

DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]

MEC5-XXX-XX-X-RA-XX-TR

TAPE &amp; REEL

NO OF POSITIONS (PER ROW)

-030, -040, -050,  
-060, -070, -080

CARD THICKNESS

-01: FOR .062" THICK BOARD

PLATING SPECIFICATION

-L: 10μ" GOLD IN CONTACT AREA,  
MATTE TIN TAIL  
-S: 30μ" GOLD IN CONTACT AREA,  
MATTE TIN TAILOPTION  
(REQUIRED)-W1: WELD TAB THROUGH HOLE  
(SEE FIG 2, SHT 3)  
-W2: WELD TAB SURFACE MOUNT  
(SEE FIG 1)

ROW SPECIFICATION

-RA: RIGHT ANGLE

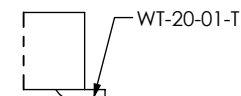
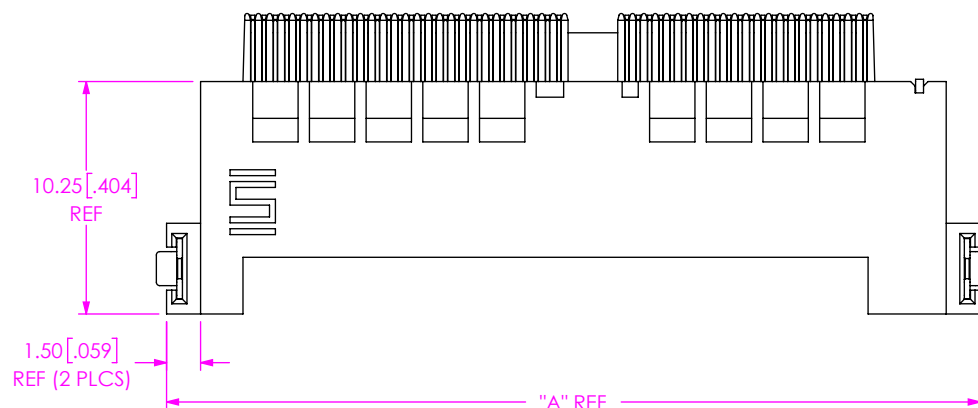
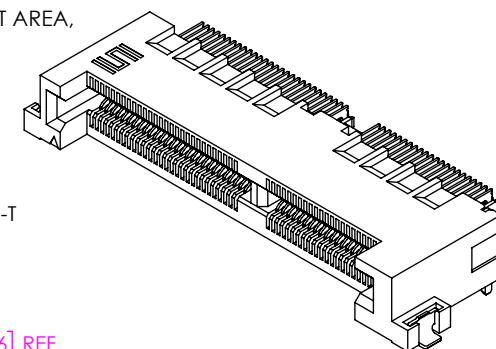
DETAIL 'A'  
SCALE 6:1

TABLE 1

| NO OF POS | "A"           | "B"           | "C"           |
|-----------|---------------|---------------|---------------|
| -030      | 23.38 [0.920] | 17.10 [0.673] | N/A           |
| -040      | 28.38 [1.117] | 22.10 [0.870] | N/A           |
| -050      | 35.88 [1.413] | 29.60 [1.165] | 15.44 [0.608] |
| -060      | 40.88 [1.609] | 34.60 [1.362] | 17.94 [0.706] |
| -070      | 45.88 [1.806] | 39.60 [1.559] | 20.44 [0.805] |
| -080      | 50.88 [2.003] | 44.60 [1.756] | 22.94 [0.903] |

| NO OF POS | "D"           | "E"           | "F"           |
|-----------|---------------|---------------|---------------|
| -030      | N/A           | 14.50 [0.571] | 18.16 [0.715] |
| -040      | N/A           | 19.50 [0.768] | 23.16 [0.912] |
| -050      | 13.50 [0.531] | 27.00 [1.063] | 30.66 [1.207] |
| -060      | 16.00 [0.630] | 32.00 [1.260] | 35.66 [1.404] |
| -070      | 18.50 [0.728] | 37.00 [1.457] | 40.66 [1.601] |
| -080      | 21.00 [0.827] | 42.00 [1.654] | 45.66 [1.798] |

FIG 1

MEC5-050-01-X-D-RA-W2-TR SHOWN

## NOTES:

- ⊗ REPRESENTS A CRITICAL DIMENSION.
- MINIMUM PUSHOUT FORCE: 0.5 LBS FOR C-401, WT-20, WT-51; 1.0 LBS FOR C-403.
- MEASURE BOTH TOP AND BOTTOM ROWS.
- POLARIZATION RIB IS NOT PRESENT ON -030 & -040 POSITIONS.
- FOR QUANTITIES UP TO 49 PCS., NO LEADER, TRAILER OR REEL WILL BE SUPPLIED.  
FOR QUANTITIES OF 50-124 PCS., NO LEADER OR TRAILER WILL BE SUPPLIED,  
SPLICES MAY BE PRESENT.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

| DECIMALS              | ANGLES |
|-----------------------|--------|
| X.X: ±0.3 [.01]       | 2°     |
| X.XX: ±0.10 [.004]    |        |
| X.XXX: ±0.051 [.0020] |        |

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MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, UL 94 V0, COLOR: BLACK  
CONTACT: Cu ALLOY  
WELD TAB: BRASS ALLOY

SHEET SCALE: 3:1

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 53322

DESCRIPTION:

0.5mm HIGH SPEED EDGE CARD ASSEMBLY

DWG. NO.

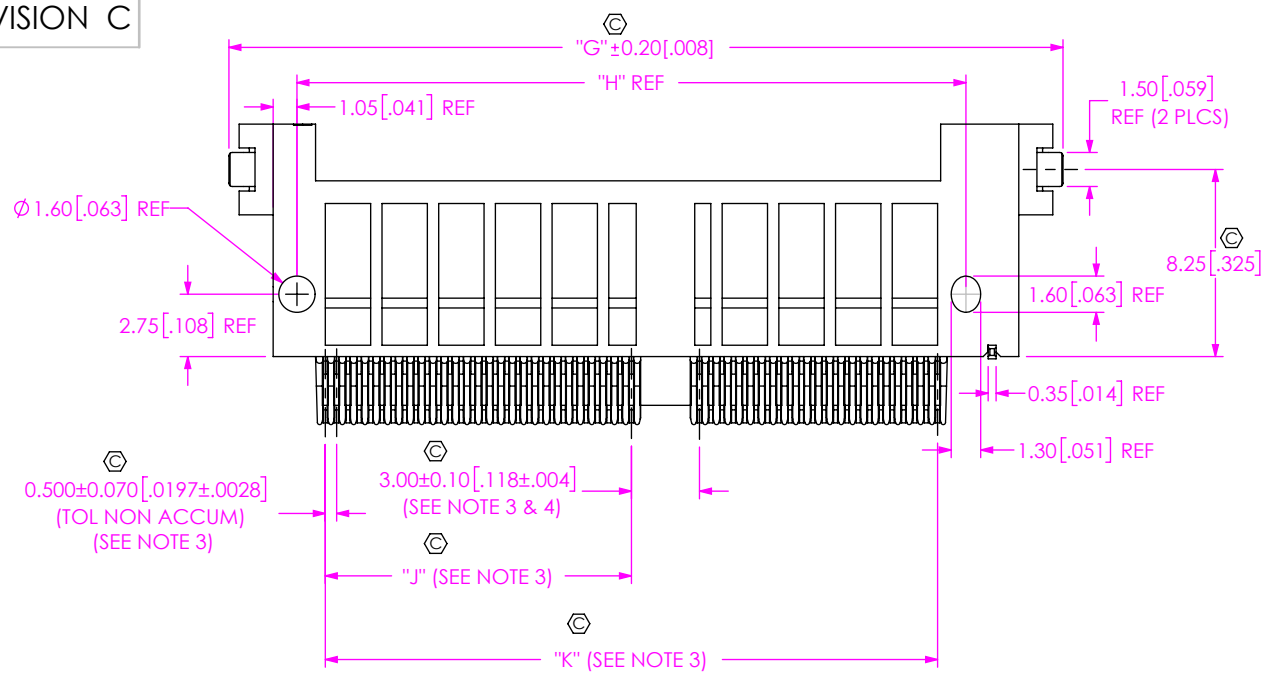
MEC5-XXX-XX-X-RA-XX-TR

BY: JESSIE W

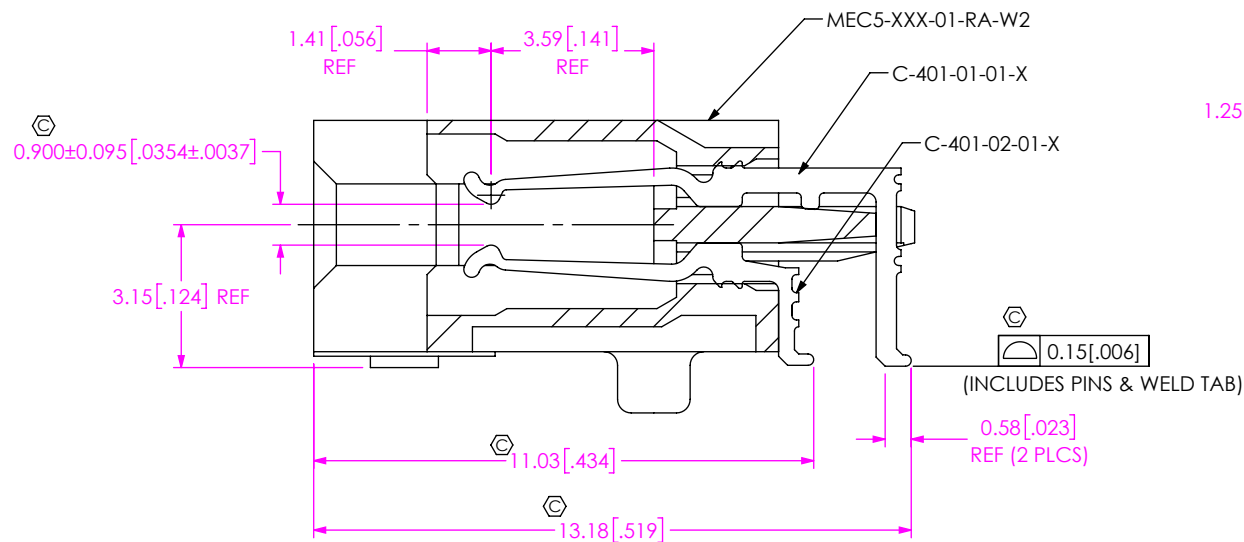
6/3/2015

SHEET 1 OF 4

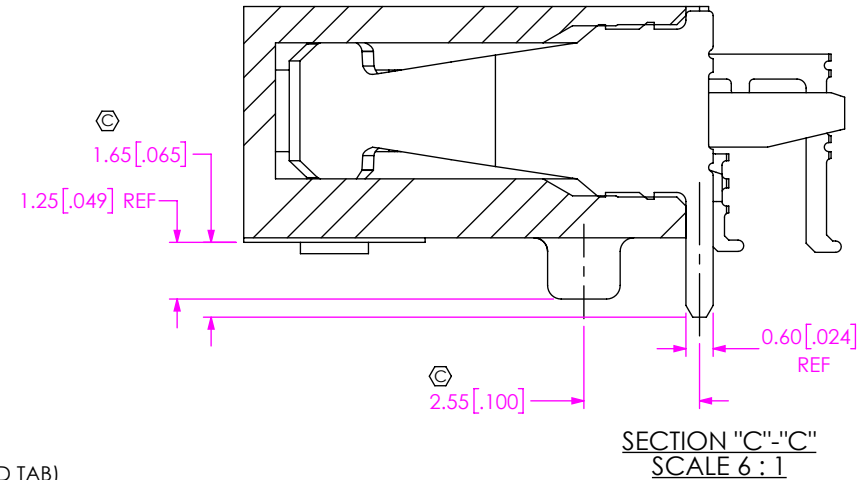
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BOTTOM VIEW



SECTION "B"-"B"  
SCALE 6 : 1



| NO OF<br>POS | "G"           | "H"           |
|--------------|---------------|---------------|
| -030         | 24.28 [0.956] | 17.00 [0.669] |
| -040         | 29.28 [1.153] | 22.00 [0.866] |
| -050         | 36.78 [1.448] | 29.50 [1.161] |
| -060         | 41.78 [1.645] | 34.50 [1.358] |
| -070         | 46.78 [1.842] | 39.50 [1.555] |
| -080         | 51.78 [2.039] | 44.50 [1.752] |

| NO OF<br>POS | "J"           | "K"           |
|--------------|---------------|---------------|
| -030         | N/A           | 14.50 [0.571] |
| -040         | N/A           | 19.50 [0.768] |
| -050         | 13.50 [0.531] | 27.00 [1.063] |
| -060         | 16.00 [0.630] | 32.00 [1.260] |
| -070         | 18.50 [0.728] | 37.00 [1.457] |
| -080         | 21.00 [0.827] | 42.00 [1.654] |

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SHEET SCALE: 3:1



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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION:  
0.5mm HIGH SPEED EDGE CARD ASSEMBLY

MEC5-XXX-XX-X-RA-XX-TR

|              |          |              |
|--------------|----------|--------------|
| BY: JESSIE W | 6/3/2015 | SHEET 2 OF 4 |
|--------------|----------|--------------|

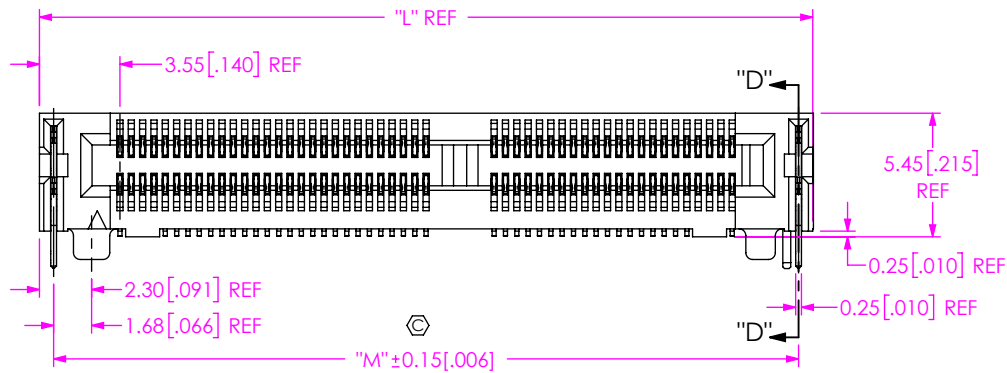
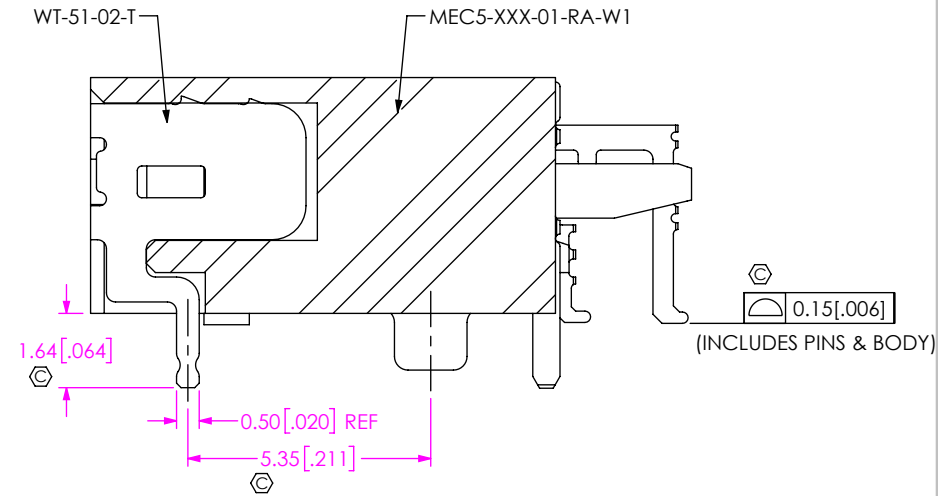
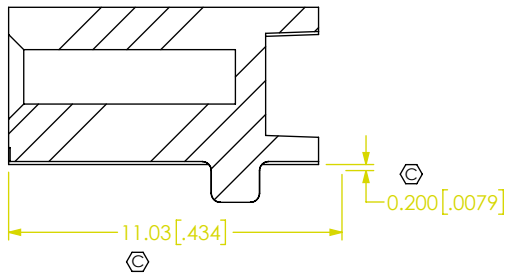


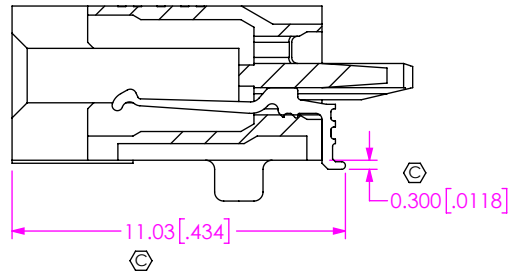
FIG 2  
MEC5-050-01-X-D-RA-W1-TR SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



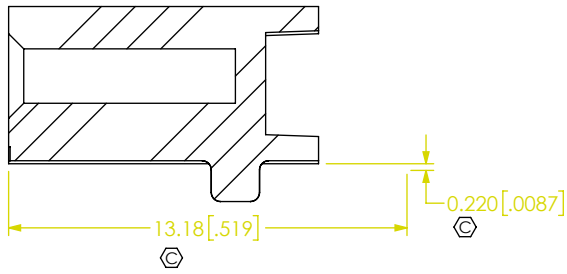
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SCALE 6 : 1



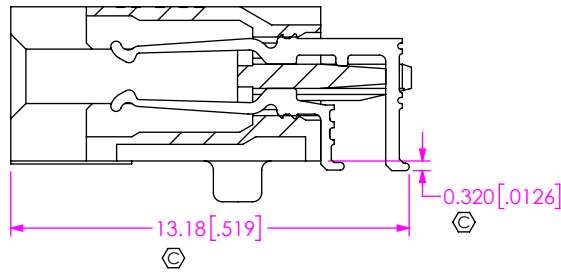
IN-PROCESS 1 FOR W1  
FILL C-401-02-01-X



IN-PROCESS 1 FOR W2  
FILL C-401-02-01-X



IN-PROCESS 2 FOR W1  
FILL C-401-01-01-X



IN-PROCESS 2 FOR W2  
FILL C-401-01-01-X

| TABLE 3   |               |               |
|-----------|---------------|---------------|
| NO OF POS | "L"           | "M"           |
| -030      | 22.88 [0.901] | 21.63 [0.852] |
| -040      | 27.88 [1.098] | 26.63 [1.048] |
| -050      | 35.38 [1.393] | 34.13 [1.344] |
| -060      | 40.38 [1.590] | 39.13 [1.541] |
| -070      | 45.38 [1.787] | 44.13 [1.737] |
| -080      | 50.38 [1.983] | 49.13 [1.934] |

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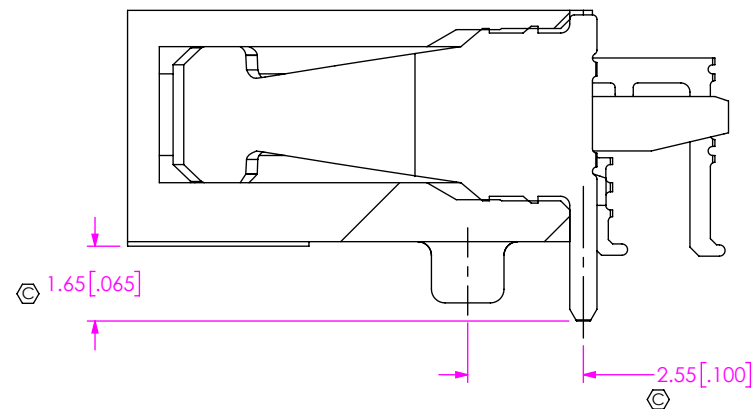
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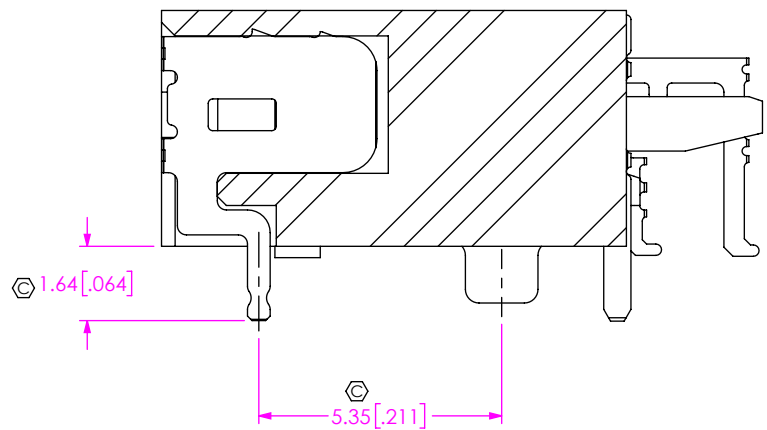
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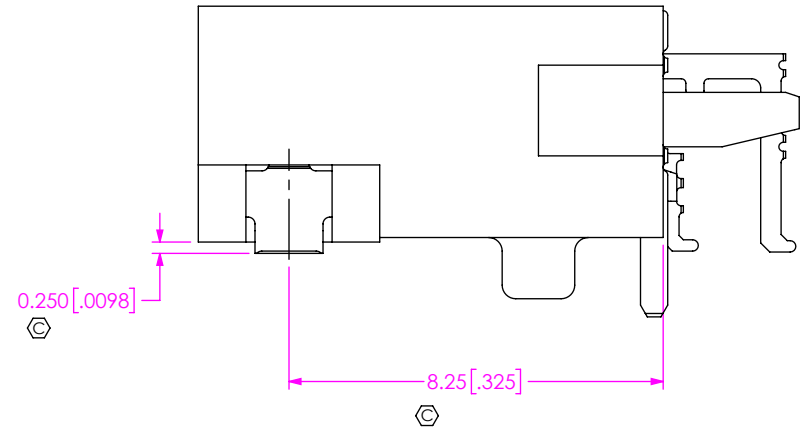
BY: JESSIE W 6/3/2015 SHEET 3 OF 4



IN-PROCESS 3  
FILL C-403-02-T



IN-PROCESS 4 FOR W1  
FILL WT-51-02-T



IN-PROCESS 4 FOR W2  
FILL WT-20-01-T

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