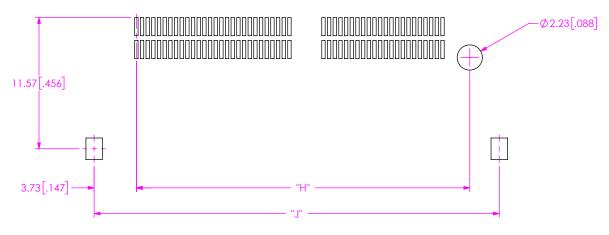
REVISION E RECOMMENDED PCB LAYOUT FOR MEC5-XXX-XX-X-RA-XX-TR 11/30/2022 ECN-445931 3.00 [.118] REF 3.13[.123] REF **DESIGNED & DIMENSIONED** (SEE NOTE 1) (SEE NOTE 1) IN MILLIMETERS[INCHES] 02 Ø0.84[.033] PTH 3.00 [.118] Ø 1.75 [.069] -(TO BE SOLDERED USING (SEE NOTE 3) 01 NPTH (2 PLCS) PASTE-IN-HOLE TECHNOLOGY) 6.07±0.10 [.239±.004] 6.03 [.237] REF 2.55[.100] 13.53[.532] REF (SEE NOTE 1) 5.50 [.217] 3.62±0.05 .143±.002 1.90 [.075] .60±0.03 [.063±.001] (2 PLCS) (TYP) 0.50 [.020] REF **-**1.25[.049] 1.45 .057 (2 PLCS) 2.48 [.097[]] **EDGE OF PCB** -0.300[.0118] (TYP) FIG 1 DETAIL 'A' SCALE 8:1 (MEC5-050-01-X-RA-W2 FOOTPRINT SHOWN) TABLE 1 2.30 [.091] REF 2.43 [.095] REF No OF "A" "B" "C" "D" "E" "F" (SEE NOTE 1) (SEE NOTE 1) **POSITIONS** -030 18.16 [0.715] 17.00 [0.669] 14.50 [0.571] N/A 23.23 [0.915] 21.63 [0.852] -040 23.16 [0.912] 22.00 [0.866] 19.50 [0.768] N/A 28.23 [1.111] 26.63 [1.048] -050 30.66 [1.207] 29.50 [1.161] 27.00 [1.063] 13.50 [0.531] 35.73 [1.407] 34.13 [1.344] -060 35.66 [1.404] 34.50 [1.358] 32.00 [1.260] 16.00 [0.630] 40.73 [1.604] 39.13 [1.541] -070 40.66 [1.601] 39.50 [1.555] 37.00 [1.457] 18.50 [0.728] 45.73 [1.800] 44.13 [1.737] 45.66 [1.797] 44.50 [1.752] 42.00 [1.654] 21.00 [0.827] 50.73 [1.997] 49.13 [1.934] 5.35 [.211] 1. CONNECTOR ENVELOPE DIMENSIONS. OTHER COMPONENTS \oplus PLACED ON PCB SHALL AVOID THIS ZONE. 2. ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE. \emptyset 0.72 [.028] PTH (2PLCS) 3. POLARIZATION RIB IS NOT PRESENT ON -030 & -040 POSITIONS. 4. FOR APPLICATIONS REQUIRING INVERTED REFLOW SOLDERING, (TO BE SOLDERED USING -1.68[.066] USE OF AN EPOXY ADHESIVE IS RECOMMENDED. PASTE-IN-HOLE TECHNOLOGY) PROPRIETARY NOTE UNLESS OTHERWISE SPECIFIED. THIS DOCUMENT CONTAINS CONFIDENTIAL AND FIG 2 (MEC5-050-01-X-RA-W1 FOOTPRINT SHOWN) DIMENSIONS ARE IN MILLIMETERS PROPRIETARY INFORMATION AND ALL DESIGN TOLERANCES ARE: MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1) DECIMALS **ANGLES** X.X: ±0.3 [.01] X.XX: ±0.13 [.005] 2 ° OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY 520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS X.XXX: ±0.051 [.0020] e-Mail info@SAMTEC.com code 55322 F:\DWG\MISC\Mktg\Footprnt\MEC5-XXX-XX-X-RA-XX-TR-FOOTPRINT.slddrw WRITTEN CONSENT OF SAMTEC, INC. -SHEET 1 OF 3

REVISION E

RECOMMENDED STENCIL LAYOUT FOR MEC5-XXX-XX-X-RA-XX-TR

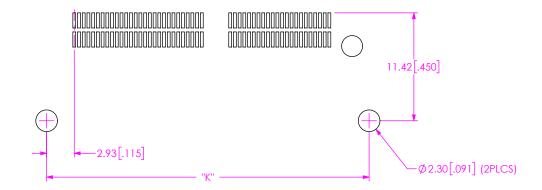
NOTE:

1. STENCIL TO BE 0.127[.0050] THICK.
2. DIMENSIONS ARE FOR 1.57[.062] THICKNESS BOARD.



[MEC5-050-01-X-RA-W2 STENCIL SHOWN] (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

| | TABLE 2 | | | | | |
|--------------------|---------------|---------------|--|--|--|--|
| No OF POSITIONS | "H" | "J" | | | | |
| -030 | 16.91 [0.666] | 23.23 [0.915] | | | | |
| -040 | 21.91 [0.862] | 28.23 [1.111] | | | | |
| -050 | 29.41 [1.158] | 35.73 [1.407] | | | | |
| -060 | 34.41 [1.355] | 40.73 [1.604] | | | | |
| -070 | 39.41 [1.551] | 45.73 [1.800] | | | | |
| -080 | 44.41 [1.748] | 50.73 [1.997] | | | | |



| FIG 4 |
|---|
| (MEC5-050-01-X-RA-W1 STENCIL SHOWN) |
| (DIFFÈRENT AS SHOWN, OTHERWISE SAME AS FIG 1) |

| TABLE 3 | | | |
|-----------|---------------|--|--|
| No OF | "K" | | |
| POSITIONS | | | |
| -030 | 21.63 [0.852] | | |
| -040 | 26.63 [1.048] | | |
| -050 | 34.13 [1.344] | | |
| -060 | 39.13 [1.541] | | |
| -070 | 44.13 [1.737] | | |
| -080 | 49.13 [1.934] | | |

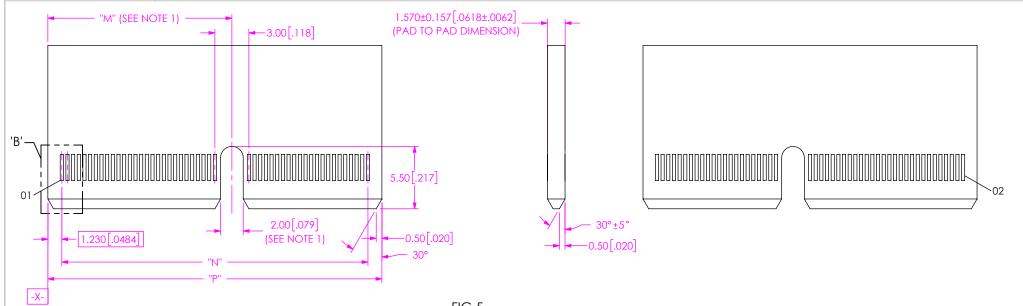
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REVISION E RECOMMENDED MATING CARD LAYOUT FOR MEC5-XXX-XX-X-RA-XX-TR



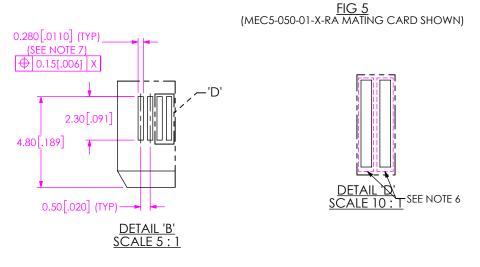


FIG 6 (SEE NOTE 5)

DETAIL 'C' SCALE 5 : 1

| TABLE 4 | | | | | |
|--------------------|---------------|---------------|---------------|--|--|
| No OF POSITIONS | "M" | "N" | "P" | | |
| -030 | N/A | 14.50 [0.571] | 16.96 [0.668] | | |
| -040 | N/A | 19.50 [0.768] | 21.96 [0.865] | | |
| -050 | 16.23 [0.639] | 27.00 [1.063] | 29.46 [1.160] | | |
| -060 | 18.73 [0.738] | 32.00 [1.260] | 34.46 [1.357] | | |
| -070 | 21.23 [0.836] | 37.00 [1.457] | 39.46 [1.554] | | |
| -080 | 23.73 [0.934] | 42.00 [1.654] | 44.46 [1.750] | | |

- 1. -30 AND -40 CARDS HAVE NO SLOT.
- 2. ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.
- 3. PLATING TO BE .000030 INCHES GOLD WITH A HARDNESS OF
- 130-200 KNOOP PER ASTM B 488 TYPE 2, GRADE C.

 4. MATING EDGE CARD THICKNESS TOLERANCE TO BE 0.157[.0062].

 5. FOR PROPER CONTACT REGISTRATION, PLATING BUS TIE TO BE THE WIDTH OF THE EDGE FINGER.
- 6. SOLDERMASK BETWEEN THE PADS IS RECOMMENDED.
- 7. SEE MEC5 PRODUCT SPEC FOR SIGNAL INTEGRITY RECOMMENDATIONS.

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