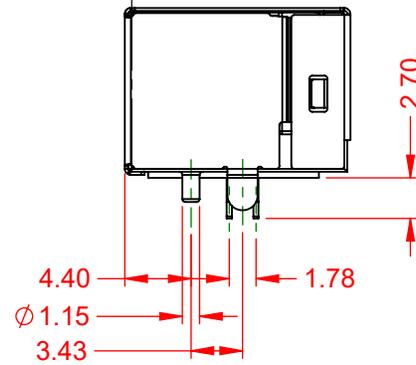
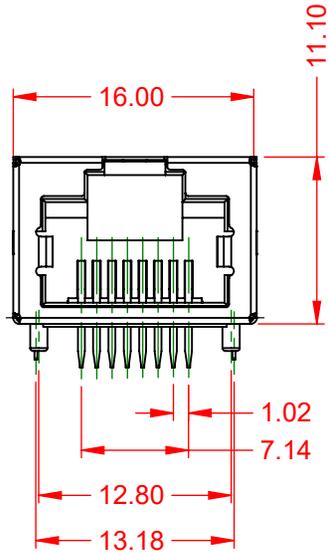
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TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.15
.XX	±0.10
X.X°	±1°

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ISSUE NUMBER	
ORIGINAL	①



**NOTES:**

1. MATERIALS:  
INSULATOR: NYLON, BLACK, UL 94V-0  
CONTACT: PHOSPHOR BRONZE (T=0.35mm), SELECT GOLD FLASH PLATING ON CONTACT AREA  
TIN ON TAILS OVER NICKEL  
SHELL: BRASS (T=0.2mm)
2. VOLTAGE RATING: 125 VAC RMS
3. CURRENT RATING: 1.5 AMPS @25 °C
4. CONTACT RESISTANCE: 20mΩ MAX
5. INSULATOR RESISTANCE: 1000 MΩ MIN @ 500V DC
5. DIELECTRIC WITHSTANDING: 1000V AC CONTACT TO CONTACT  
OR 1500VDC CONTACT TO SCREEN AND TEST PANEL  
@0.5mA 50Hz OR 60Hz 1 MIN
6. DURABILITY: 750 CYCLES MIN
7. MATING/UNMATING FORCE: 30N/3.06KG MAX
8. RETENTION STRENGTH: 30N MIN FOR 60s ±5s
9. OPERATING TEMP: -40°C TO +85°C
10. STORAGE TEMP: -40°C TO +85°C RELATIVE HUMIDITY <80%
11. WAVE SOLDERING TEMP: 260 ±5°C FOR 5~10s

MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.

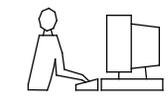
<b>RJ45,RIGHT ANGLE</b>		ACAD REFERENCE NO.: J6F Assembly	
		DRAWN: Y.Z	DATE: DEC. 16/2019
<b>EDAC</b> TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY & SERVICE		CHECKED:	
		DATE:	
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		DRAWING NUMBER: J6F Assembly	ISSUE 1
		PART NUMBER: J6F018822N00112	1



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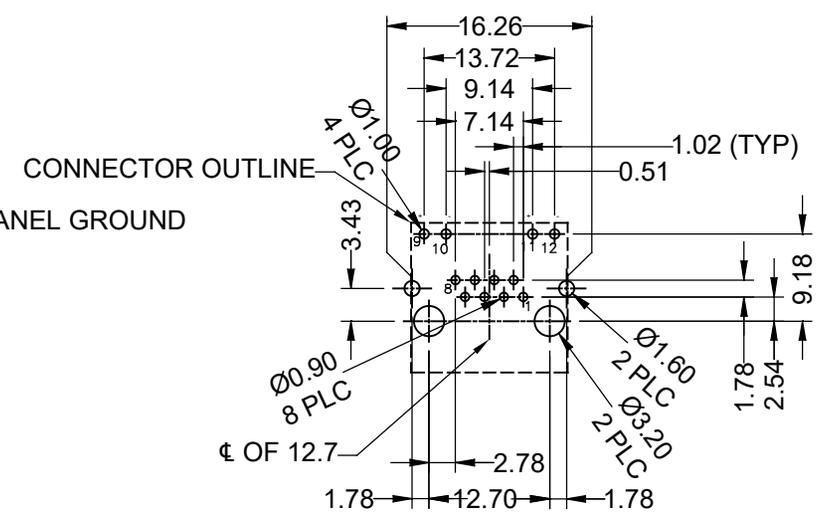
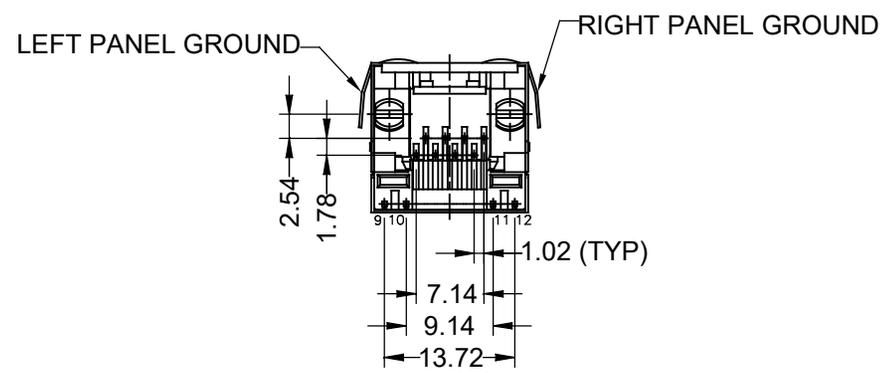
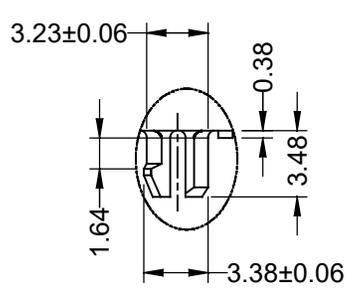
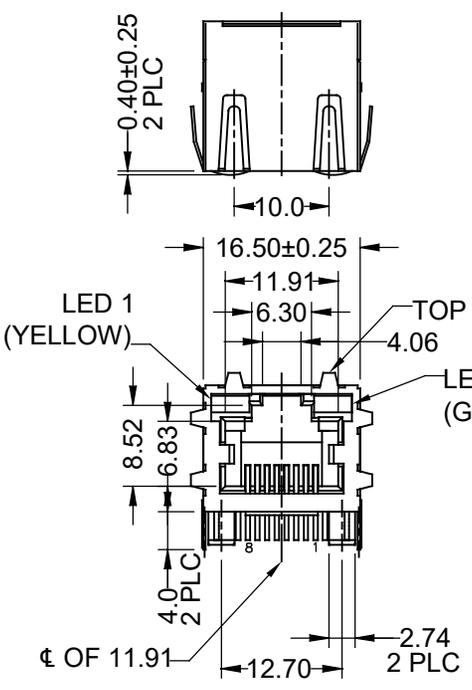
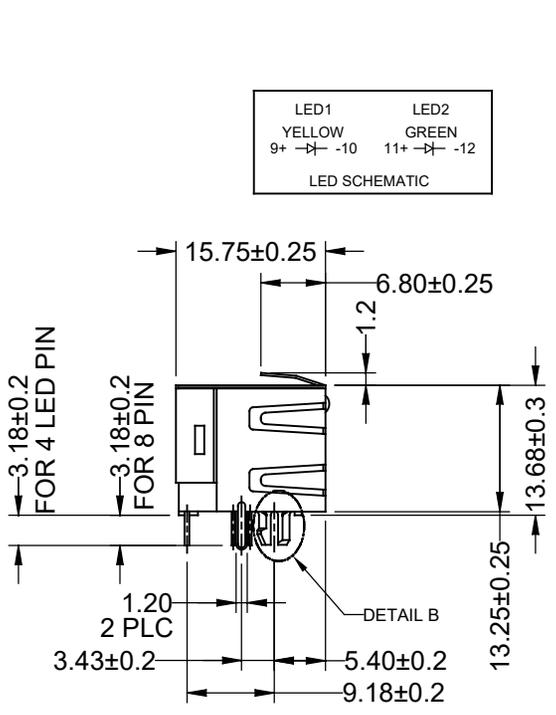
TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:  
.XX ± 0.25  
.XXX ± 0.13  
X.X ± 2°

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NOTES:  
MATERIAL:  
HOUSING: DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP. 290°  
BLACK COLOR, UL94V-0  
CONTACTS: 0.35mm THICK PHOS-BRONZE PLATED  
WITH 30u" HARD GOLD AND GOLD FLASH IN  
SOLDER AREA.  
SHIELD: 0.25mm THICK COPPER ALLOY, PLATED WITH NICKEL.  
CAVITY CONFIRMS TO FCC RULES AND REGULATIONS  
PART 68, SUBPART F.

LED1	LED2
YELLOW	GREEN
9+ -10	11+ -12
LED SCHEMATIC	



DO NOT SCALE

<p align="center"><b>SINGLE PORT, 8 POSITIONS WITH LED'S SHIELDED R/ANGLE PCB</b></p>		ACAD REFERENCE NO.: J6H01886BN13211	
		DRAWN: P.M.	DATE: JUL. 31/2023
		CHECKED: R.S.M.	
		DATE: JUL. 31/2023	
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		DRAWING NUMBER: J6H01886BN13211	ISSUE 1
		PART NUMBER: J6H01886BN13211	



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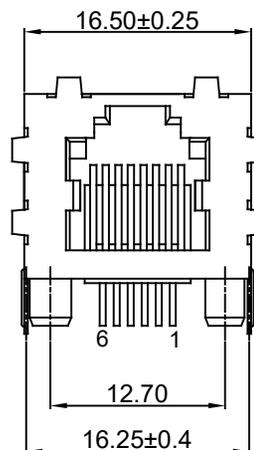
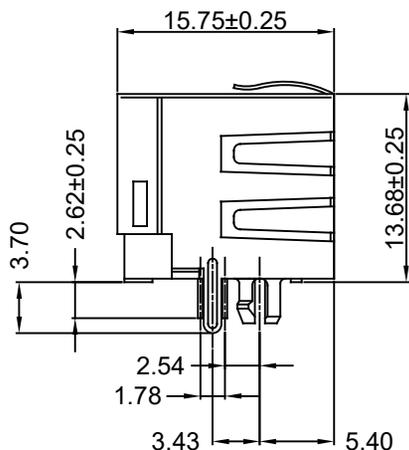
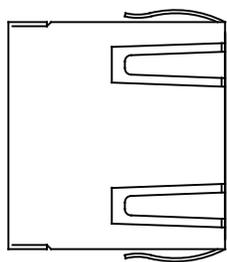


\* UNLESS OTHERWISE SPECIFIED TOLERANCES  
ON DECIMAL IS: ±0.15

ISSUE NUMBER

ORIGINAL

①



**MATERIALS:**

**HOUSING:** DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP: 290°C  
BLACK COLOR, UL94V-0

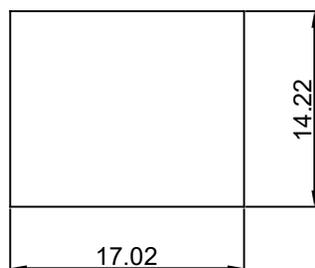
**SHIELD:** 0.25MM THICK COPPER ALLOY,  
NICKEL PLATED

**CONTACTS:** 0.35MM THICK PHOSPHOR BRONZE  
WITH GOLD PLATING

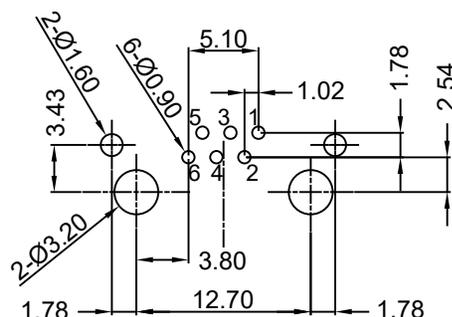
PART NUMB

GOLD PLATING

J6H016622N00211	GOLD FLASH
J6H016632N00211	15u" OF GOLD
J6H016662N00211	30u" OF GOLD
J6H016692N00211	50u" OF GOLD



RECOMMENDED PANEL CUT-OUT



RECOMMENDED P.C.B LAYOUT  
(THICKNESS: 1.6MM)  
(TOP VIEW)



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**MODULAR JACK 6 POSITIONS  
RIGHT ANGLE PCB JACK**



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ACAD REFERENCE NO.	J6H016622N00211
DRAWN: P.M	DATE: JUL.22/2023
CHECKED:	DATE:
SCALE: NOT TO SCALE	SHEET 1 OF 1
DRAWING NUMBER	J6H016622N00211
ISSUE	1

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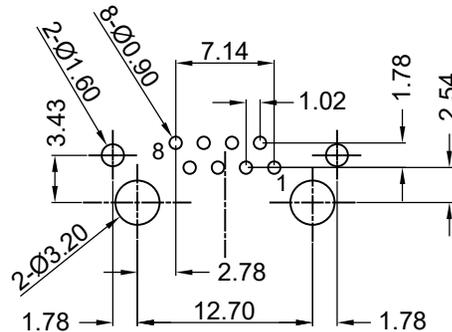
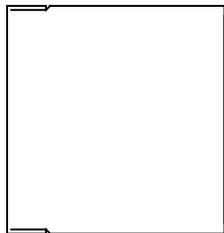
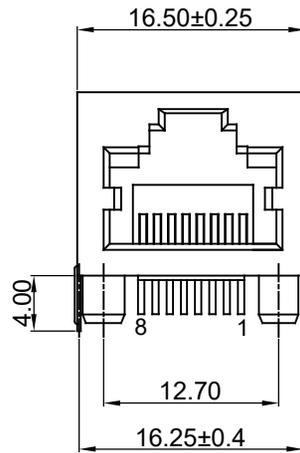
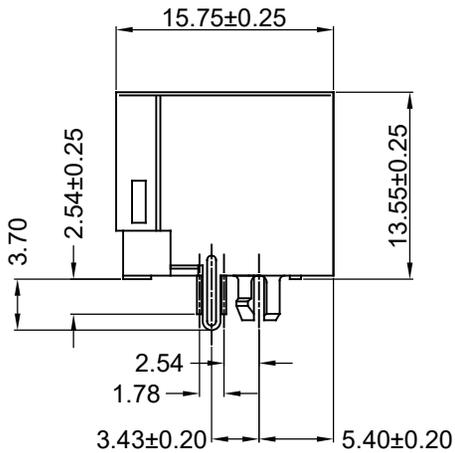


\* UNLESS OTHERWISE SPECIFIED TOLERANCES  
ON DECIMAL IS:  
0.0 ±0.25  
0.00 ±0.13  
0.000 ±0.05

ISSUE NUMBER

ORIGINAL

1



RECOMMENDED P.C.B LAYOUT  
(THICKNESS: 1.6MM)  
(TOP VIEW)

**MATERIALS:**

HOUSING: DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP: 290°C  
BLACK COLOR, UL94V-0

SHIELD: 0.25MM THICK COPPER ALLOY,  
NICKEL PLATED

CONTACTS: 0.35MM THICK PHOSPHOR BRONZE  
WITH SELECTIVE GOLD PLATING ON  
CONTACT AREA AND GOLD FLASH ON  
SOLDER AREA

PART NUMBER

GOLD PLATING

J6H018822N00111  
J6H018832N00111  
J6H018862N00111  
J6H018892N00111

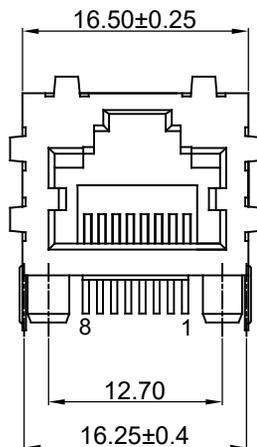
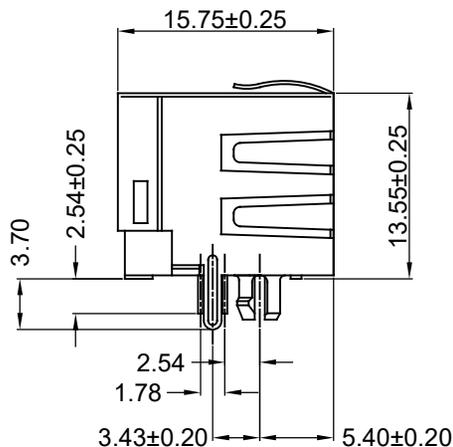
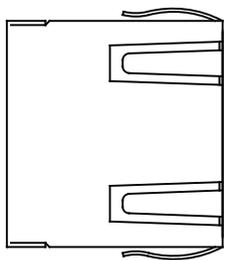
GOLD FLASH  
15u" OF GOLD  
30u" OF GOLD  
50u" OF GOLD

CAVITY CONFIRMS TO FCC RULES AND  
REGULATIONS



THIS SERIES FULLY CONFORMS TO THE  
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2011/65/EU FOR RoHS COMPLIANCY.

<p>MODULAR JACK 8 POSITIONS, NO LED NO EMI FINGERS, RIGHT ANGLE PCB JACK</p>		ACAD REFERENCE NO. J6H018822N00111				
		<table border="1"> <tr> <td>DRAWN: P.M.</td> <td>DATE: JUL. 22/2023</td> </tr> <tr> <td>CHECKED:</td> <td>DATE:</td> </tr> <tr> <td>SCALE: NOT TO SCALE</td> <td>SHEET 1 OF 1</td> </tr> </table>	DRAWN: P.M.	DATE: JUL. 22/2023	CHECKED:	DATE:
DRAWN: P.M.	DATE: JUL. 22/2023					
CHECKED:	DATE:					
SCALE: NOT TO SCALE	SHEET 1 OF 1					
<p>EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY &amp; SERVICE</p>	<p>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EDAC INC. AND SHALL NOT BE REPRODUCED, OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION.</p>	<table border="1"> <tr> <td>DRAWING NUMBER</td> <td>ISSUE</td> </tr> <tr> <td>J6H018822N00111</td> <td>1</td> </tr> </table>	DRAWING NUMBER	ISSUE	J6H018822N00111	1
DRAWING NUMBER	ISSUE					
J6H018822N00111	1					



**MATERIALS:**

**HOUSING:** DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP: 290°C  
BLACK COLOR, UL94V-0

**SHIELD:** 0.25MM THICK COPPER ALLOY,  
NICKEL PLATED

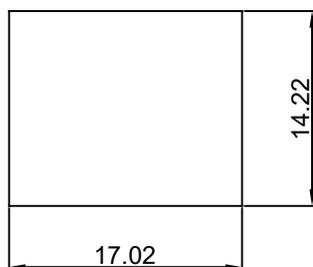
**CONTACTS:** 0.35MM THICK PHOSPHOR BRONZE  
WITH GOLD PLATING

PART NUMBER

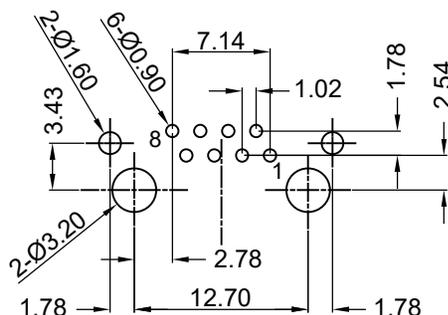
GOLD PLATING

J6H018822N00211  
J6H018832N00211  
J6H018862N00211  
J6H018892N00211

GOLD FLASH  
15u" OF GOLD  
30u" OF GOLD  
50u" OF GOLD



RECOMMENDED PANEL CUT-OUT



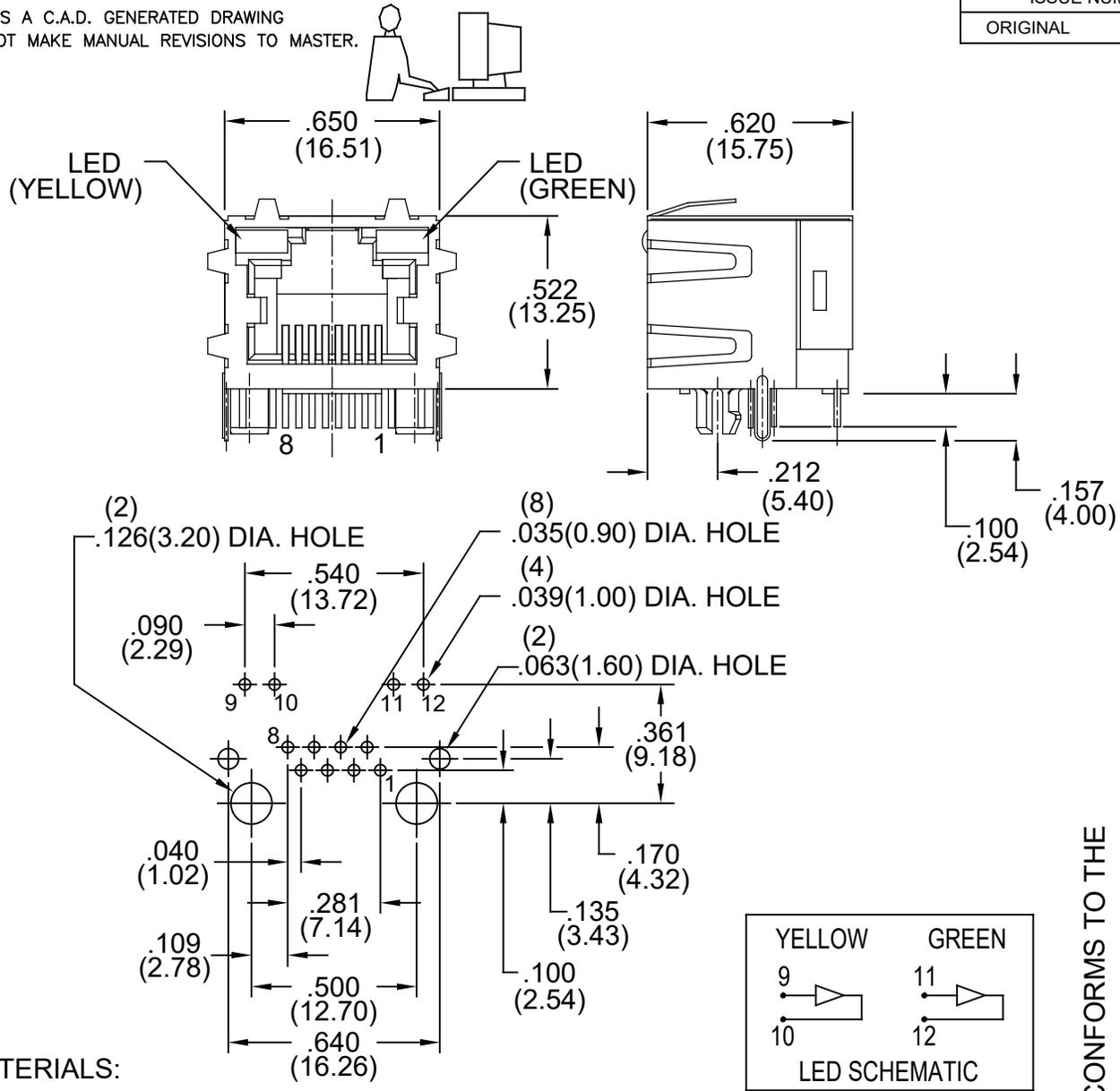
RECOMMENDED P.C.B LAYOUT  
(THICKNESS: 1.6MM)  
(TOP VIEW)



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2011/65/EU FOR RoHS COMPLIANCY.

<b>MODULAR JACK 8 POSITIONS RIGHT ANGLE PCB JACK</b>		ACAD REFERENCE NO.	A00-108-268-900
		DRAWN: R.STA.MONICA	DATE: AUG. 31/10
 EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY & SERVICE		CHECKED:	DATE:
		SCALE: NOT TO SCALE	SHEET 1 OF 1
DRAWING NUMBER			ISSUE
A00-108-268-900			1

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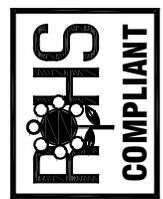


**MATERIALS:**

- HOUSING: NYLON 46, UL94V-0, COLOR BLACK
- CONTACTS: PHOSPHOR BRONZE, WITH SELECTIVE GOLD PLATING OVER NICKEL ON CONTACT AREA  
GOLD FLASH PLATING ON TAILS
- SHIELD: COPPER ALLOY NICKEL PLATED
  - J6H018822N13211 GOLD FLASH
  - J6H018832N13211 15 MICROINCHES OF GOLD
  - J6H018862N13211 30 MICROINCHES OF GOLD
  - J6H018892N13211 50 MICROINCHES OF GOLD

OPERATING TEMPERATURE: -40°C TO +85°C  
CAVITY CONFIRMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F.

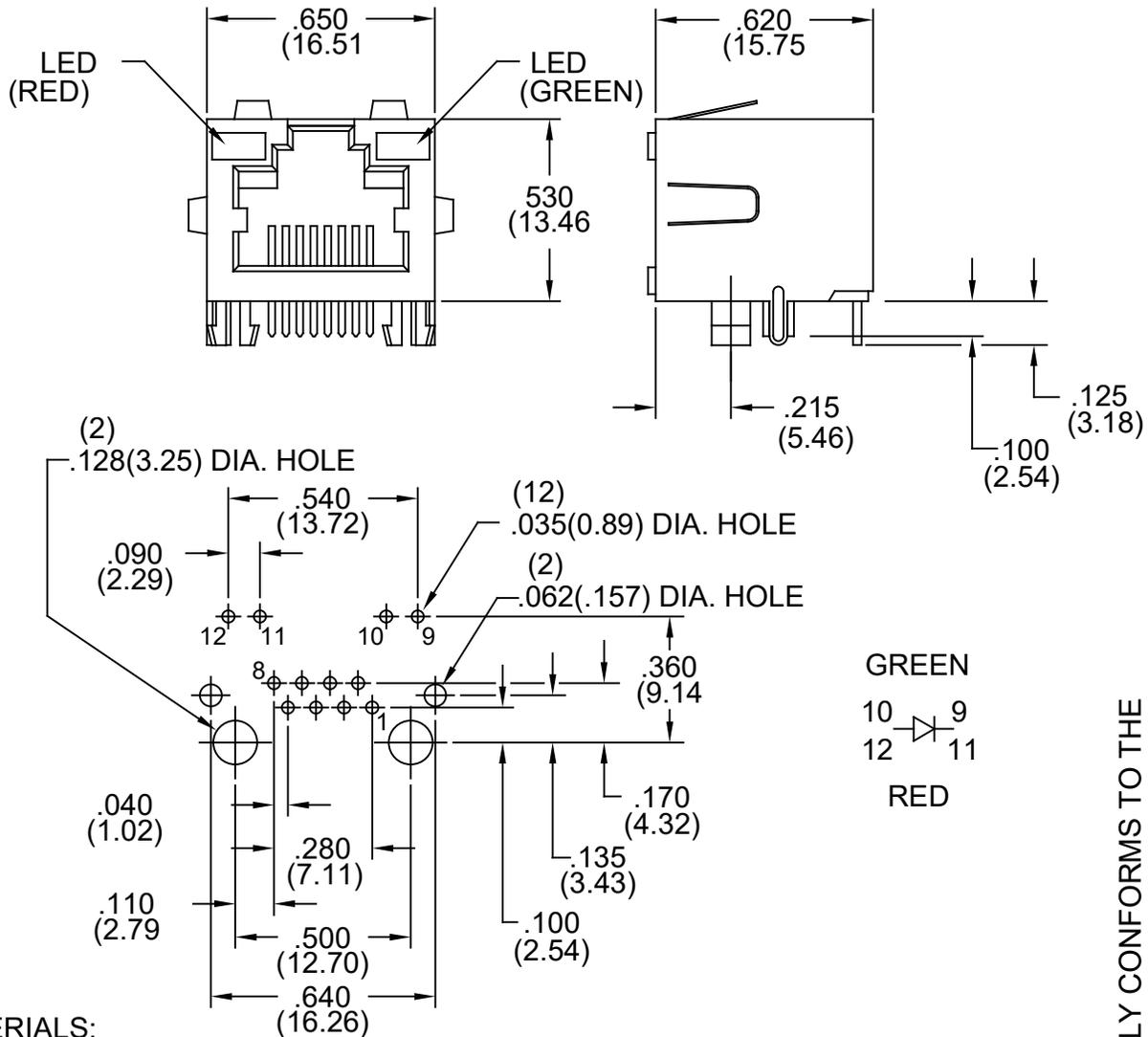
THIS SERIES FULLY CONFORMS TO THE  
EUROPEAN UNION DIRECTIVES  
2011/65/EU FOR RoHS COMPLIANCY.



<p><b>SINGLE PORT, 8 POSITIONS WITH LED'S SHIELDED R/ANGLE PCB</b></p>	ACAD REFERENCE NO. J6H018822N13211	
	DRAWN: P.M.	DATE: JUL.23/2023
	CHECKED:	DATE:
	SCALE:	SHEET 1 OF 1
<p>EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY &amp; SERVICE</p>	DRAWING NUMBER	
	<p><b>J6H018822N13211</b></p>	
		ISSUE
		1



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**MATERIALS:**

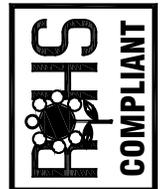
HOUSING: THERMOPLASTIC, UL94V-O  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, WITH GOLD PLATING  
OVER NICKEL ON CONTACT AREA  
TIN ON TAILS

SHIELD: COPPER ALLOY NICKEL PLATED

PART NO.	GOLD PLATING
J6H018822N23211	GOLD FLASH
J6H018832N23211	15 MICROINCHES OF GOLD
J6H018862N23211	30 MICROINCHES OF GOLD
J6H018892N23211	50 MICROINCHES OF GOLD

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2011/65/EU FOR RoHS COMPLIANCY.



**SINGLE PORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**

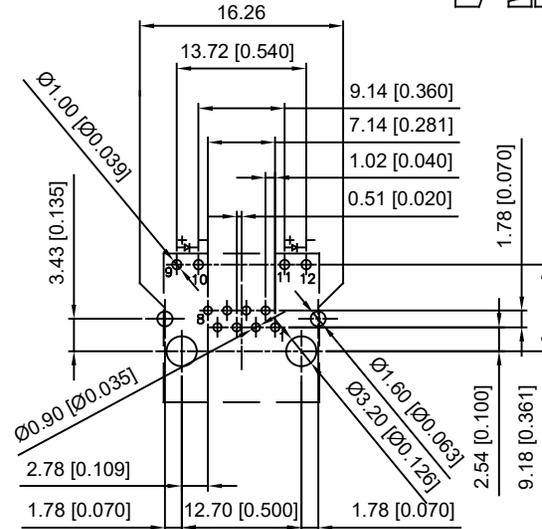
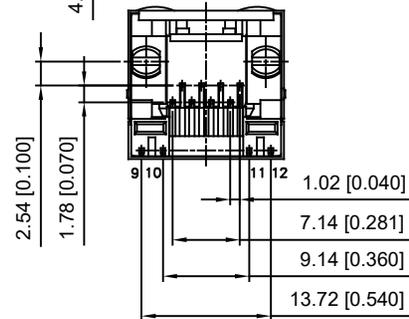
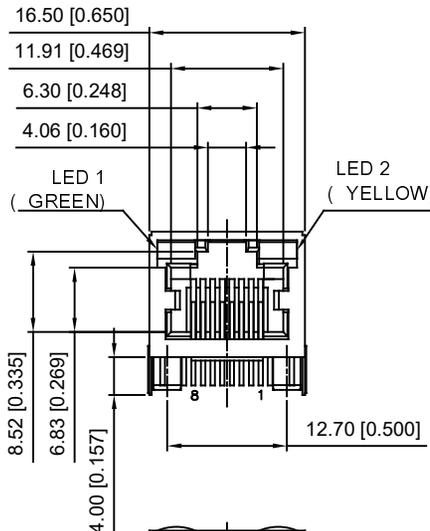
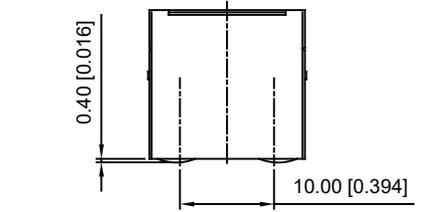
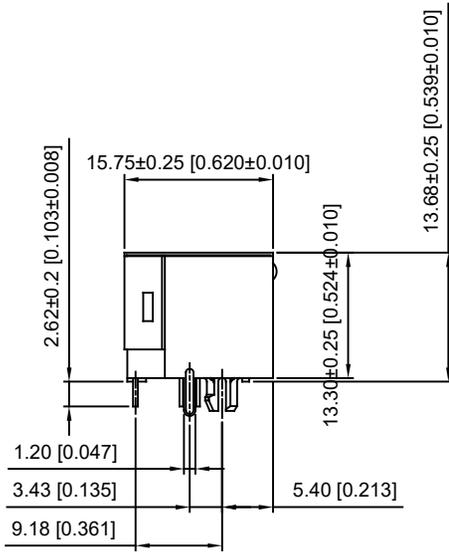
ACAD REFERENCE NO. J6H018822N23211	
DRAWN: P.M.	DATE: JUL.23/2023
CHECKED:	DATE:
SCALE:	SHEET 1 OF 1

TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:  
 0.0 ± 0.25 [0.010]  
 0.00 ± 0.20 [0.008]  
 0.000 ± 0.10 [0.004]

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ISSUE NUMBER	1
ORIGINAL	



**RECOMMENDED P.C.B. LAYOUT**  
**RECOMMENDED TOLERANCE: ±0.05 [±0.002]**

**NOTES:**

**1. MATERIALS:**

HOUSING: DSM STANYL (NYLON-46), HEAT DEFLECTION TEMP 290°C  
 UL 94V-0, BLACK COLOR

SHIELD: 0.25MM COPPER ALLOY WITH NICKEL PLATING

CONTACTS: PHOSPHOR BRONZE PLATED WITH SELECTIVE  
 GOLD PLATING AND GOLD FLASH IN SOLDER AREA

PART NO	GOLD PLATING THICKNESS
J6H018822N31111	GOLD FLASH PLATING
J6H018832N31111	15 MICRO INCHES OF GOLD
J6H018862N31111	30 MICRO INCHES OF GOLD
J6H018892N31111	50 MICRO INCHES OF GOLD

- 2. MATE WITH MODULAR PLUG CONFORMING TO  
 FCC PART 68, SUBPART F.**
- 3. DIMENSION: MM [INCHES]**



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 2011/65/EU FOR RoHS COMPLIANCY.

**RJ45 TAB UP, 8 POSITION, WITH LED, SHIELDED**

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ACAD REFERENCE NO.: J6H018822N31111

DRAWN: P.M.

DATE: JUL.23/2023

CHECKED:

DATE:

PART NUMBER

**SEE GOLD PLATING**

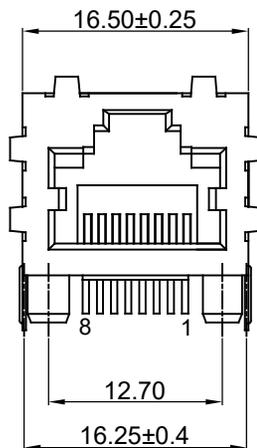
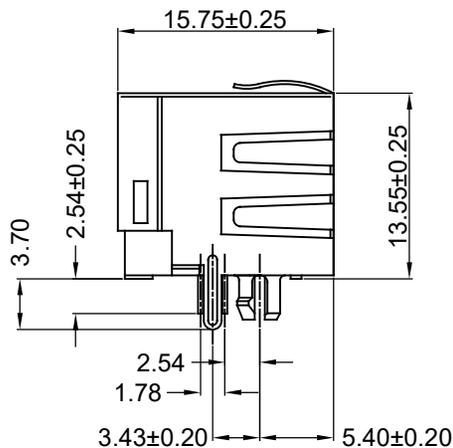
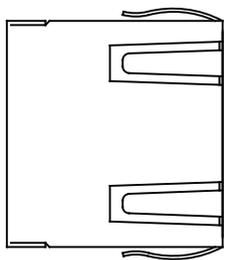
SHEET 1 OF 1

DRAWING NUMBER

**J6H018822N31111**

ISSUE

1



**MATERIALS:**

**HOUSING:** DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP: 290°C  
BLACK COLOR, UL94V-0

**SHIELD:** 0.25MM THICK COPPER ALLOY,  
NICKEL PLATED

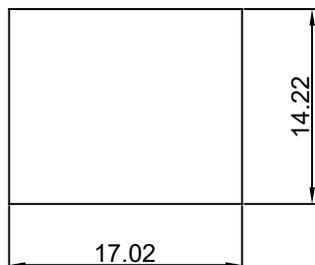
**CONTACTS:** 0.35MM THICK PHOSPHOR BRONZE  
WITH GOLD PLATING

PART NUMBER

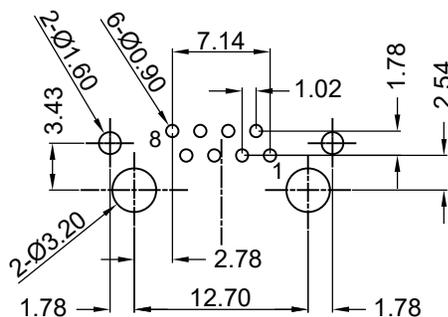
GOLD PLATING

- J6H018822N00211
- J6H018832N00211
- J6H018862N00211
- J6H018892N00211

- GOLD FLASH
- 15u" OF GOLD
- 30u" OF GOLD
- 50u" OF GOLD



RECOMMENDED PANEL CUT-OUT



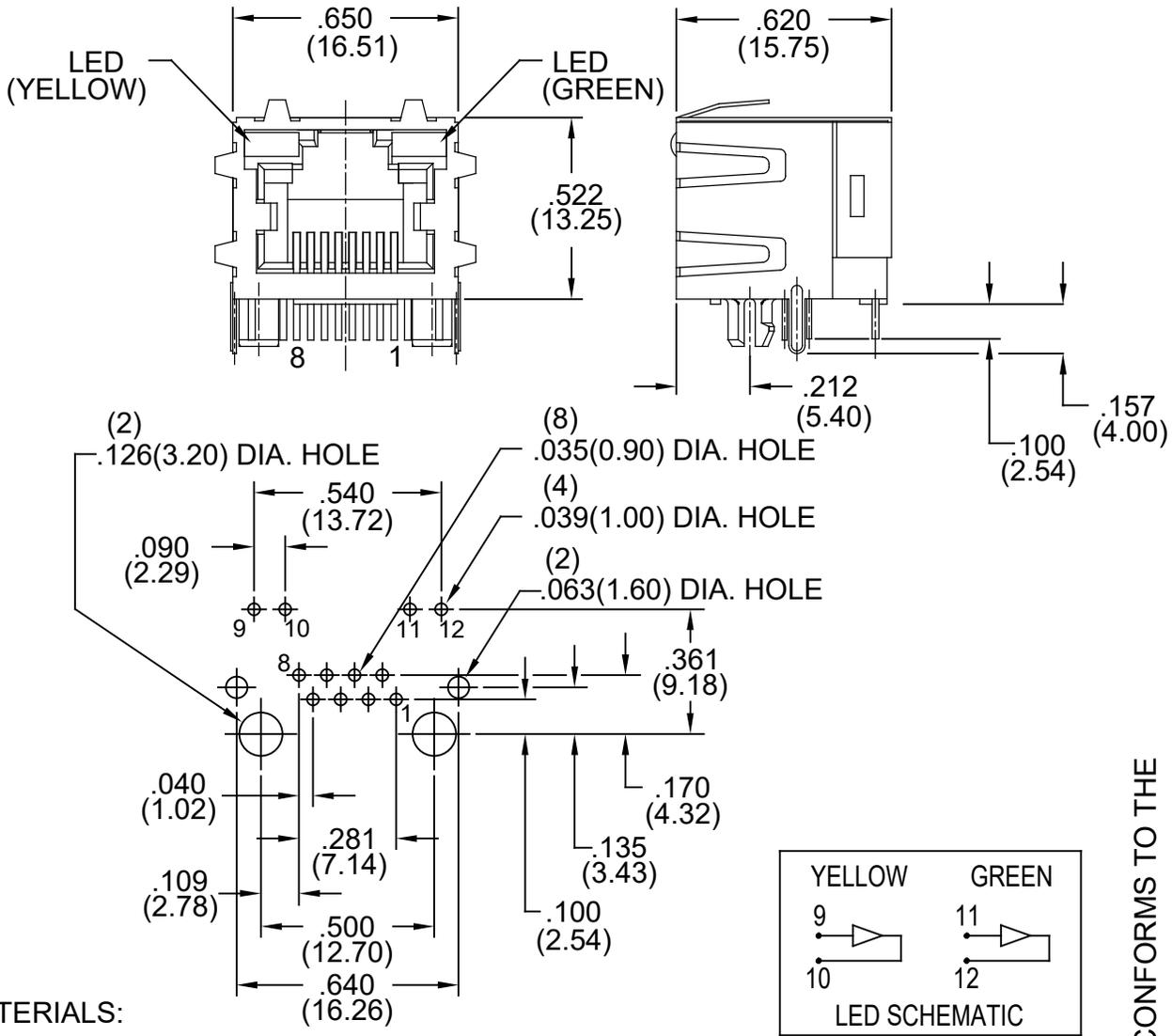
RECOMMENDED P.C.B LAYOUT  
(THICKNESS: 1.6MM)  
(TOP VIEW)



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THE EUROPEAN UNION DIRECTIVES  
2011/65/EU FOR RoHS COMPLIANCY.

<b>MODULAR JACK 8 POSITIONS RIGHT ANGLE PCB JACK</b>		ACAD REFERENCE NO.	A00-108-268-900
		DRAWN: R.STA.MONICA	DATE: AUG. 31/10
 EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY & SERVICE		CHECKED:	DATE:
		SCALE: NOT TO SCALE	SHEET 1 OF 1
DRAWING NUMBER			ISSUE
A00-108-268-900			1

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**MATERIALS:**

HOUSING: NYLON 46, UL94V-0, COLOR BLACK

CONTACTS: PHOSPHOR BRONZE, WITH SELECTIVE GOLD  
PLATING OVER NICKEL ON CONTACT AREA  
GOLD FLASH PLATING ON TAILS

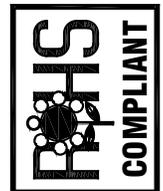
SHIELD: COPPER ALLOY NICKEL PLATED

- J6H018822N13211 GOLD FLASH
- J6H018832N13211 15 MICROINCHES OF GOLD
- J6H018862N13211 30 MICROINCHES OF GOLD
- J6H018892N13211 50 MICROINCHES OF GOLD

OPERATING TEMPERATURE: -40°C TO +85°C

CAVITY CONFIRMS TO FCC RULES AND REGULATIONS  
PART 68, SUBPART F.

THIS SERIES FULLY CONFORMS TO THE  
EUROPEAN UNION DIRECTIVES  
2011/65/EU FOR RoHS COMPLIANCY.



SINGLE PORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB

ACAD REFERENCE NO. J6H018822N13211

DRAWN: P.M. DATE: JUL.23/2023

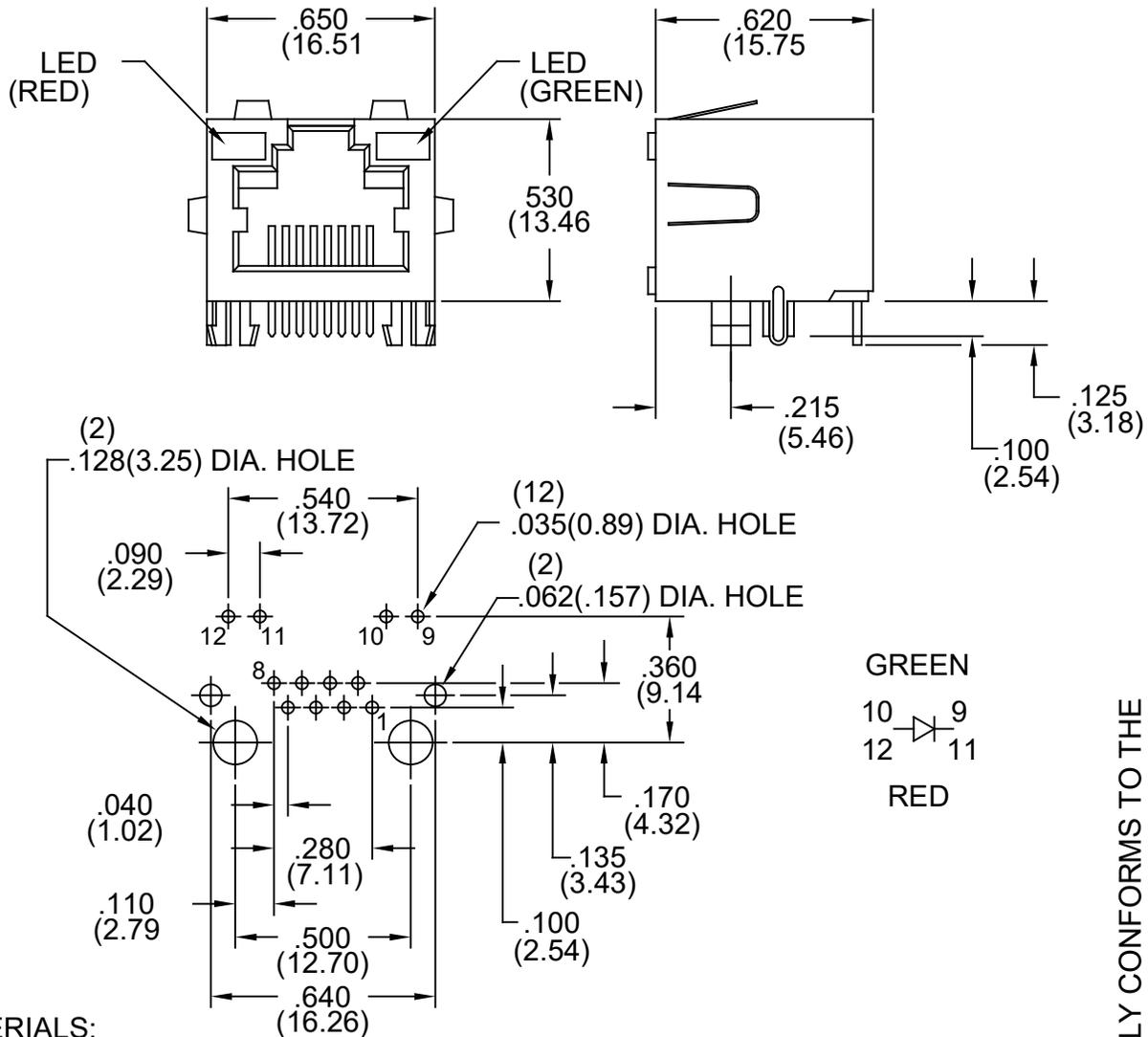
CHECKED: DATE:

SCALE: SHEET 1 OF 1

DRAWING NUMBER ISSUE

J6H018822N13211

1



**MATERIALS:**

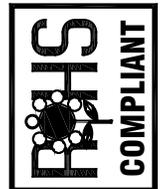
HOUSING: THERMOPLASTIC, UL94V-O  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, WITH GOLD PLATING  
OVER NICKEL ON CONTACT AREA  
TIN ON TAILS

SHIELD: COPPER ALLOY NICKEL PLATED

PART NO.	GOLD PLATING
J6H018822N23211	GOLD FLASH
J6H018832N23211	15 MICROINCHES OF GOLD
J6H018862N23211	30 MICROINCHES OF GOLD
J6H018892N23211	50 MICROINCHES OF GOLD

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2011/65/EU FOR RoHS COMPLIANCY.



**SINGLE PORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**

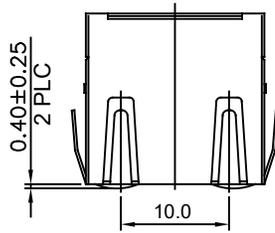
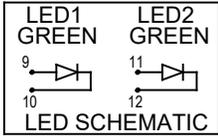
ACAD REFERENCE NO. J6H018822N23211	
DRAWN: P.M.	DATE: JUL.23/2023
CHECKED:	DATE:
SCALE:	SHEET 1 OF 1

TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.13
.XXX	±0.05

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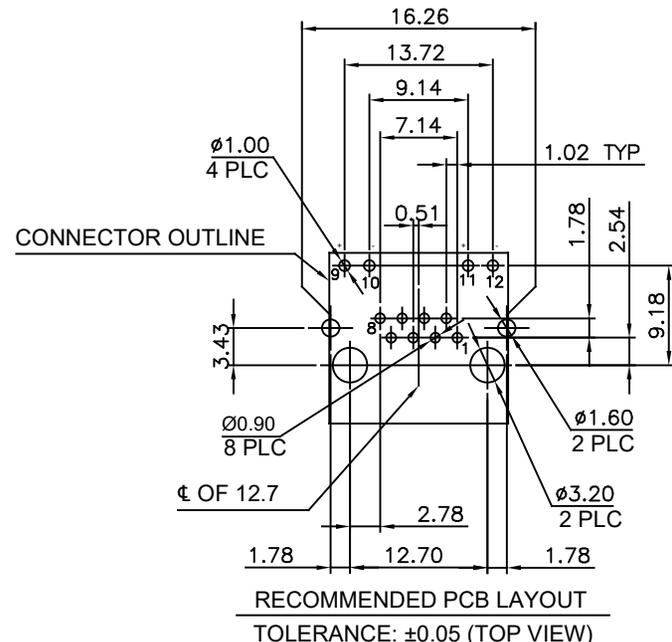
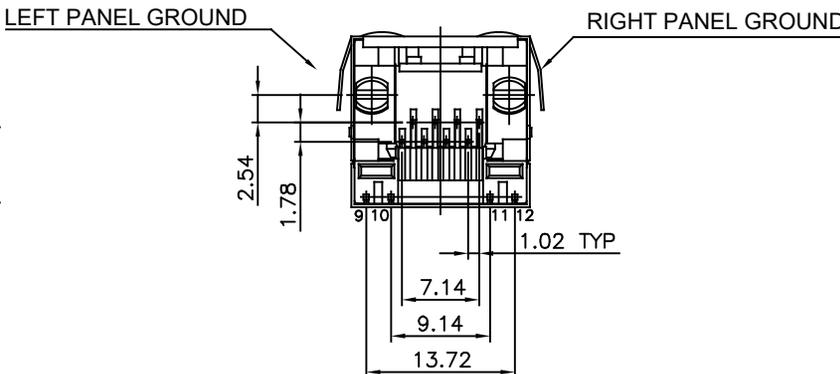
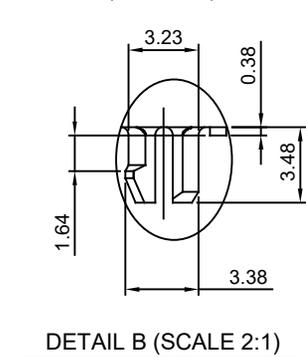
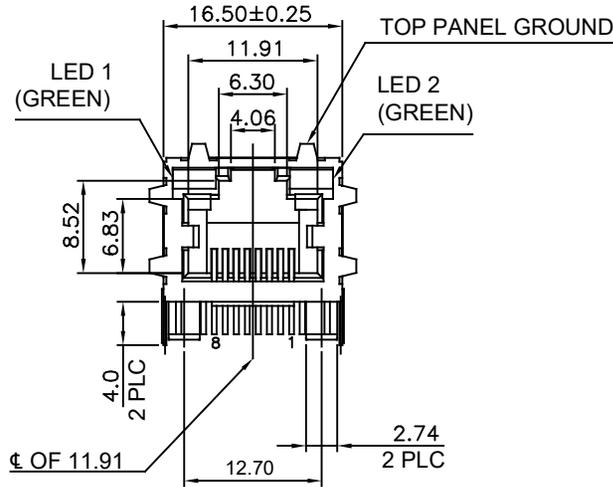
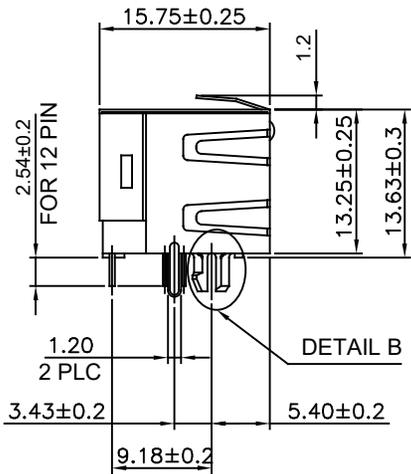
ISSUE NUMBER	
ORIGINAL	①



**SPECIFICATIONS:**

Housing Material: NYLON-46, UL 94V-0, BLACK  
 Contact Material: 0.35mm THICK PHOSPOR BRONZE PLATED WITH GOLD  
 Shield Material: 0.20mm COPPER ALLOY, NICKEL PLATED  
 Heat Deflection Temperature: 290°C

PART NUMBER	GOLD PLATING
J6H018822N33211	GOLD FLASH PLATING
J6H018832N33211	15µ" GOLD FLASH PLATING
J6H018862N33211	30µ" GOLD FLASH PLATING
J6H018892N33211	50µ" GOLD FLASH PLATING



SINGLE PORT, 8 POSITIONS WITH LED'S SHIELDED R/ANGLE PCB		ACAD REFERENCE NO. J6H018822N33211	
DRAWN: P.M.		DATE: JUL.23/2023	
CHECKED: R.S.M.		DATE: JUL.23/2023	
SCALE: (IN C.A.D. 1:1)		SHEET 1 OF 1	
PART NUMBER		ISSUE	
SEE TABLE		1	



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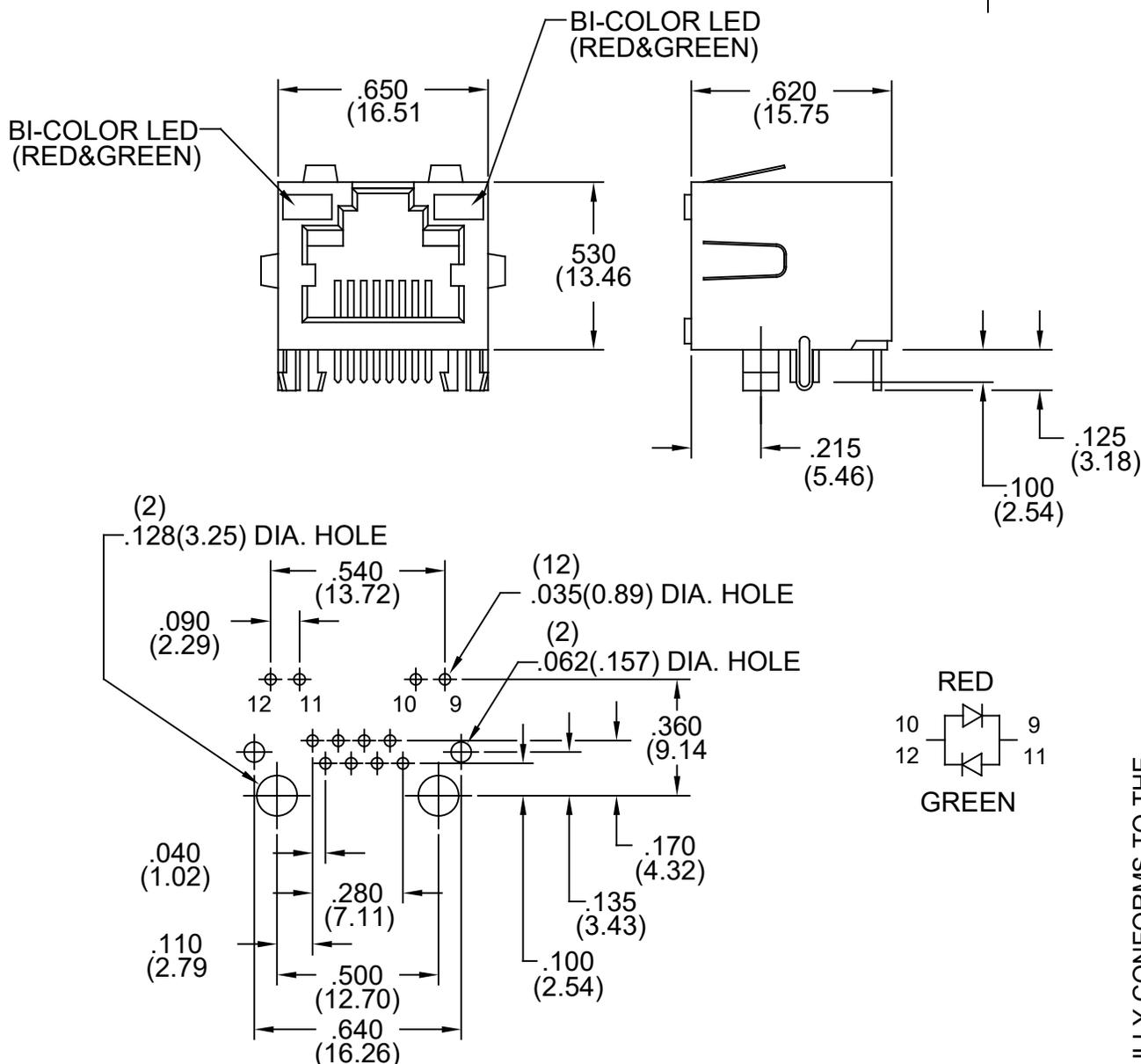
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ISSUE NUMBER

ORIGINAL

①



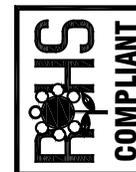
**MATERIALS:**

HOUSING: THERMOPLASTIC, UL94V-O  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, WITH 30 MICROINCHES  
OF GOLD OVER NICKEL ON CONTACT AREA  
TIN ON TAILS

SHIELD: COPPER ALLOY NICKEL PLATED

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2011/65/EU FOR RoHS COMPLIANCY.



SINGLE PORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB

ACAD REFERENCE NO. J6H018862N66211

DRAWN: P.M.

DATE: JUL.23/2023

CHECKED:

DATE:

SCALE:

SHEET 1 OF 1

DRAWING NUMBER

J6H018862N66211

ISSUE

1

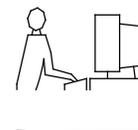


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MANUFACTURE OR SALE OF APPARATUS  
WITHOUT WRITTEN PERMISSION.

TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:

.XX ±0.25  
.XXX ±0.13  
.X.X ±2°

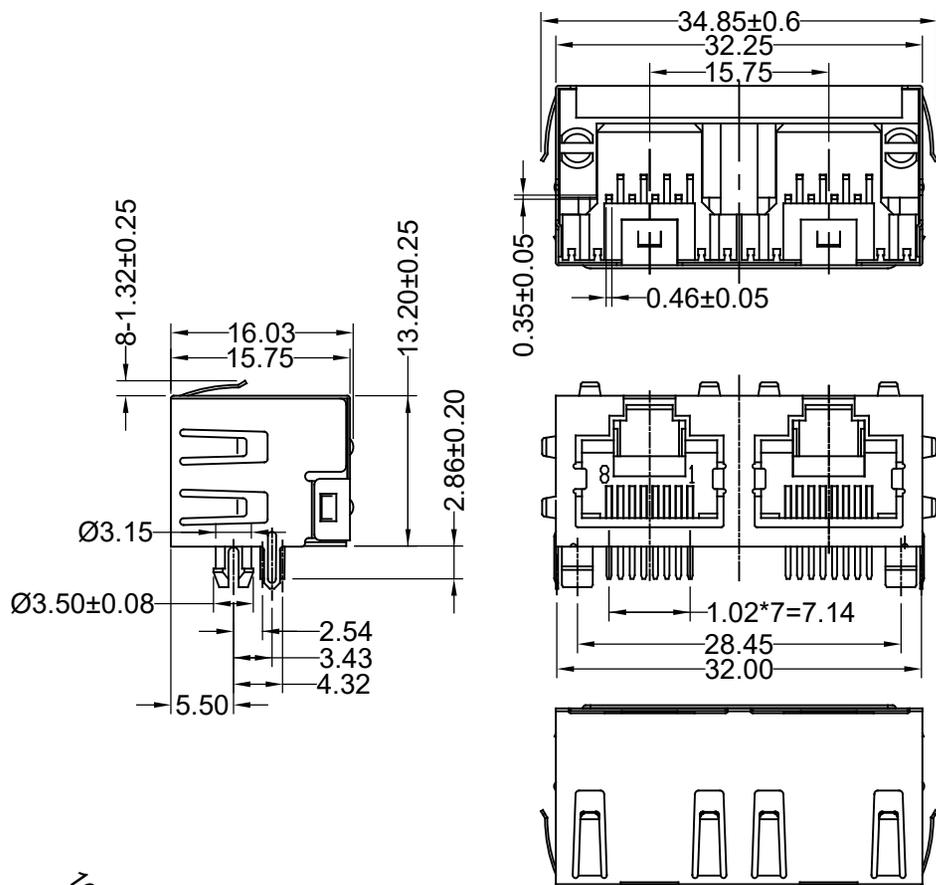
THIS IS A C.A.D. GENERATED DRAWING  
DO NOT MAKE MANUAL REVISIONS TO MASTER.



ISSUE NUMBER

ORIGINAL

1



**NOTES:**

**ELECTRICAL:**

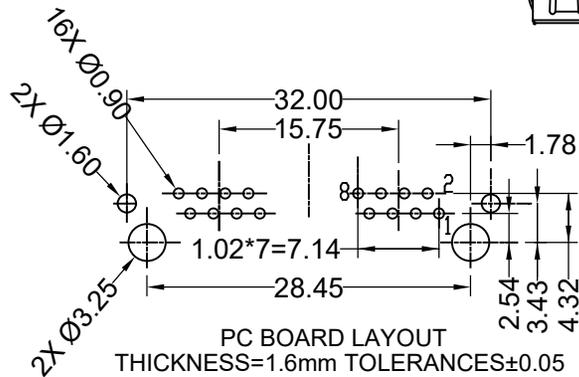
1. VOLTAGE RATING: 150 VAC RMS.
2. CURRENT RATING: 1.5 AMPS@25°C
3. CONTACT RESISTANCE: 20 mΩ Max.
4. INSULATION RESISTANCE: 1000 MΩ Min. @500VDC.
5. WITHSTAND VOLTAGE 1000V DC OR AC PEAK; ONE CONTACT TO ALL OTHER CONTACTS CONNECTED TOGETHER 1500V DC OR AC PEAK; ALL CONTACTS CONNECTED TOGETHER TO SHIELD, (HOUSING/MOUNTING PLATE) IF PRESENT @0.5mA 50Hz or 60Hz A MINUTE.

**MECHANICAL:**

1. HOUSING & INSERT MATERIAL : PA66, UL94V-0, BLACK
2. CONTACT MATERIAL: PHOSPHOR BRONZE T=0.35mm.
3. CONTACT PLATING: GOLD-FLASH PLATING.  
TAILS PLATING TIN OVER NICKEL.
4. MATING/UNMATING FORCE: 30N Max..
5. RETENTION STRENGTH: 50N FOR 60s±5s.
6. DURABILITY: 750 CYCLES .
7. SHIELD: BRASS T=0.2mm PLATED NICKEL FOR ALL.

**ENVIRONMENTAL:**

1. STORAGE TEMPERATURE: -40°C~+85°C RELATIVE HUMIDITY<80%
  2. OPERATION TEMPERATURE: -40°C~+85°C
  3. WAVE-SOLDERING: 265±5°C 10S
- MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



**8 POSITIONS JACK SIDE ENTRY 2 PORTS SHIELDED**

ACAD REFERENCE NO.: J6H028822N00111

DRAWN: P.M. DATE: JUL.31/2023

CHECKED: R.S.M. DATE: JUL.31/2023

SCALE: (IN C.A.D. 1:1) SHEET 1 OF 1

DRAWING NUMBER: J6H028822N00111 ISSUE

PART NUMBER: J6H028822N00111 1



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TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:  
 0 ± 0.38 ANGLE ± 1°  
 0.0 ± 0.25  
 0.00 ± 0.13  
 0.000 ± 0.05

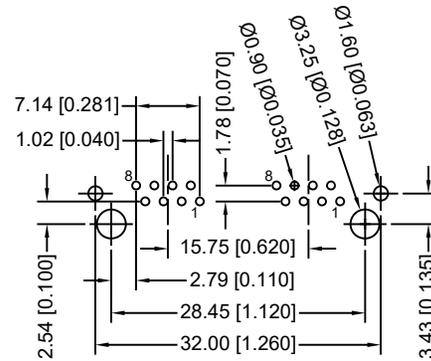
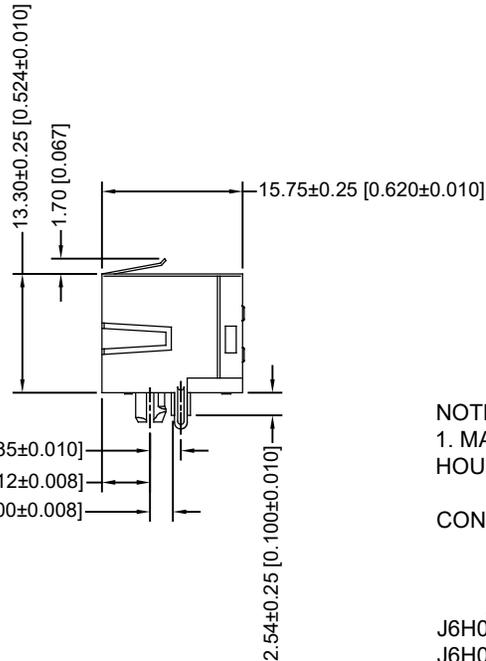
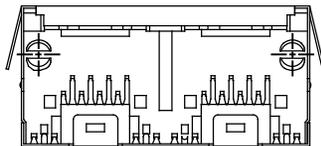
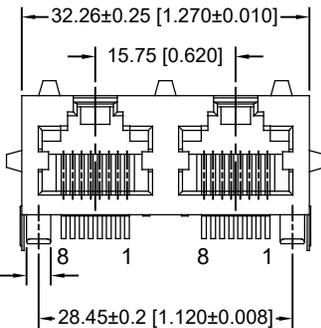
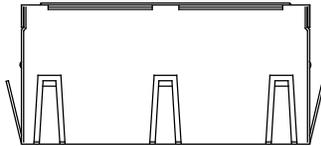
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ISSUE NUMBER

ORIGINAL

1



**RECOMMENDED P.C.B. LAYOUT**

**NOTES:**

**1. MATERIALS:**

HOUSING: DSM STANYL TE25F06 (NYLON-46),  
 UL94 V-0, COLOR: BLACK

CONTACTS: 0.35MM PHOSPHOR BRONZE PLATED WITH  
 SELECTIVE GOLD PLATING AND GOLD FLASH ON SOLDER AREA

PART NO	GOLD PLATING THICKNESS
J6H028822N00211	GOLD FLASH PLATING
J6H028832N00211	15 MICRO INCHES OF GOLD
J6H028862N00211	30 MICRO INCHES OF GOLD
J6H028892N00211	50 MICRO INCHES OF GOLD

SHIELD: 0.25MM COPPER ALLOY WITH NICKEL PLATING

2. MATE WITH MODULAR PLUG CONFORMING TO  
 FCC PART 68, SUBPART F.

3. DIMENSION: MM [INCHES]



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**RJ45 DUAL PORT WITHOUT LED  
 SHIELDED, SIDE ENTRY PCB JACK**



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ACAD REFERENCE NO.: J6H028822N00211

DRAWN: R.STA.MONICA

DATE: AUG.19/2011

CHECKED:

DATE:

PART NUMBER

**SEE NOTE**

SHEET 1 OF 1

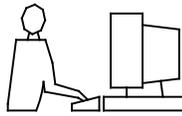
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**J6H028822N00211**

ISSUE

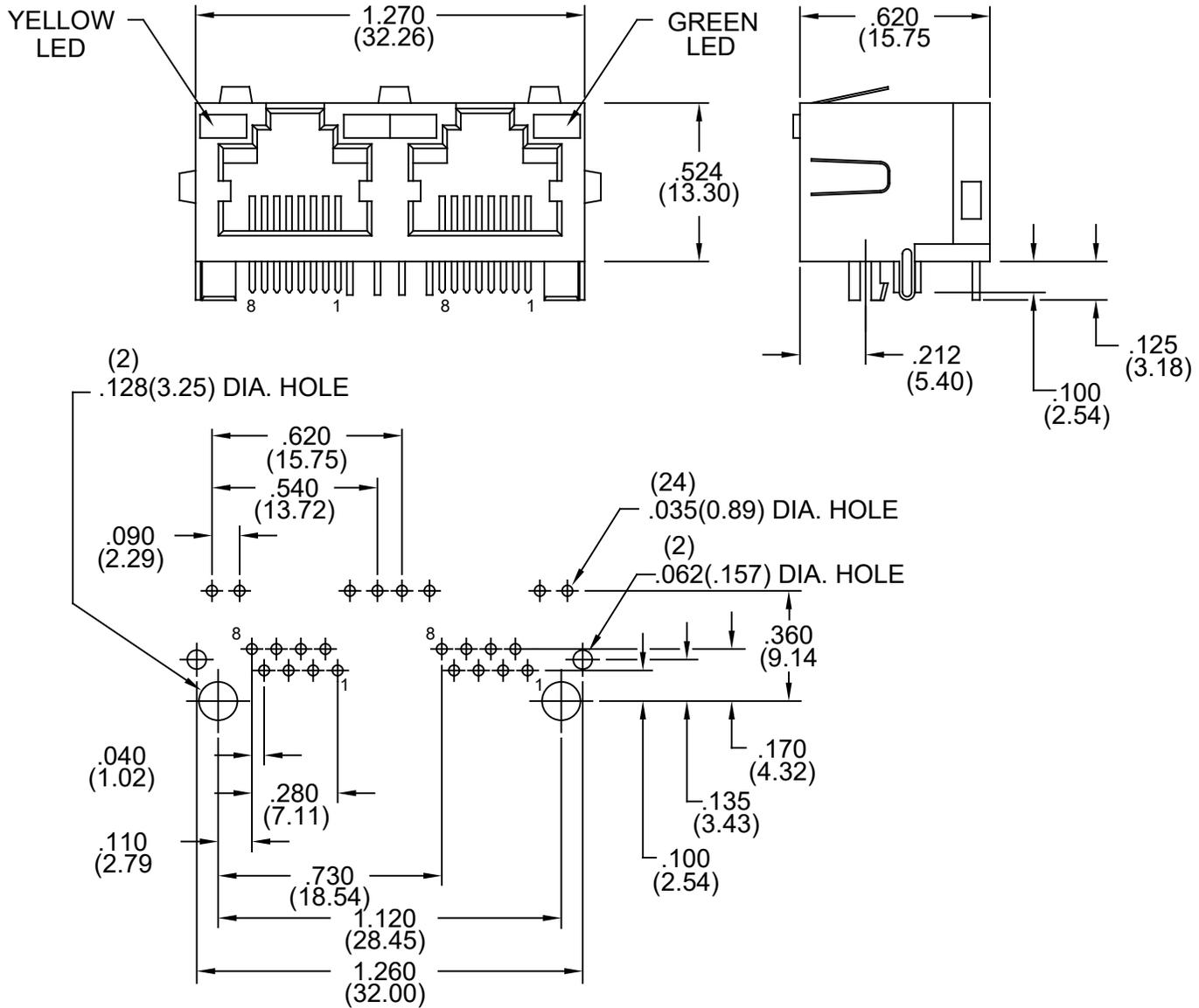
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ISSUE NUMBER

ORIGINAL ①



- J6H028822N13211 GOLD FLASH
- J6H028832N13211 15 MICROINCHES OF GOLD
- J6H028862N13211 30 MICROINCHES OF GOLD
- J6H028892N13211 50 MICROINCHES OF GOLD



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2011/65/EU FOR RoHS COMPLIANCY.

**MATERIAL AND FINISH:**

BODY: HOUSING: HIGH TEMP. THERMOLASTIC  
(9DSM STANYL TE 250F6) OR SIMILAR  
HEAT DEFLECTION TEMP, 290°, BLACK, UL94V-0

CONTACTS: PHOSPHOR BRONZE(0.35mm DIA.)  
PLATED AS PER PART NO. TABLE

SHIELD: 0.25mm THICK COPPER ALLOY  
PLATED NICKEL

CAVITY CONFORMS TO FCC RULES AND  
REGULATIONS PART 68, SUBPART F

**DUALPORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**

ACAD REFERENCE NO. J6H028822N13211

DRAWN: F.BRIONES DATE: MAR.24/08

PART NUMBER

**SEE DWG**

DRAWING NUMBER

**J6H028822N13211**

ISSUE

1



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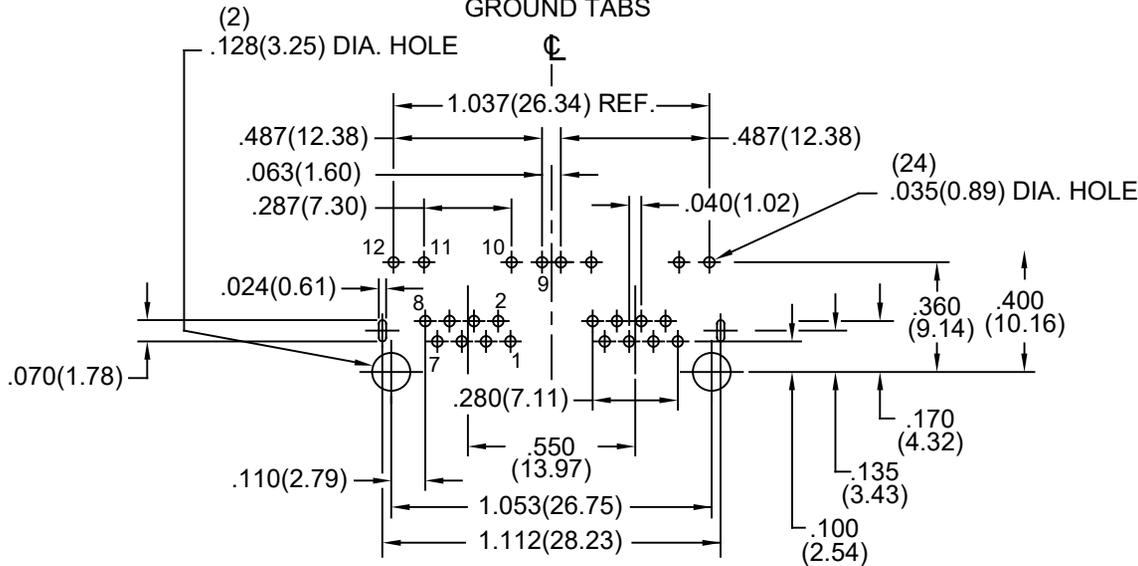
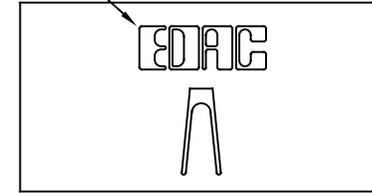
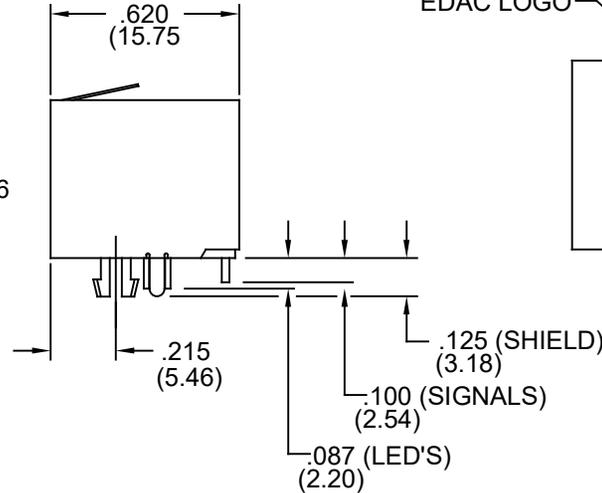
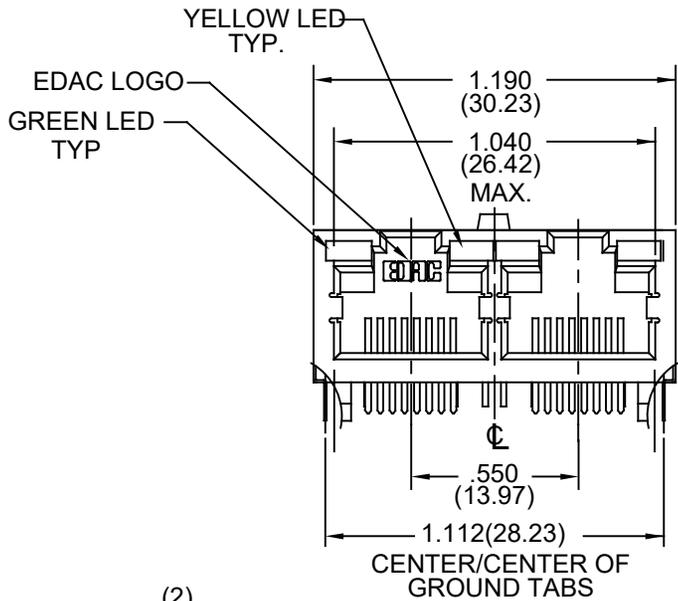
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ISSUE NUMBER

ORIGINAL

1



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**MATERIALS:**

HOUSING: NYLON-46, UL94V-0, HEAT DEFLECTION TEMP. 290°C  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, WITH HARD GOLD AND GOLD FLASH ON SOLDER AREA.

SHIELD: COPPER ALLOY NICKEL PLATED

**TWO PORTS, 8 POSITIONS WITH LED'S SHIELDED R/ANGLE PCB**



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ACAD REFERENCE NO. J6H028822N31311

DRAWN: P.M.

DATE: JUL.23/2023

PART NUMBER

J6H028822N31311

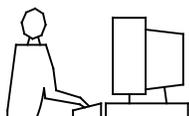
SHEET 1 OF 2

DRAWING NUMBER

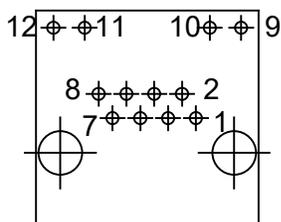
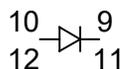
J6H028822N31311

ISSUE

1



TYP. FOR SINGLE  
COLOR LED'S



TYP. FOR SINGLE ROW

**MATERIALS:**

- SHIELD: COPPER ALLOY, TIN PLATED
- CONTACTS: PHOSPHOR BRONZE, GOLD PLATED OVER NICKEL  
(GOLD PLATED THICKNESS AS PER PART NO.EXTRUCTION)
- HOUSING: HIGH TEMP. THERMOPLASTIC, BLACK UL94V-0

**ELECTRICAL SPECIFICATIONS**

- CONTACT RESISTANCE: 20 MILLIOHMS MAX.
- INSULATION RESISTANCE: 500 MEGOHMS MIN.
- CURRENT RATING: 1.5 AMPS
- VOLTAGE RATING: 125 VAC
- DWV: 1000 VAC, RMS. 60 Hz 1 MIN.

**STANDARD LED'S: FOR 5.0 VOLTS SYSTEMS**

- FORWARD VOLTAGE: 2.1 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 0.5 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

**LOW CURRENT LED'S: FOR 3.3 VOLTS SYSTEMS**

- FORWARD VOLTAGE: 2.0 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 1.0 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

**OTHER PARAMETERS:**

- STORAGE TEMPERATURE: -20°C TO +85°C
- LEAD SOLDERING TEMPERATURE: 260°C (5 SEC.)

**MODULAR JACKS/LED'S**  
ELECTRICAL SPECIFICATIONS

ACAD REFERENCE NO. J6H028822N31311	
DRAWN: P.M.	DATE: JUL.23/2023
PART NUMBER <b>J6H028822N31311</b> SHEET 2 OF 2	
DRAWING NUMBER <b>J6H028822N31311</b>	ISSUE 1



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NOTE:

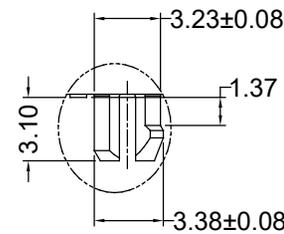
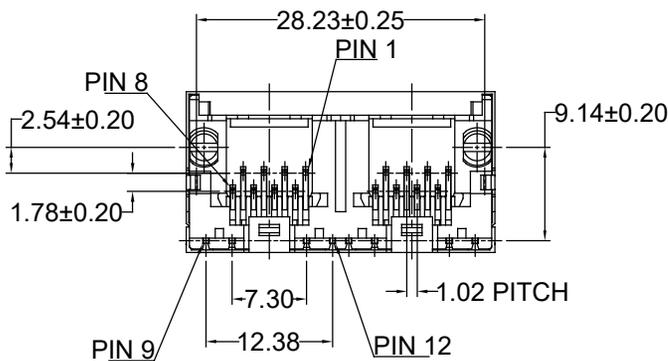
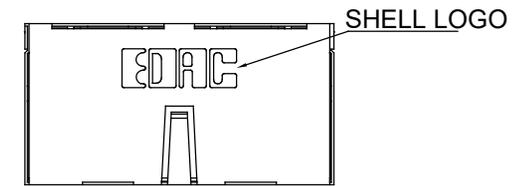
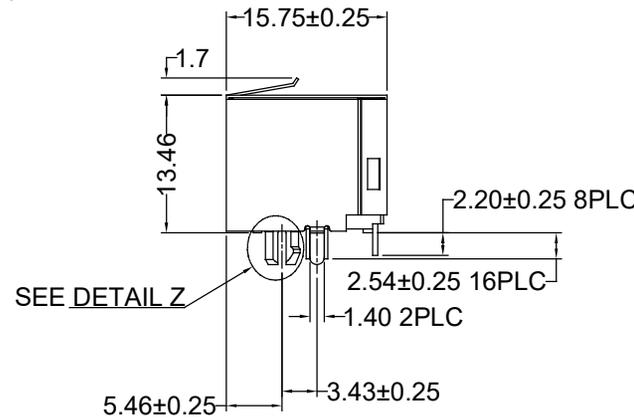
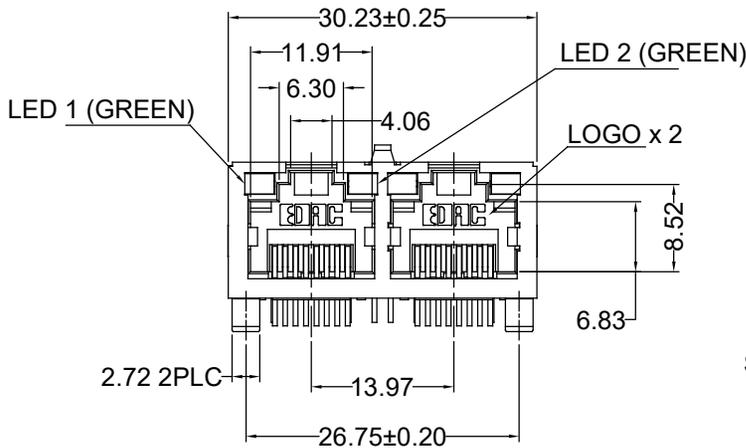
CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBSECTION F.

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
X ± -  
X.X ±0.25  
X.XX ±0.13  
X.XXX ±0.05  
ANGLES ± -

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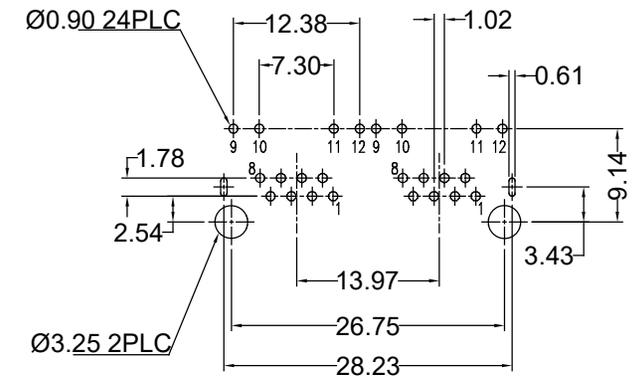


1. MATERIAL:
- 1.1 HOUSING: PA46 WITH GLASS FIBRE, UL 94V-0, STANDARD COLOUR - BLACK.
  - 1.2 INSERT HOUSING: PA46 WITH GLASS FIBRE, UL 94V-0, STANDARD COLOUR - BLACK.
  - 1.3 CONTACTS: PHOSPHOR BRONZE.
  - 1.4 SHELL: BRASS.
  - 1.5 LED SOLDER TAIL: STEEL.
2. FINISH:
- 2.1 CONTACTS: 0.152µm [6µ"] GOLD PLATED ON CONTACT AREA, GOLD FLASH ON SOLDER TAIL, 1.27µm [50µ"] MIN. NICKEL UNDERPLATED
  - 2.2 SHELL: 0.508µm [20µ"] MIN. NICKEL PLATED.
  - 2.3 LED SOLDER TAIL: 2.032µm [80µ"] MIN. TIN PLATED.



DETAIL Z  
SCALE 2:1

9+---10 11+---12  
LED SCHEMATIC



RECOMMENDED PCB LAYOUT  
PCB THICKNESS: 1.6mm  
TOLERANCE: ±0.05mm (TOP VIEW)



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TWO PORTS, 8 POSITIONS WITH LED'S SHIELDED R/ANGLE PCB



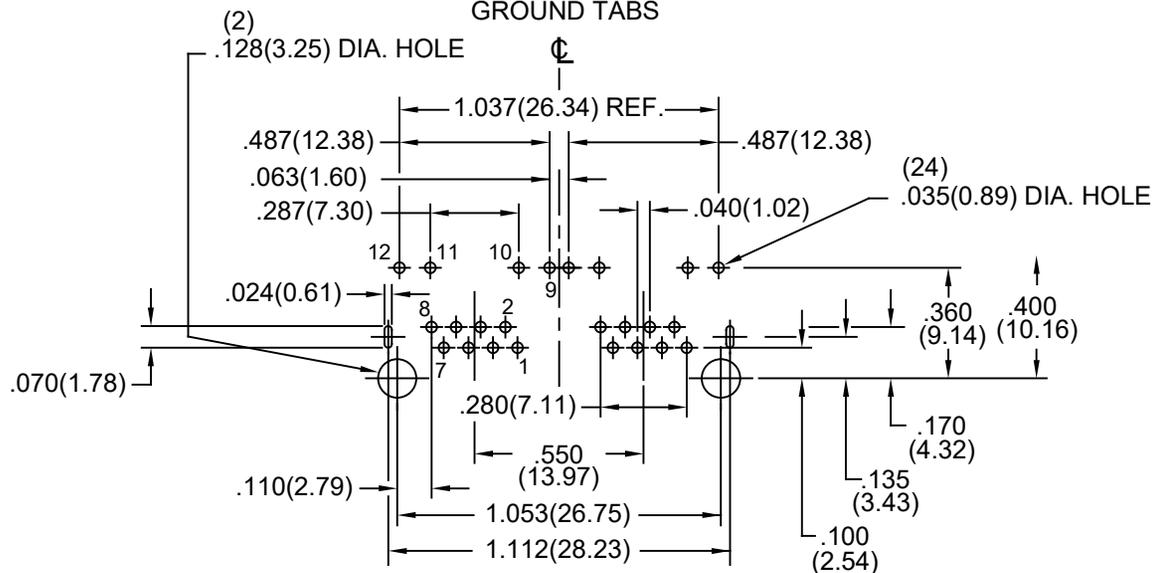
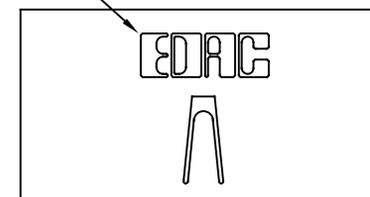
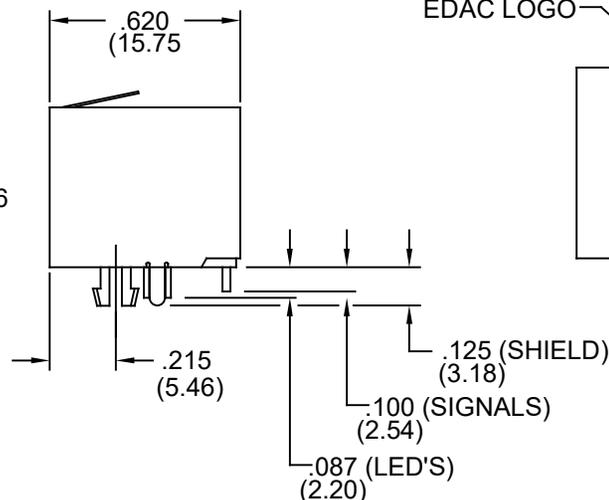
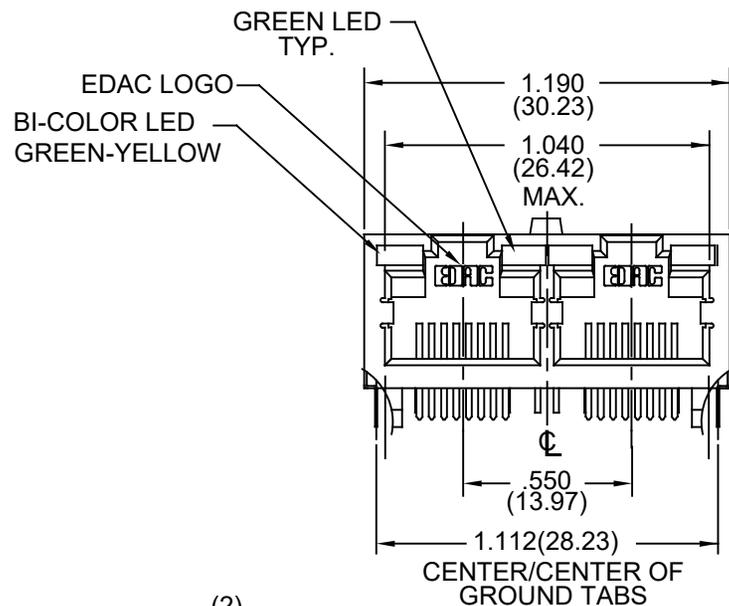
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ACAD REFERENCE NO.	J6H028822N33211
DRAWN: P.M.	DATE: JUL.23/2023
PART NUMBER J6H028822N33211	
SHEET 1 OF 1	
DRAWING NUMBER J6H028822N33211	ISSUE 1

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MATERIALS:  
HOUSING: NYLON-46, UL94V-0, HEAT DEFLECTION TEMP. 290°C  
COLOR BLACK.  
CONTACTS: PHOSPHOR BRONZE, WITH HARD GOLD  
AND GOLD FLASH ON SOLDER AREA.  
SHIELD: COPPER ALLOY NICKEL PLATED

**TWO PORTS, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**



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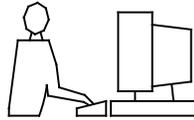
DRAWN: R.STA.MONICA DATE: JUL.23/2023

PART NUMBER  
**J6H028822N53211**

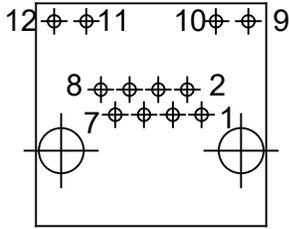
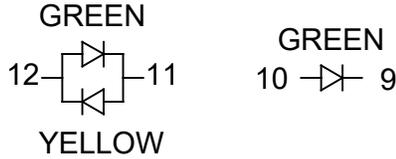
SHEET 1 OF 2

DRAWING NUMBER  
**J6H028822N53211**

ISSUE  
**1**



LED SCHEMATIC



TYP. FOR SINGLE ROW

MATERIALS:

- SHIELD: COPPER ALLOY, TIN PLATED
- CONTACTS: PHOSPHOR BRONZE, GOLD PLATED OVER NICKEL  
(GOLD PLATED THICKNESS AS PER PART NO. EXTRACTION)
- HOUSING: HIGH TEMP. THERMOPLASTIC, BLACK UL94V-0

ELECTRICAL SPECIFICATIONS

- CONTACT RESISTANCE: 20 MILLIOHMS MAX.
- INSULATION RESISTANCE: 500 MEGOHMS MIN.
- CURRENT RATING: 1.5 AMPS
- VOLTAGE RATING: 125 VAC
- DWV: 1000 VAC, RMS. 60 Hz 1 MIN.

STANDARD LED'S: FOR 5.0 VOLTS SYSTEMS

- FORWARD VOLTAGE: 2.1 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 0.5 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

LOW CURRENT LED'S: FOR 3.3 VOLTS SYSTEMS

- FORWARD VOLTAGE: 2.0 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 1.0 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

OTHER PARAMETERS:

- STORAGE TEMPERATURE: -20°C TO +85°C
- LEAD SOLDERING TEMPERATURE: 260°C (5 SEC.)

**MODULAR JACKS/LED'S**  
ELECTRICAL SPECIFICATIONS

ACAD REFERENCE NO.	J6H028822N53211
DRAWN: P.M.	DATE: JUL.23/2023
PART NUMBER	
<b>J6H028822N53211</b>	
SHEET 2 OF 2	
DRAWING NUMBER	ISSUE
<b>J6H028822N53211</b>	<b>1</b>



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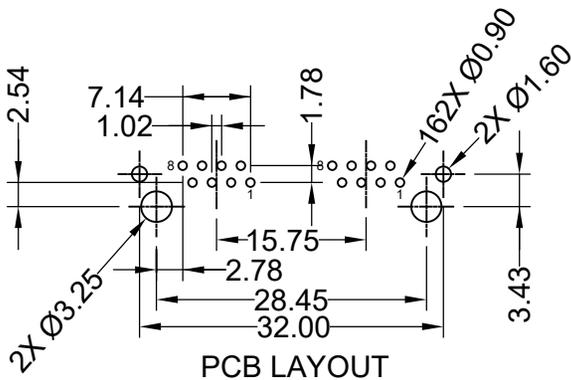
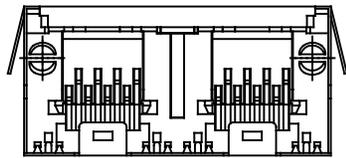
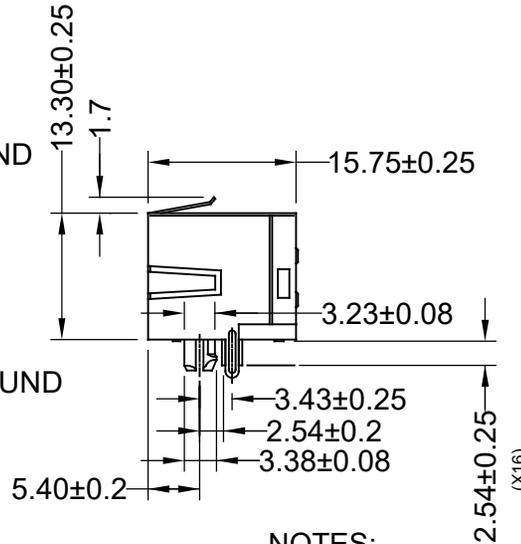
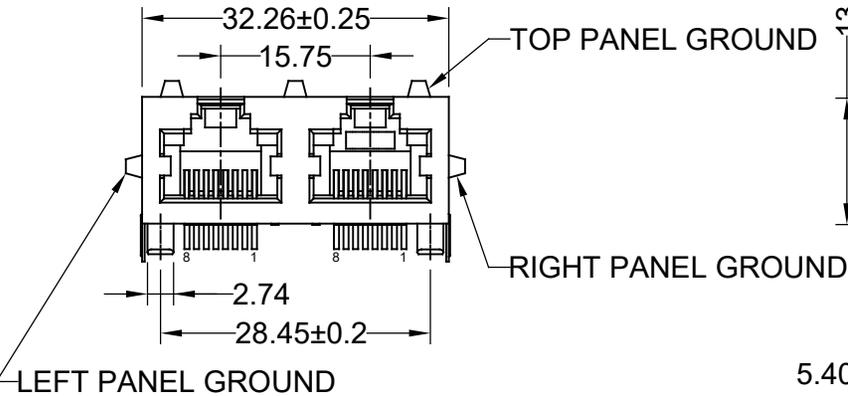
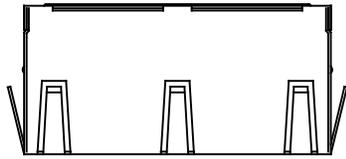
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 .XX ± 0.25  
 .XXX ± 0.13  
 X.X ± 2°

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ISSUE NUMBER	
ORIGINAL	1



NOTES:

MATERIAL:

HOUSING: DSM STANYL TE250F6 (NYLON-46)  
 HEAT DEFLECTION TEMP. 290°  
 BLACK COLOR, UL94V-0

CONTACTS: 0.35mm THICK PHOS-BRONZE PLATED  
 WITH 30u" HARD GOLD AND GOLD FLASH IN  
 SOLDER AREA.

SHIELD: 0.25mm THICK COPPER ALLOY,  
 PLATED WITH NICKEL.

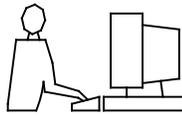
CAVITY CONFIRMS TO FCC RULES AND REGULATIONS  
 PART 68, SUBPART F.

<b>8 POSITIONS JACK SIDE ENTRY 2 PORTS SHIELDED</b>		ACAD REFERENCE NO.: J6H028862N00311	
		DRAWN: P.M.	DATE: JUL. 31/2023
 EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY & SERVICE		CHECKED: R.S.M.	
		DATE: JUL. 31/2023	
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		DRAWING NUMBER: J6H028862N00311	ISSUE 1
		PART NUMBER: J6H028862N00311	



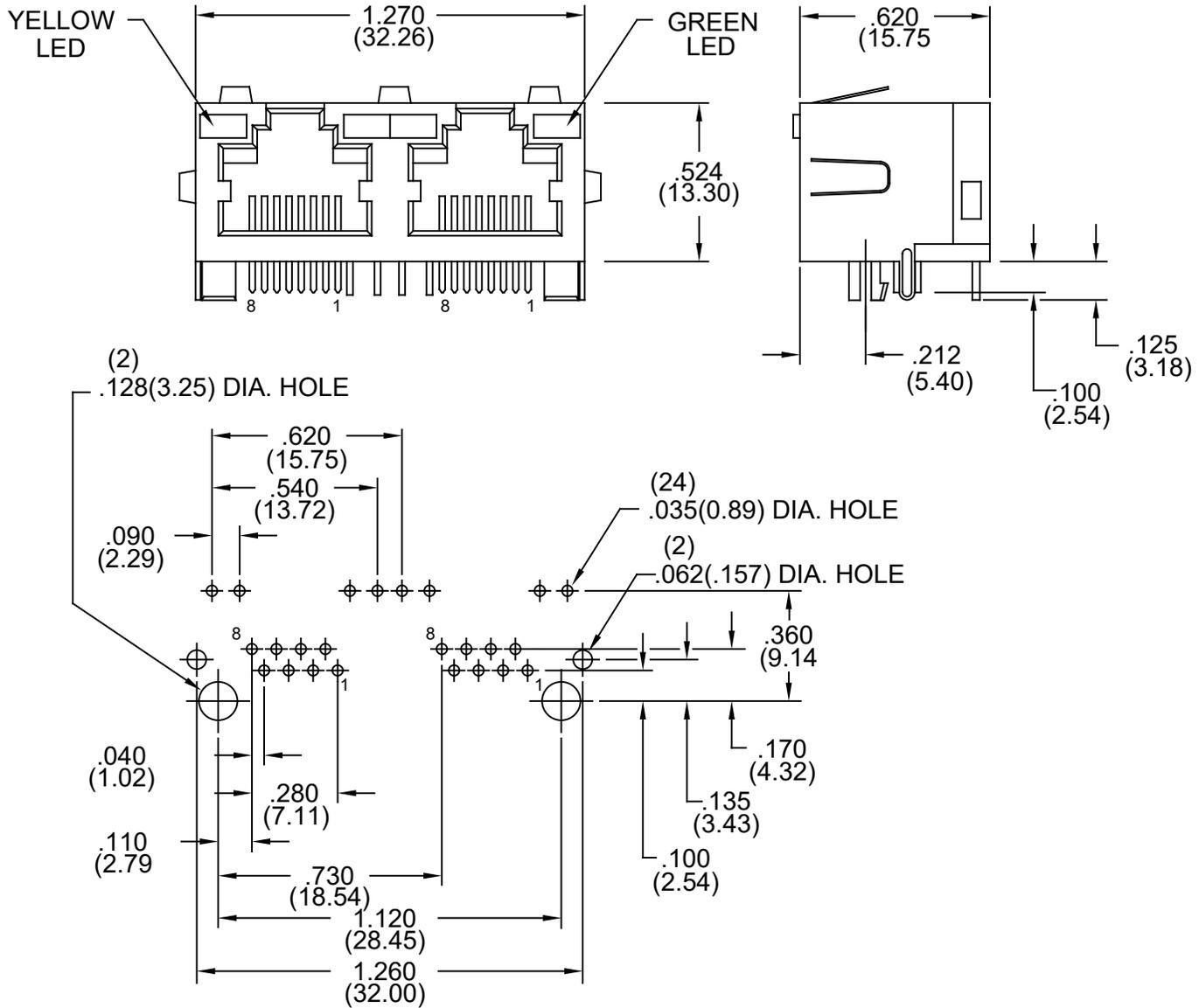
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ISSUE NUMBER

ORIGINAL ①



- J6H028822N13211 GOLD FLASH
- J6H028832N13211 15 MICROINCHES OF GOLD
- J6H028862N13211 30 MICROINCHES OF GOLD
- J6H028892N13211 50 MICROINCHES OF GOLD



THIS SERIES FULLY CONFORMS TO  
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**MATERIAL AND FINISH:**

BODY: HOUSING: HIGH TEMP. THERMOLASTIC  
(9DSM STANYL TE 250F6) OR SIMILAR  
HEAT DEFLECTION TEMP, 290°, BLACK, UL94V-0

CONTACTS: PHOSPHOR BRONZE(0.35mm DIA.)  
PLATED AS PER PART NO. TABLE

SHIELD: 0.25mm THICK COPPER ALLOY  
PLATED NICKEL

CAVITY CONFORMS TO FCC RULES AND  
REGULATIONS PART 68, SUBPART F

**DUALPORT, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**

ACAD REFERENCE NO. J6H028822N13211

DRAWN: F.BRIONES DATE: MAR.24/08

PART NUMBER

**SEE DWG**

DRAWING NUMBER

**J6H028822N13211**

ISSUE

1



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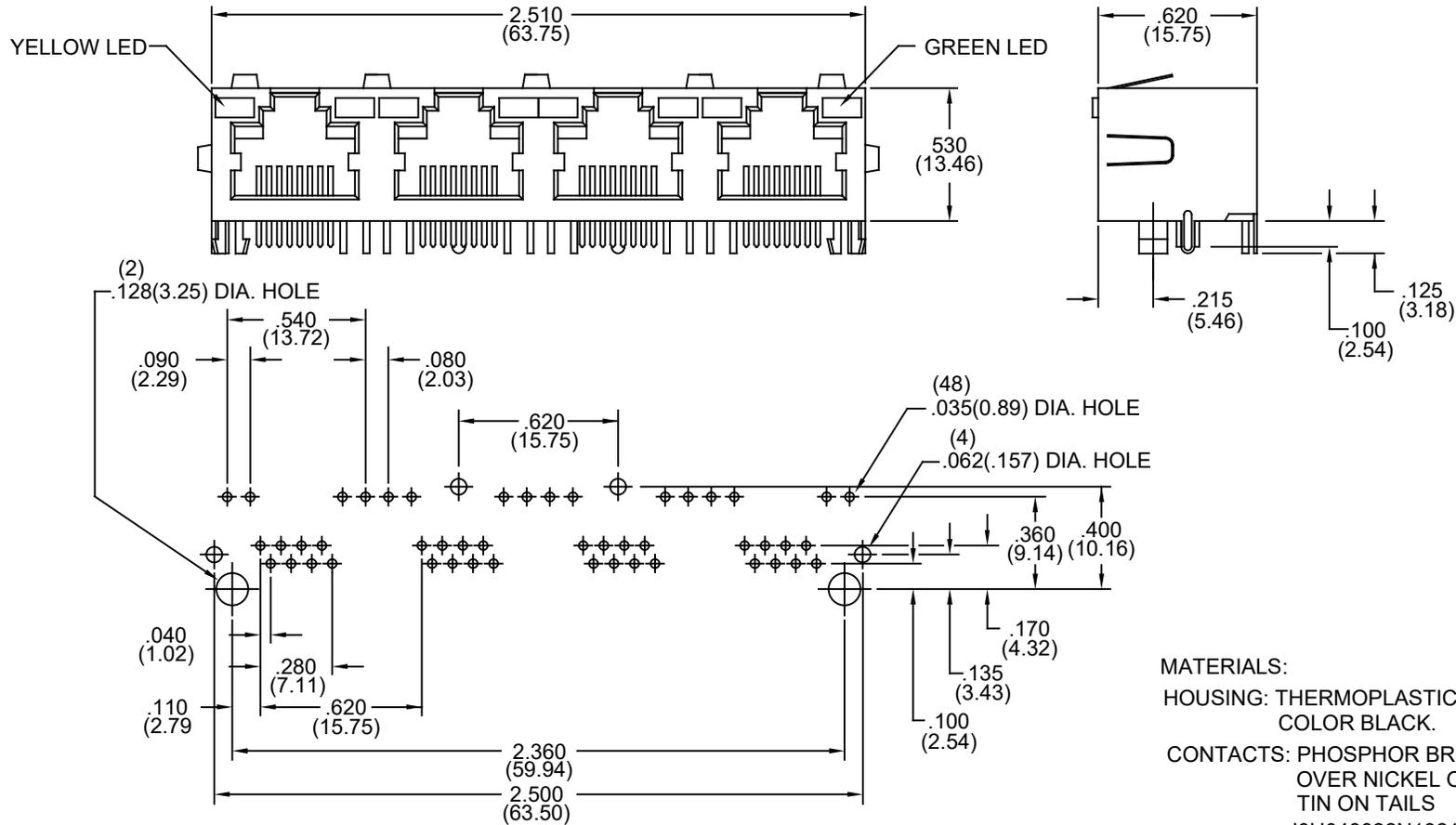
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ISSUE NUMBER

ORIGINAL

1



**MATERIALS:**

HOUSING: THERMOPLASTIC, UL94V-O  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, GOLD PLATING  
OVER NICKEL ON CONTACT AREA  
TIN ON TAILS

J6H048822N13211 GOLD FLASH  
J6H048832N13211 15 MICROINCHES OF GOLD  
J6H048862N13211 30 MICROINCHES OF GOLD  
J6H048892N13211 50 MICROINCHES OF GOLD  
SHIELD: COPPER ALLOY NICKEL PLATED

**4 PORT, 8 POSITIONS WITH LED'S  
SINGLE ROW SHIELDED R/ANGLE PCB**



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ACAD REFERENCE NO. J6H048822N13211

DRAWN: P.M. DATE: JUL.23/2023

PART NUMBER

**SEE ABOVE**

DRAWING NUMBER  
**J6H048822N13211**

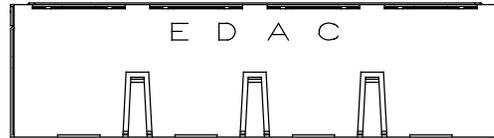
ISSUE  
**1**

TOLERANCE UNLESS OTHERWISE SPECIFIED	
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.XX	±0.13
.XXX	±0.05

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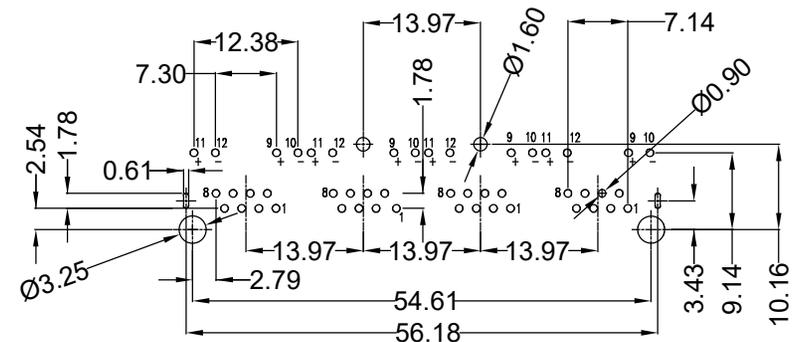
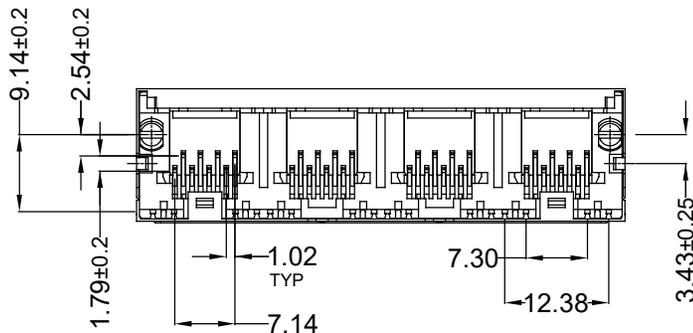
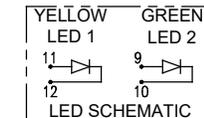
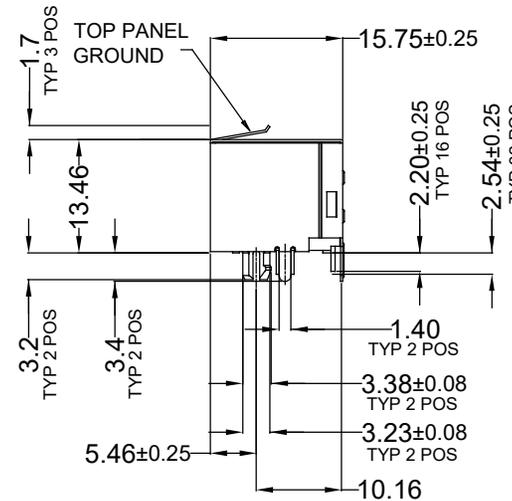
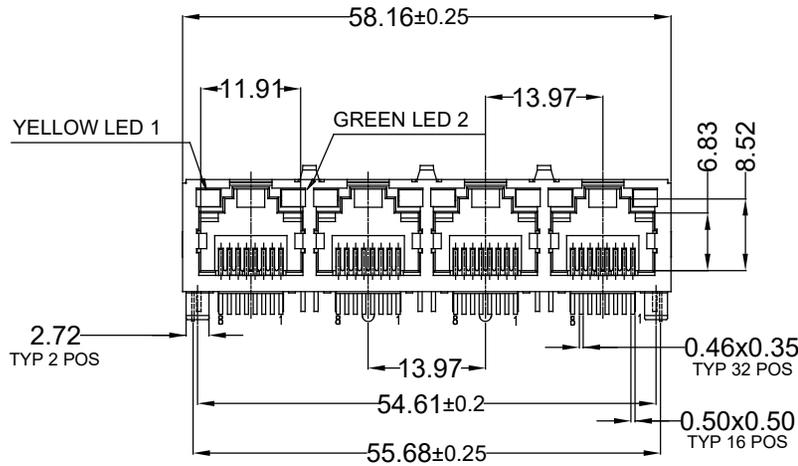


ISSUE NUMBER  
ORIGINAL ①



MATERIAL:  
HOUSING: DSM STANYL TE250F6 (NYLON-46)  
HEAT DEFLECTION TEMP. 290°C  
COLOUR: BLACK, UL04V-0  
CONTACTS: 0.35mm THICK PHOS-BRONZE PLATED WITH 6µ"  
HARD GOLD AND GOLD FLASH IN SOLDER AREA  
SHIELD: 0.20mm THICK COPPER ALLOY, PLATED WITH NICKEL

CAVITY CONFIRMS TO FCC RULES AND REG'S PART 68, SUB' F



RECOMMENDED P.C.B LAYOUT

4 PORT, 8 P WITH LED's, SHIELDED,  
SIDE ENTRY PCB GANGED JACK

ACAD REFERENCE NO.: J6H048822N13311	
DRAWN: P.M.	DATE: JUL.23/2023
CHECKED:	DATE:
SCALE: (IN C.A.D. 1:1)	SHEET 1 OF 1
PART NUMBER: J6H048822N13311	ISSUE 1



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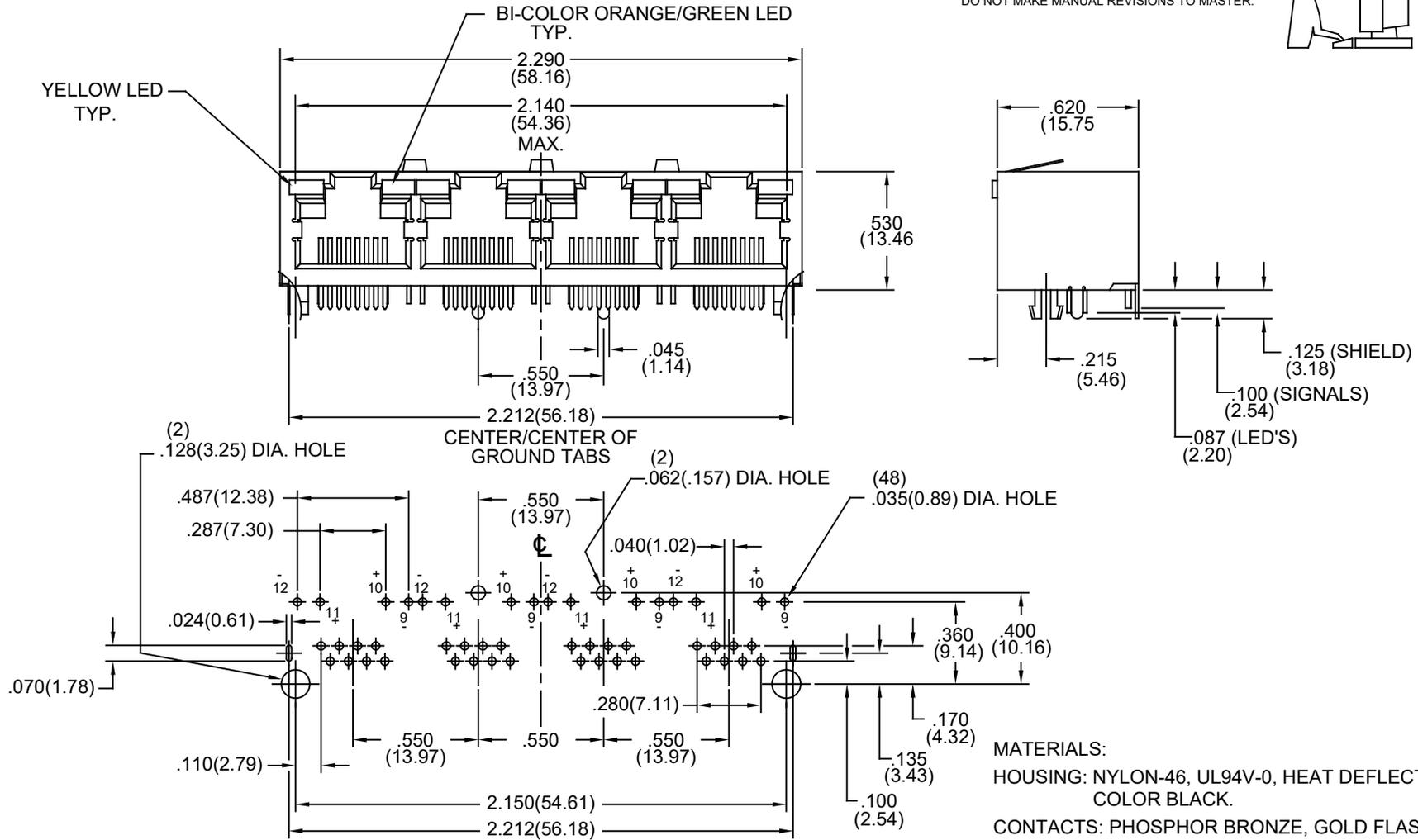
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ISSUE NUMBER

ORIGINAL

1



**MATERIALS:**  
 HOUSING: NYLON-46, UL94V-0, HEAT DEFLECTION TEMP. 290°C  
 COLOR BLACK.  
 CONTACTS: PHOSPHOR BRONZE, GOLD FLASH OVER NICKEL  
 SHIELD: COPPER ALLOY NICKEL PLATED

**FOUR PORTS, 8 POSITIONS WITH LED'S  
SHIELDED R/ANGLE PCB**



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ACAD REFERENCE NO. J6H048822N17211

DRAWN: P.M.

DATE: JUL.23/2023

PART NUMBER

**J6H048822N17211**

SHEET 1 OF 2

DRAWING NUMBER

**J6H048822N17211**

ISSUE

1

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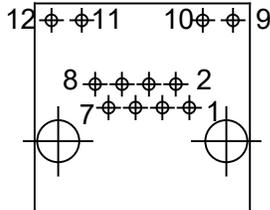
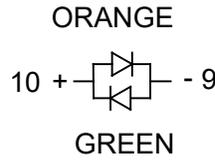


ISSUE NUMBER	
ORIGINAL	①

TYP. FOR SINGLE  
COLOR LED'S



TYP. FOR BI-COLOR  
LED'S



TYP. FOR SINGLE ROW

**MATERIALS:**

- SHIELD: COPPER ALLOY, TIN PLATED
- CONTACTS: PHOSPHOR BRONZE, GOLD PLATED OVER NICKEL  
(GOLD PLATED THICKNESS AS PER PART NO.EXTRUCTION)
- HOUSING: HIGH TEMP. THERMOPLASTIC, BLACK UL94V-0

**ELECTRICAL SPECIFICATIONS**

- CONTACT RESISTANCE: 20 MILLIOHMS MAX.
- INSULATION RESISTANCE: 500 MEGOHMS MIN.
- CURRENT RATING: 1.5 AMPS
- VOLTAGE RATING: 125 VAC
- DWV: 1000 VAC, RMS. 60 Hz 1 MIN.

**STANDARD LED'S: FOR 5.0 VOLTS SYSTEMS**

- FORWARD VOLTAGE: 2.1 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 0.5 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

**LOW CURRENT LED'S: FOR 3.3 VOLTS SYSTEMS**

- FORWARD VOLTAGE: 2.0 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 1.0 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

**OTHER PARAMETERS:**

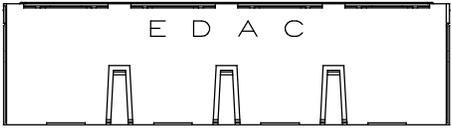
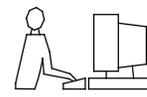
- STORAGE TEMPERATURE: -20°C TO +85°C
- LEAD SOLDERING TEMPERATURE: 260°C (5 SEC.)

<p><b>MODULAR JACKS/LED'S</b> ELECTRICAL SPECIFICATIONS</p>	ACAD REFERENCE NO. J6H048822N17211	
	DRAWN: P.M.	DATE: JUL.23/2023
	PART NUMBER	
	<p><b>J6H048822N17211</b> SHEET 2 OF 2</p>	
	DRAWING NUMBER	ISSUE
<p><b>J6H048822N17211</b></p>		<p>1</p>

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.X	±0.25
.XX	±0.13
.XXX	±0.05

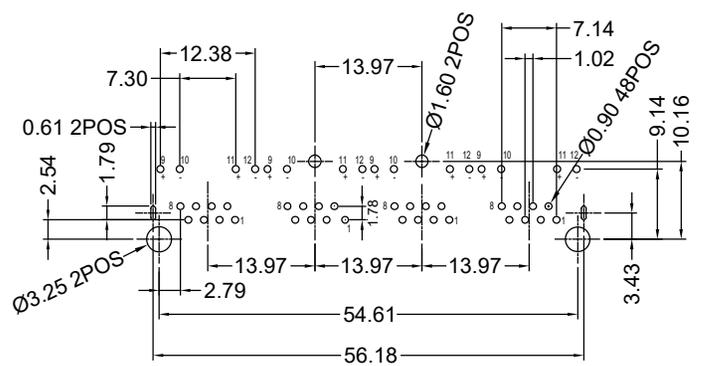
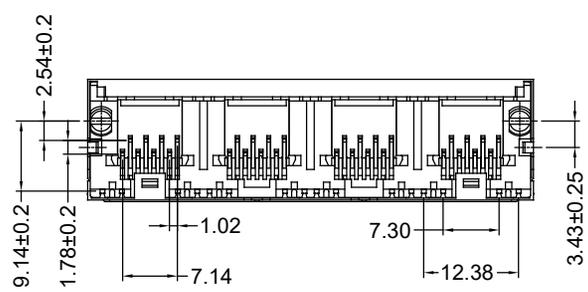
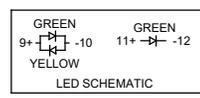
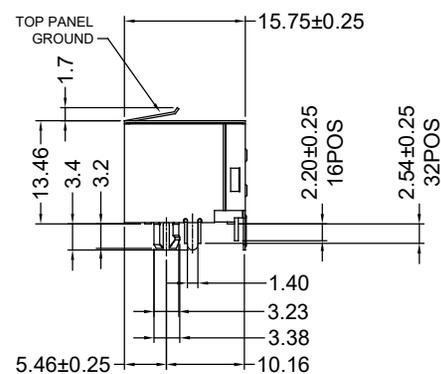
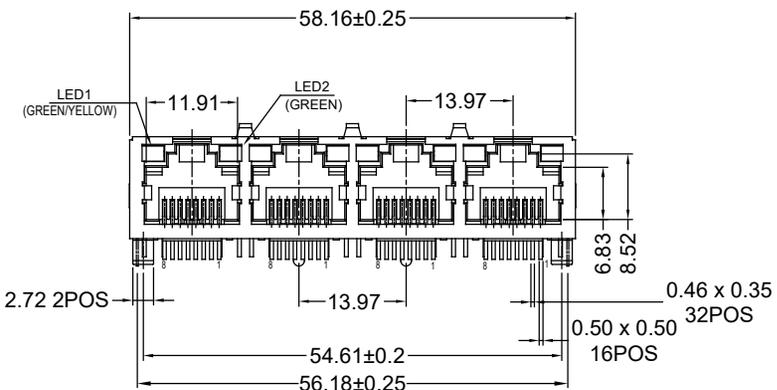
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NOTES:

- MATERIAL:  
HOUSING: DSM STANYL TE250F8 (NYLON 46),  
BLACK COLOUR, UL94V-0  
CONTACT: PHOSPHOR BRONZE, HARD GOLD  
PLATING ON CONTACT AREA AND GF  
ON SOLDER AREA  
SHIELD: COPPER ALLOY, NICKEL PLATING

CAVITIES CONFORM TO FCC RULES AND  
REGULATION PART 68, SUBPART F.



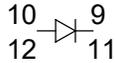
RECOMMENDED P.C.B LAYOUT

<b>4PORTS, 8POSITION, WITH LED'S SHIELDED, SIDE ENTRY PCB GANGED JACK</b>		ACAD REFERENCE NO.: J6H048822N53211	
		DRAWN: P.M.	DATE: JUL.23/2023
 EDAC INC TORONTO, ONTARIO CANADA YOUR CONNECTION TO QUALITY & SERVICE		CHECKED:	
		DATE:	
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		SHEET 1 OF 2	
 THIS SERIES FULLY CONFORMS TO THE EUROPEAN UNION DIRECTIVES 2011/65/EU FOR RoHS COMPLIANCY.		DRAWING NUMBER: J6H048822N53211	
		ISSUE 1	
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		ISSUE 1	

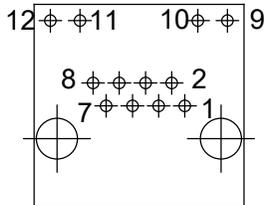
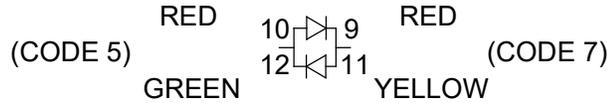
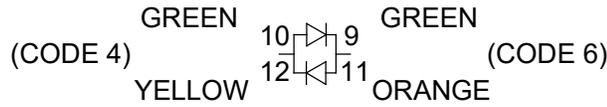
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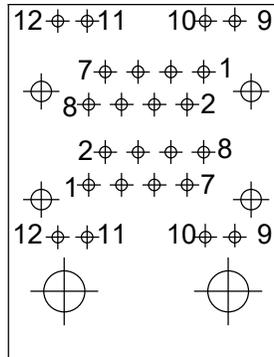
TYP. FOR SINGLE  
COLOR LED'S



TYP. FOR BI-COLOURS  
LED'S



TYP. FOR SINGLE ROW



TYP. FOR  
DUAL ROW

MATERIALS:

- SHIELD: COPPER ALLOY, TIN PLATED
- CONTACTS: PHOSPHOR BRONZE, GOLD PLATED OVER NICKEL  
(GOLD PLATED THICKNESS AS PER PART NO.EXTRUCTION)
- HOUSING: HIGH TEMP. THERMOPLASTIC, BLACK UL94V-0

ELECTRICAL SPECIFICATIONS

- CONTACT RESISTANCE: 20 MILLIOHMS MAX.
- INSULATION RESISTANCE: 500 MEGOHMS MIN.
- CURRENT RATING: 1.5 AMPS
- VOLTAGE RATING: 125 VAC
- DWV: 1000 VAC, RMS. 60 Hz 1 MIN.

STANDARD LED'S: FOR 5.0 VOLTS SYSTEMS

- FORWARD VOLTAGE: 2.1 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 0.5 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

LOW CURRENT LED'S: FOR 3.3 VOLTS SYSTEMS

- FORWARD VOLTAGE: 2.0 VOLTS TYP.
- REVERSE VOLTAGE: 6.0 VOLTS MIN.
- LUMINOUS INTENSITY: 1.0 mCD MIN. (AT LF=2mA)
- VOLTAGE RATING: 125 VAC

OTHER PARAMETERS:

- STORAGE TEMPERATURE: -20°C TO +85°C
- LEAD SOLDERING TEMPERATURE: 260°C (5 SEC.)

MODULAR JACKS/LED'S  
ELECTRICAL SPECIFICATIONS

ACAD REFERENCE NO.: J6H048822N53211	
DRAWN: P.M.	DATE: JUL.23/2023
CHECKED:	DATE:
SCALE: (IN C.A.D. 1:1)	SHEET 2 OF 2
DRAWING NUMBER: J6H048822N53211	ISSUE
PART NUMBER: J6H048822N53211	1



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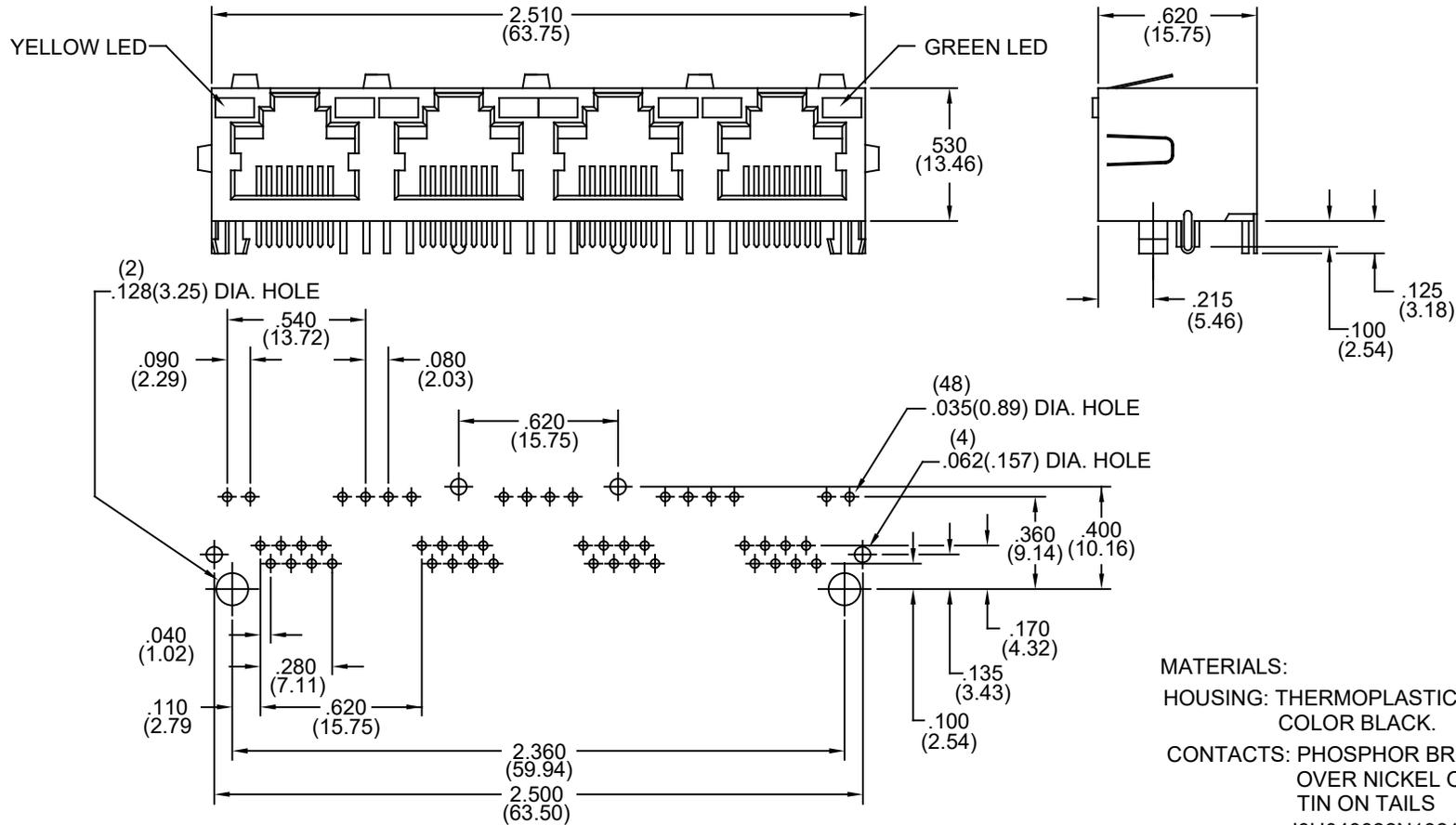
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ISSUE NUMBER

ORIGINAL

1



**MATERIALS:**

HOUSING: THERMOPLASTIC, UL94V-O  
COLOR BLACK.

CONTACTS: PHOSPHOR BRONZE, GOLD PLATING  
OVER NICKEL ON CONTACT AREA  
TIN ON TAILS

J6H048822N13211 GOLD FLASH  
J6H048832N13211 15 MICROINCHES OF GOLD  
J6H048862N13211 30 MICROINCHES OF GOLD  
J6H048892N13211 50 MICROINCHES OF GOLD  
SHIELD: COPPER ALLOY NICKEL PLATED

**4 PORT, 8 POSITIONS WITH LED'S  
SINGLE ROW SHIELDED R/ANGLE PCB**



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ACAD REFERENCE NO. J6H048822N13211

DRAWN: P.M.

DATE: JUL.23/2023

PART NUMBER

**SEE ABOVE**

DRAWING NUMBER

**J6H048822N13211**

ISSUE

**1**

TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:  
 0.0 ± 0.25 [0.010]  
 0.00 ± 0.15 [0.005]  
 0.000 ± 0.05 [0.002]

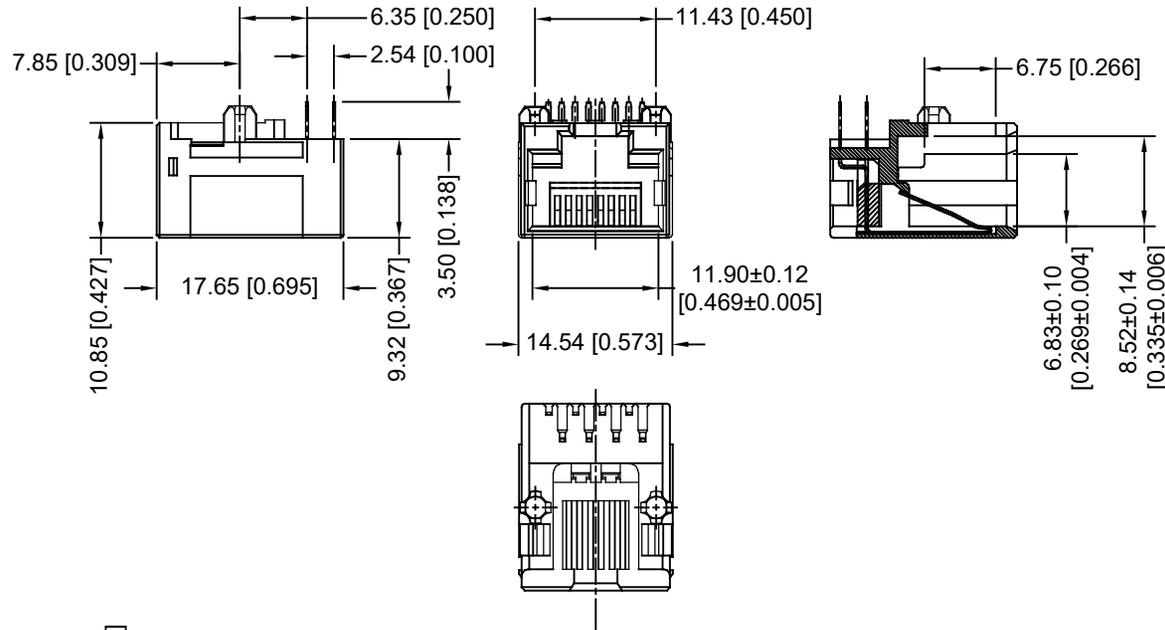
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ISSUE NUMBER

ORIGINAL

1

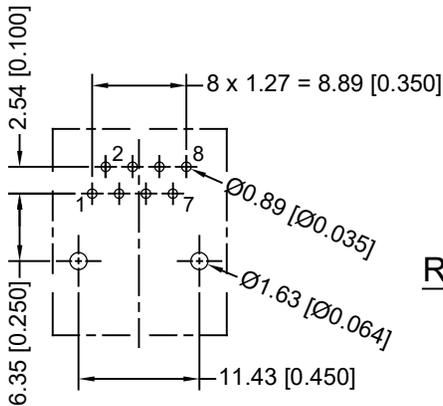


NOTES:

1. MATERIALS:  
 HOUSING: LCP, UL94 V-0, BLACK COLOR  
 CONTACTS: PHOSPHOR BRONZE PLATED WITH SELECTIVE GOLD PLATING AND MATTE TIN IN SOLDER AREA ALL OVER NICKEL UNDERPLATING

PART NO	GOLD PLATING THICKNESS
J9Q018822L00102	GOLD FLASH PLATING
J9Q018832L00102	15 MICRO INCHES OF GOLD
J9Q018862L00102	30 MICRO INCHES OF GOLD
J9Q018892L00102	50 MICRO INCHES OF GOLD

2. MATING/UNMATING FORCE: 22N/2.27KG MAX
3. RETENTION STRENGTH: 57.83N MIN
4. ELECTRICAL PROPERTIES  
 VOLTAGE RATING: 125 VAC RMS  
 CURRENT RATING: 1.5 AMP  
 CONTACT RESISTANCE: 45 MILLIOHMS MAX  
 INSULATION RESISTANCE: 500 MEGOHMS MIN  
 DIELECTRIC WITHSTANDING: 1000 V
5. STORAGE TEMPERATURE: -40°C TO +85°C  
 OPERATING TEMPERATURE: 0°C TO +70°C
6. DIMENSION: MM [INCHES]



RECOMMENDED P.C.B. LAYOUT

RJ45 SIDE ENTRY, 8P8C

ACAD REFERENCE NO.: J9Q018892L00102

DRAWN: R.STA.MONICA DATE: AUG.21/2013

CHECKED: DATE:

PART NUMBER

SEE GOLD PLATING SHEET 1 OF 1

DRAWING NUMBER ISSUE

J9Q018892L00102 1



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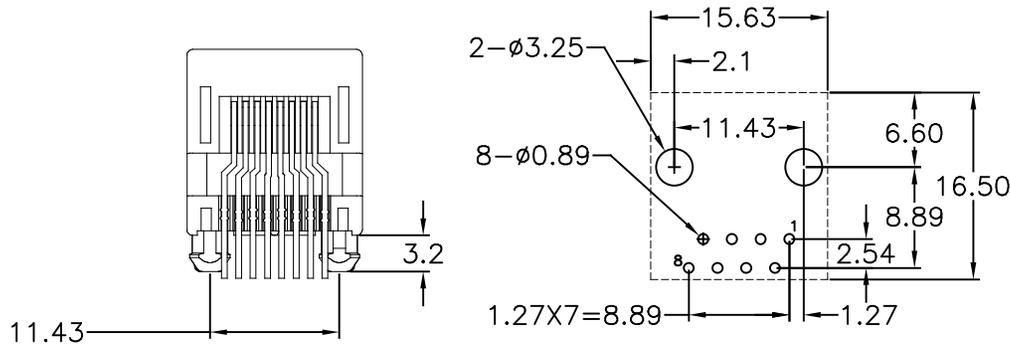
TOLERANCE UNLESS OTHERWISE SPECIFIED IN MM:

0-15 = ±0.15    ANGLE    ±1°  
 15-30 = ±0.20  
 30-    = ±0.25

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ISSUE NUMBER	
ORIGINAL	①
PN WAS A00-108-x20-910	②

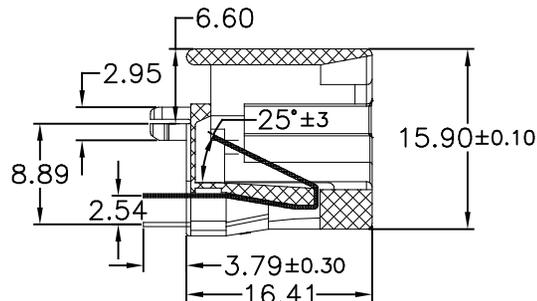
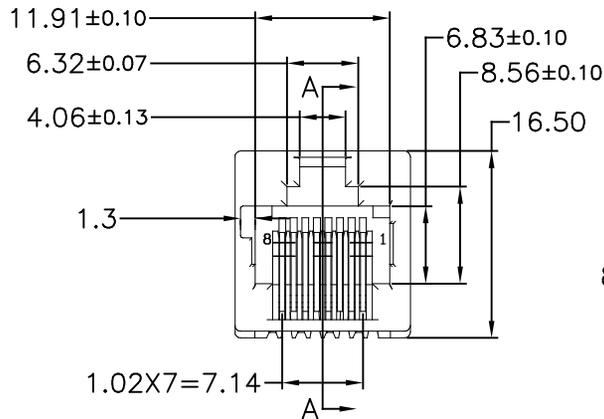


PCB BOARD LAYOUT  
 COMPONENT SIDE  
 TOLERANCE ±0.05

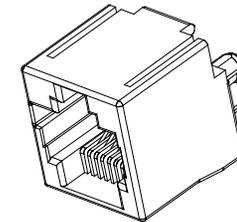
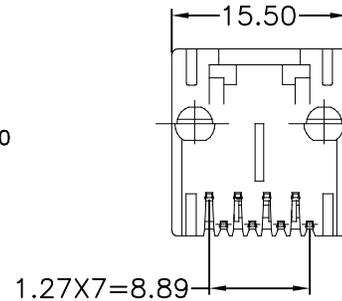
NOTES:

- MATERIALS:  
 HOUSING: PA66, UL 94V-0, BLACK COLOR  
 CONTACTS: PHOSPHOR BRONZE, GOLD PLATING OVER NICKEL,  
 TIN PLATING OVER NICKEL IN SOLDER AREA.
- VOLTAGE RATING: 125 VAC RMS
- CURRENT RATING: 1.5 AMP MAX
- CONTACT RESISTANCE: 20 MILLIOHMS MAX
- INSULATION RESISTANCE: 1000 MEGOHMS MIN @500 V DC
- DIELECTRIC VOLTAGE: 1000 VAC RMS 50/60 Hz, 1 MINUTE.
- DURABILITY: 750 CYCLES MIN.
- MATING/UNMATING FORCE: 30N MAX.
- RETENTION STRENGTH: 50N FOR 60s ±5s.

PART NO.	GOLD PLATING
J20018821P00041	GOLD FLASH PLATING
J20018831P00041	15 MICRO INCHES OF GOLD PLATING
J20018861P00041	30 MICRO INCHES OF GOLD PLATING
J20018891P00041	50 MICRO INCHES OF GOLD PLATING



SECTION A-A



RJ45 (UNSHIELDED) MODULAR JACK, 8P8C

ACAD REFERENCE NO.: J20018831P00041	
DRAWN: R.STA.MONICA	DATE: JAN.07/2015
CHECKED:	DATE:
PART NUMBER	
SEE GOLD PLATING	SHEET 1 OF 1
DRAWING NUMBER	ISSUE
J20018831P00041	2



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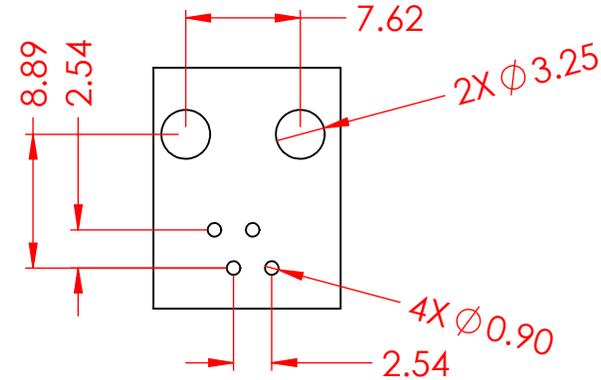
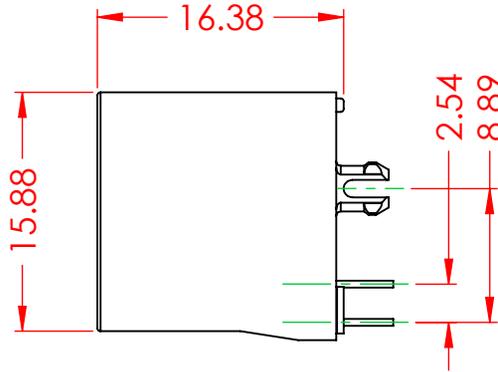
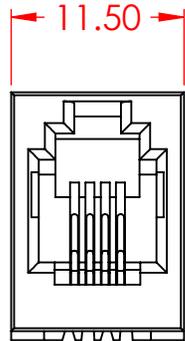
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TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.13
.XXX	±0.05

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ISSUE NUMBER	
ORIGINAL	①



RECOMMENDED PCB LAYOUT - UNDERSIDE

NOTES:

1. MATERIALS:

INSULATOR: PBT +30%G.F, BLACK, UL 94V-0

CONTACT: COPPER ALLOY, GOLD FLASH PLATING ON CONTACT AREA  
ALL OVER NICKEL UNDERPLATING.

2. VOLTAGE RATING: 125V AC RMS

3. CURRENT RATING: 1.5A

4. CONTACT RESISTANCE: 20 mΩ MAX

5. INSULATOR RESISTANCE: 1000 MΩ MIN @ 500V DC

6. DIELECTRIC WITHSTANDING: 1000V AC OR 1500V DC RMS AT 1.5mA 50Hz/60Hz  
FOR 1 MIN

7. DURABILITY: 750 CYCLES MIN

8. MATING/UNMATING FORCE: 30N/3.06KG MAX

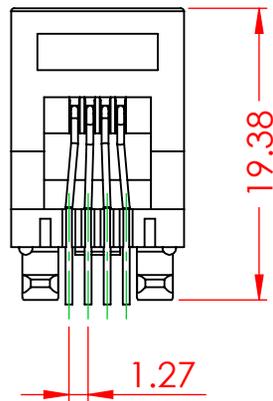
9. RETENTION STRENGTH: 30N MIN FOR 60 S +15 S

10. OPERATING TEMP: -40°C TO +85°C

11. STORAGE TEMP: -40°C TO +85°C; RELATIVE HUMIDITY <80%P

12. WAVE SOLDERING TEMP: 260+15°C FOR 5~10 SECONDS

13. MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



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RJ11, VERTICAL, UNSHIEDED

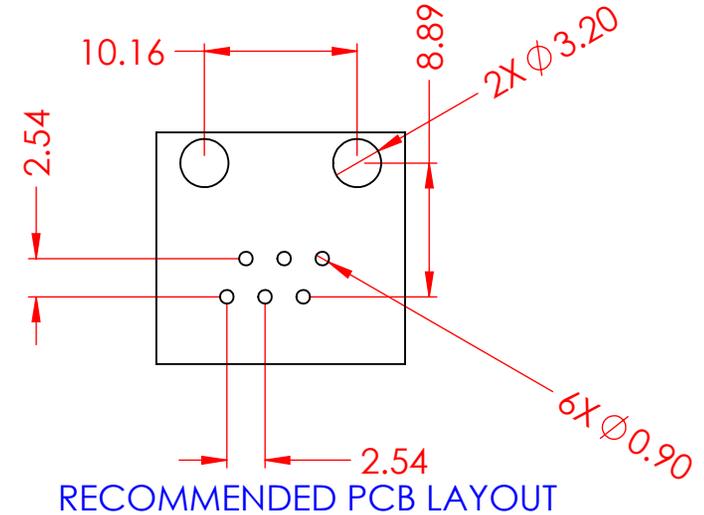
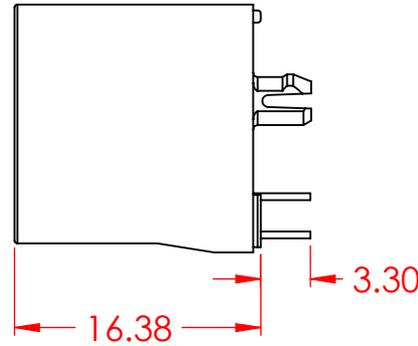
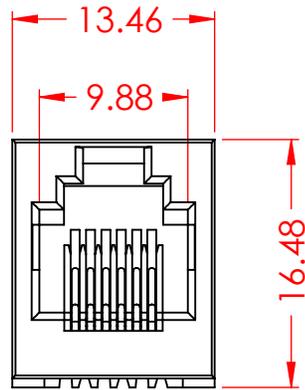
ACAD REFERENCE NO.: J21 Assembly	
DRAWN: C.B	DATE: JUL. 28/2023
CHECKED:	DATE:
SCALE: 2:1	SHEET 1 OF 1
DRAWING NUMBER: J21 Assembly	ISSUE
PART NUMBER: J21014421P00031	1

TOLERANCE UNLESS OTHERWISE SPECIFIED	
.X	±0.25
.XX	±0.13
.XXX	±0.05

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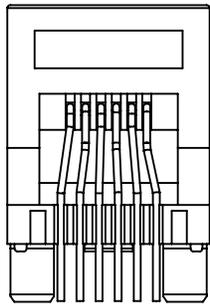


ISSUE NUMBER	
ORIGINAL	①



**NOTES:**  
**MATERIAL:**  
**HOUSING:** PBT, UL94V-0, BLACK COLOR  
**CONTACT:** PHOSPHOR BRONZE PLATED WITH SELECTIVE GOLD PLATING AND GOLD FLASH ON CONTACT AREA

**TEMPERATURE RANGE:** -40°C TO +85°C  
**DURABILITY:** 750 CYCLES MIN  
**WAVE SOLDERING:** 260°C±5°C FOR 5~10 SECONDS  
**MATING FORCE:** 30N MAX  
**VOLTAGE RATING:** 125V rms  
**CURRENT RATING:** 1.5A  
**CONTACT RESISTANCE:** 20mΩ MAX  
**INSULATION RESISTANCE:** 1000 MΩ MIN  
**DIELECTRIC WITHSTANDING:** 1000V AC / 1500V DC  
 AT 0.5mA, 50Hz / 60Hz FOR 1 MINUTE



RJ11, TOP ENTRY		ACAD REFERENCE NO.: J24 Assembly	
DRAWN: Y.ZHANG		DATE: DEC.13/2019	
CHECKED:		DATE:	
SCALE: 2:1		SHEET 1 OF 1	
DRAWING NUMBER: J24 Assembly			ISSUE
PART NUMBER: J24016621P00031			1



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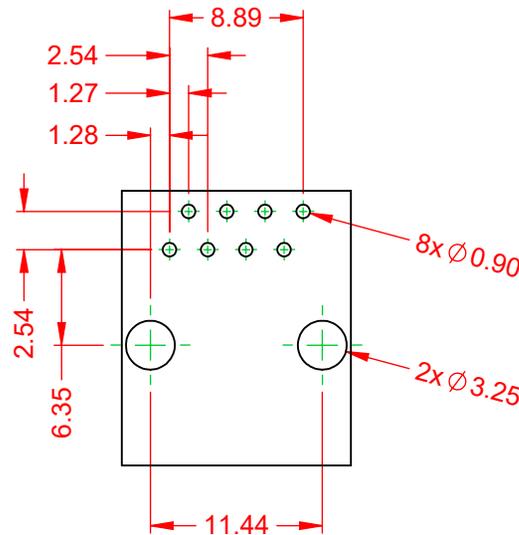
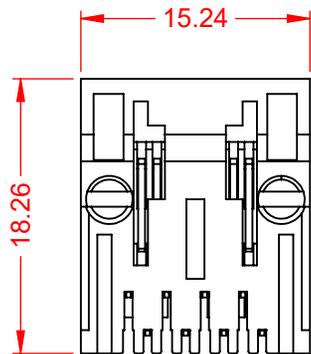
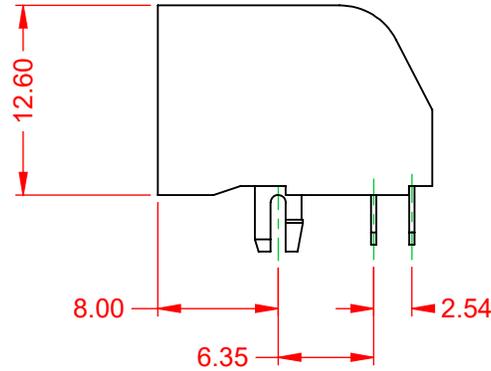
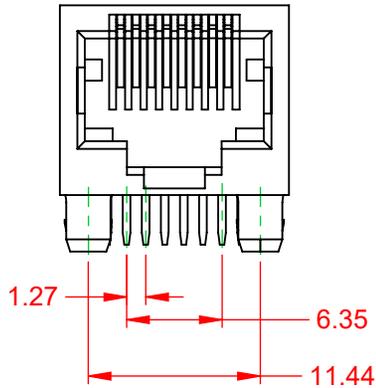
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.XX	±0.13
.XXX	±0.05

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ISSUE NUMBER	
ORIGINAL	①



RECOMMENDED PCB LAYOUT

NOTES:

1. MATERIALS:

INSULATOR:  
CONTACT:

PBT, BLACK, UL 94V-0  
PHOSPHOR BRONZE,  
SELECT 50µ" GOLD PLATING ON CONTACT AREA  
TIN ON TAILS OVER NICKEL  
125 VAC RMS  
1.5 AMPS @25°C  
20mΩ MAX  
1000 MΩ MIN @ 500V DC  
1000V AC CONTACT TO CONTACT OR  
1500VDC CONTACT TO SCREEN AND TEST PANEL  
@0.5mA 50Hz OR 60Hz 60s

2. VOLTAGE RATING:

3. CURRENT RATING:

4. CONTACT RESISTANCE:

5. INSULATOR RESISTANCE:

5. DIELECTRIC WITHSTANDING:

6. DURABILITY:

7. MATING/UNMATING FORCE:

8. RETENTION STRENGTH:

9. OPERATING TEMP:

10. STORAGE TEMP:

750 CYCLES MIN

20N/2.04KG MAX

50N MIN FOR 60s ±5s

-40°C TO +85°C

-40°C TO +85°C RELATIVE HUMIDITY <80%

MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.



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RJ45, RIGHT ANGLE

ACAD REFERENCE NO.: J79 Assembly	
DRAWN: Y.Z	DATE: JAN. 08/2020
CHECKED:	DATE:
SCALE: 2:1	SHEET 1 OF 1
DRAWING NUMBER: J79 Assembly	ISSUE
PART NUMBER: J79018892P00001	1