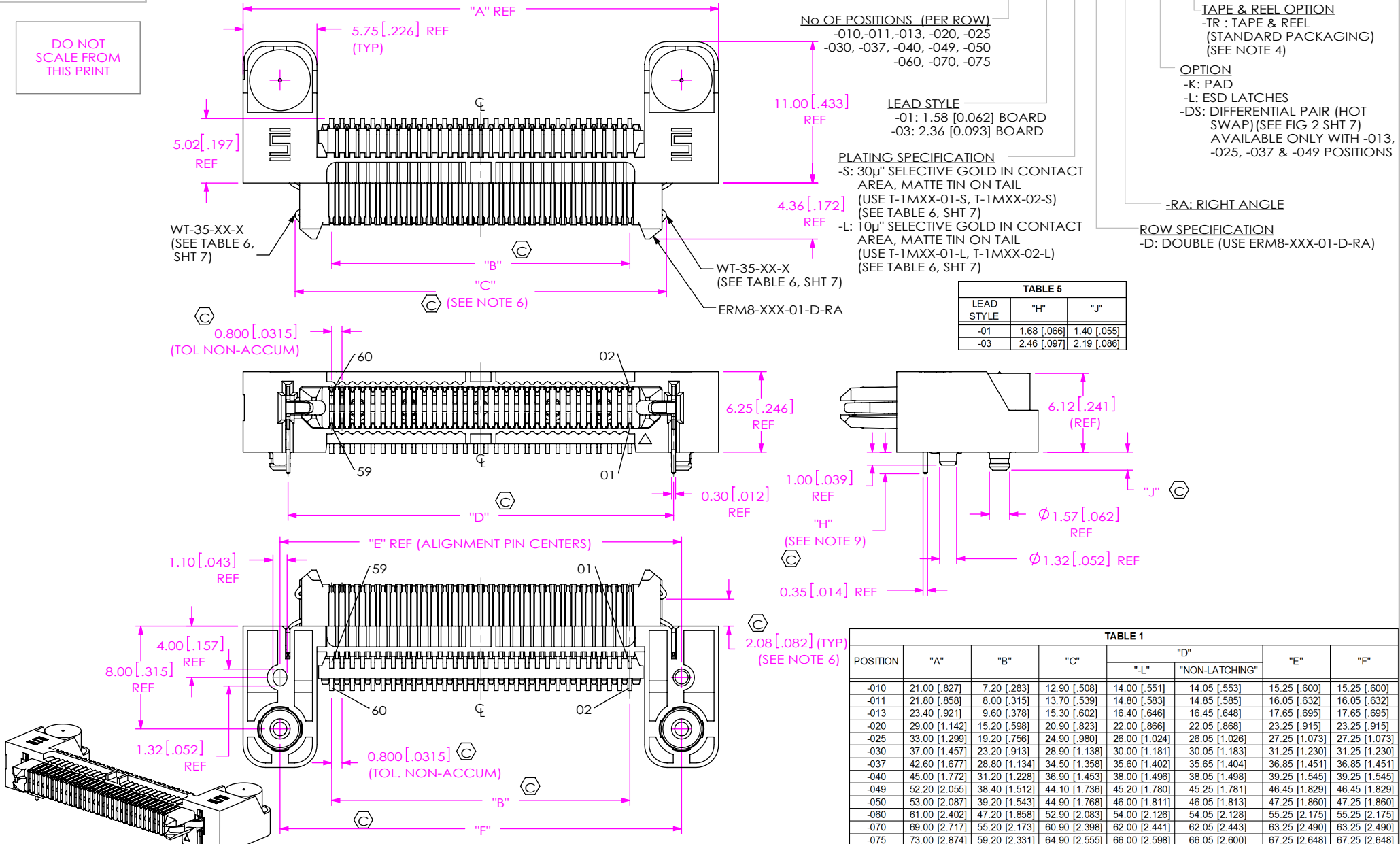


DO NOT SCALE FROM THIS PRINT



No OF POSITIONS (PER ROW)  
 -010, -011, -013, -020, -025  
 -030, -037, -040, -049, -050  
 -060, -070, -075

LEAD STYLE  
 -01: 1.58 [0.062] BOARD  
 -03: 2.36 [0.093] BOARD

PLATING SPECIFICATION  
 -S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1MXX-01-S, T-1MXX-02-S) (SEE TABLE 6, SHT 7)  
 -L: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1MXX-01-L, T-1MXX-02-L) (SEE TABLE 6, SHT 7)

TAPE & REEL OPTION  
 -TR : TAPE & REEL (STANDARD PACKAGING) (SEE NOTE 4)  
 OPTION  
 -K: PAD  
 -L: ESD LATCHES  
 -DS: DIFFERENTIAL PAIR (HOT SWAP)(SEE FIG 2 SHT 7) AVAILABLE ONLY WITH -013, -025, -037 & -049 POSITIONS

-RA: RIGHT ANGLE

ROW SPECIFICATION  
 -D: DOUBLE (USE ERM8-XXX-01-D-RA)

TABLE 5

| LEAD STYLE | "H"          | "J"          |
|------------|--------------|--------------|
| -01        | 1.68 [0.066] | 1.40 [0.055] |
| -03        | 2.46 [0.097] | 2.19 [0.086] |

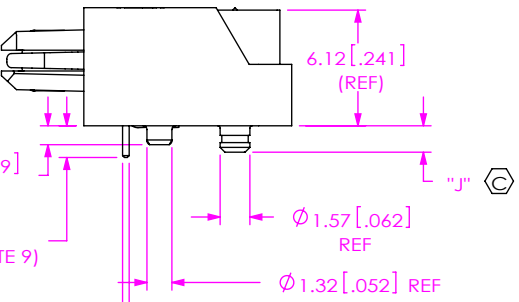


TABLE 1

| POSITION | "A"           | "B"           | "C"           | "D"           |                | "E"           | "F"           |
|----------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|
|          |               |               |               | "-L"          | "NON-LATCHING" |               |               |
| -010     | 21.00 [0.827] | 7.20 [0.283]  | 12.90 [0.508] | 14.00 [0.551] | 14.05 [0.553]  | 15.25 [0.600] | 15.25 [0.600] |
| -011     | 21.80 [0.858] | 8.00 [0.315]  | 13.70 [0.539] | 14.80 [0.583] | 14.85 [0.585]  | 16.05 [0.632] | 16.05 [0.632] |
| -013     | 23.40 [0.921] | 9.60 [0.378]  | 15.30 [0.602] | 16.40 [0.646] | 16.45 [0.648]  | 17.65 [0.695] | 17.65 [0.695] |
| -020     | 29.00 [1.142] | 15.20 [0.598] | 20.90 [0.823] | 22.00 [0.866] | 22.05 [0.868]  | 23.25 [0.915] | 23.25 [0.915] |
| -025     | 33.00 [1.299] | 19.20 [0.756] | 24.90 [0.980] | 26.00 [1.024] | 26.05 [1.026]  | 27.25 [1.073] | 27.25 [1.073] |
| -030     | 37.00 [1.457] | 23.20 [0.913] | 28.90 [1.138] | 30.00 [1.181] | 30.05 [1.183]  | 31.25 [1.230] | 31.25 [1.230] |
| -037     | 42.60 [1.677] | 28.80 [1.134] | 34.50 [1.358] | 35.60 [1.402] | 35.65 [1.404]  | 36.85 [1.451] | 36.85 [1.451] |
| -040     | 45.00 [1.772] | 31.20 [1.228] | 36.90 [1.453] | 38.00 [1.496] | 38.05 [1.498]  | 39.25 [1.545] | 39.25 [1.545] |
| -049     | 52.20 [2.055] | 38.40 [1.512] | 44.10 [1.736] | 45.20 [1.780] | 45.25 [1.781]  | 46.45 [1.829] | 46.45 [1.829] |
| -050     | 53.00 [2.087] | 39.20 [1.543] | 44.90 [1.768] | 46.00 [1.811] | 46.05 [1.813]  | 47.25 [1.860] | 47.25 [1.860] |
| -060     | 61.00 [2.402] | 47.20 [1.858] | 52.90 [2.083] | 54.00 [2.126] | 54.05 [2.128]  | 55.25 [2.175] | 55.25 [2.175] |
| -070     | 69.00 [2.717] | 55.20 [2.173] | 60.90 [2.398] | 62.00 [2.441] | 62.05 [2.443]  | 63.25 [2.490] | 63.25 [2.490] |
| -075     | 73.00 [2.874] | 59.20 [2.331] | 64.90 [2.555] | 66.00 [2.598] | 66.05 [2.600]  | 67.25 [2.648] | 67.25 [2.648] |

- NOTES:
1. REPRESENTS A CRITICAL DIMENSION.
  2. BURR ALLOWANCE: .02[0.001] MAX.
  3. MINIMUM PUSHOUT /PULLOUT FORCE: SIGNAL: 2.22 N [0.5 LB], LATCH AND COUNTERWEIGHT: 4.45 N [1 LB].
  4. FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR EIA-481-D REEL TO BE SUPPLIED. FOR QUANTITIES FROM 50-124 PIECES, NO LEADER OR TRAILER WILL BE SUPPLIED.
  5. MEASURE AT BEND TANGENCY.
  6. APPLIES TO -L OPTION ONLY.
  7. MAXIMUM CUT BURR ON CUT TAILS IS 0.10[0.004].
  8. DIMENSIONS MUST BE MEASURED BOTH ENDS OF COMB OR CONNECTOR.
  9. USE -Z- DATUM ZONE FOR MEASUREMENT ONLY.
  10. SEE PTL SYSTEM FOR REQUIRED INSPECTION FIXTURE TO CHECK TAIL CRITICALS.

FIG 1  
ERM8-030-01-S-D-RA-L

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS [INCHES]. TOLERANCES ARE: DECIMALS ANGLES 2°  
 X.X: ±0.3 [0.01]  
 X.XX: ±0.13 [0.005]  
 X.XXX: ±0.050 [0.0020]

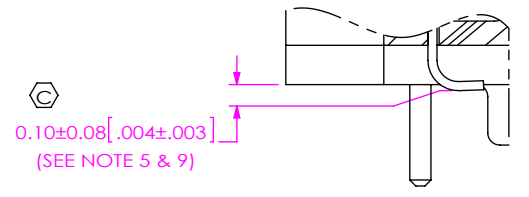
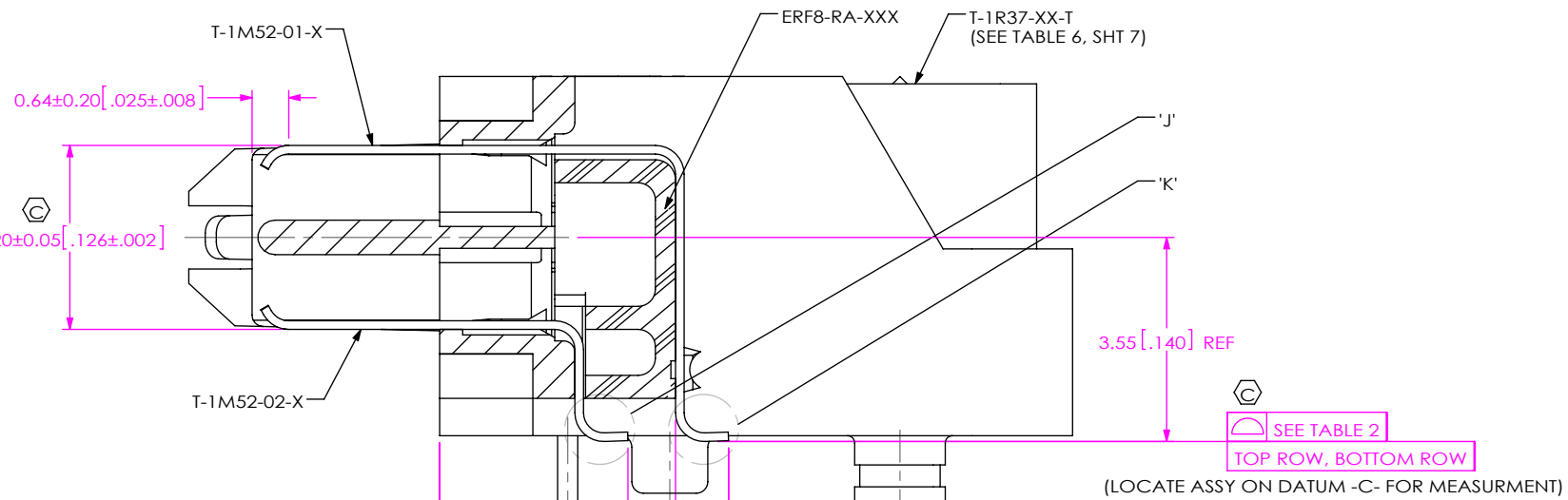
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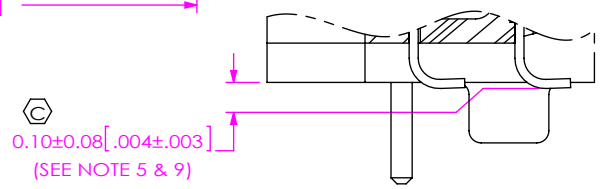
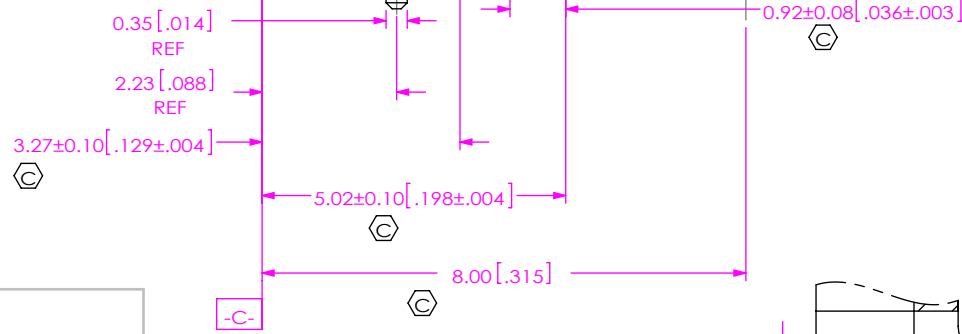
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
 PHONE: 812-944-6733 FAX: 812-948-5047  
 e-Mail info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1  
 INSULATOR: LCP UL94V-0, COLOR BLACK  
 CONTACTS: PHOS BRONZE  
 COUNTERWEIGHT: BRASS  
 LATCHES: BeCu

DESCRIPTION:  
 80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY  
 DWG. NO.  
**ERM8-XXX-XX-X-D-RA-XX-TR**  
 BY: C. PIERCE 8/17/2007 SHEET 1 OF 7

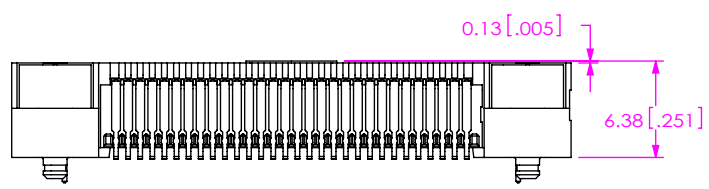
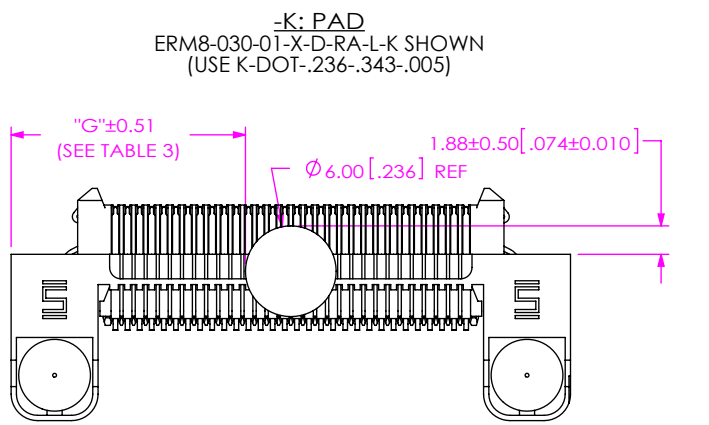


DETAIL 'J'  
 BOTTOM ROW TAIL  
 (LOCATE ASSY ON DATUM -C- FOR MEASUREMENT)



DETAIL 'K'  
 TOP ROW TAIL  
 (LOCATE ASSY ON DATUM -C- FOR MEASUREMENT)

| TABLE 3 |       |
|---------|-------|
| POS     | "G"   |
| -010    | 7.50  |
| -011    | 7.90  |
| -013    | 8.70  |
| -020    | 11.50 |
| -025    | 13.50 |
| -030    | 15.50 |
| -037    | 18.30 |
| -040    | 19.50 |
| -049    | 23.10 |
| -050    | 23.50 |
| -060    | 27.50 |
| -070    | 31.50 |
| -075    | 33.50 |



| TABLE 2         |                         |                      |               |
|-----------------|-------------------------|----------------------|---------------|
| No OF POSITIONS | BOTTOM ROW STRAIGHTNESS | TOP ROW STRAIGHTNESS | COPLANARITY   |
| -010 THRU -050  | 0.08 [ .003 ]           | 0.08 [ .003 ]        | 0.10 [ .004 ] |
| -060 THRU -075  | 0.10 [ .004 ]           | 0.10 [ .004 ]        | 0.15 [ .006 ] |

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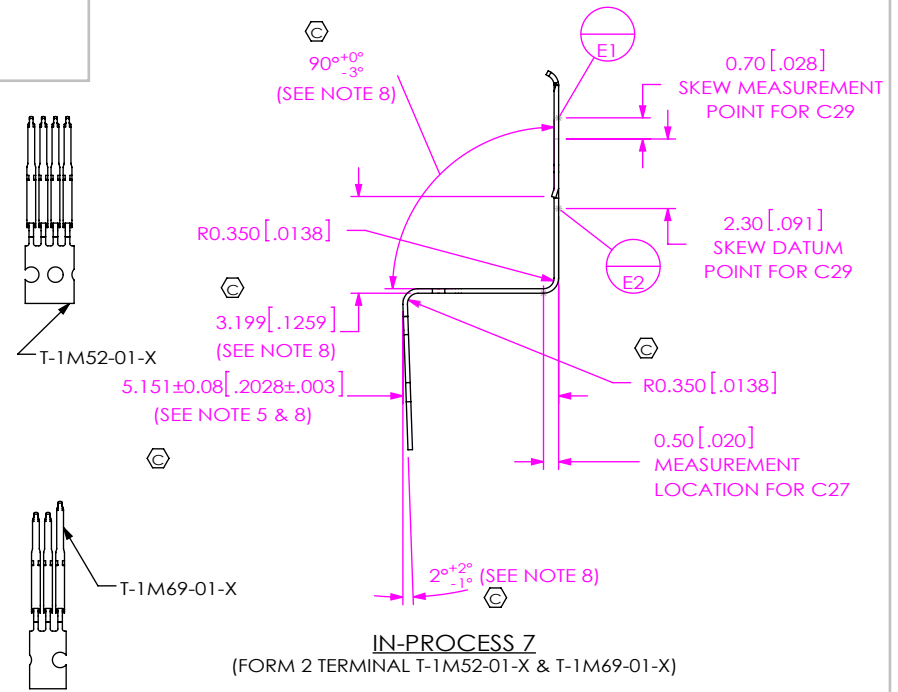
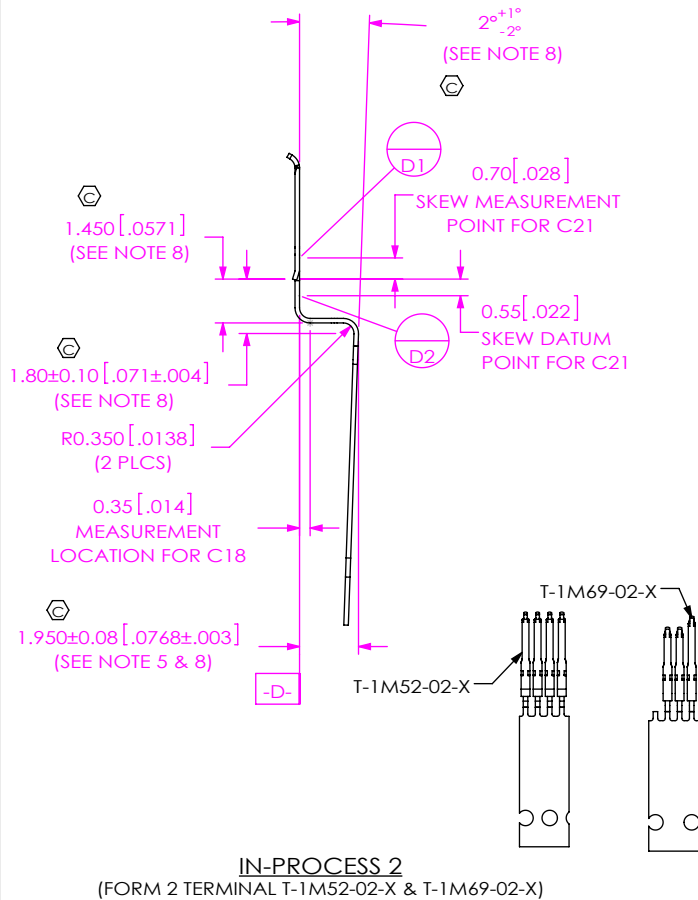
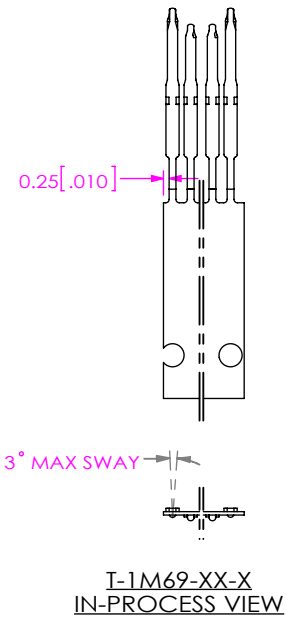
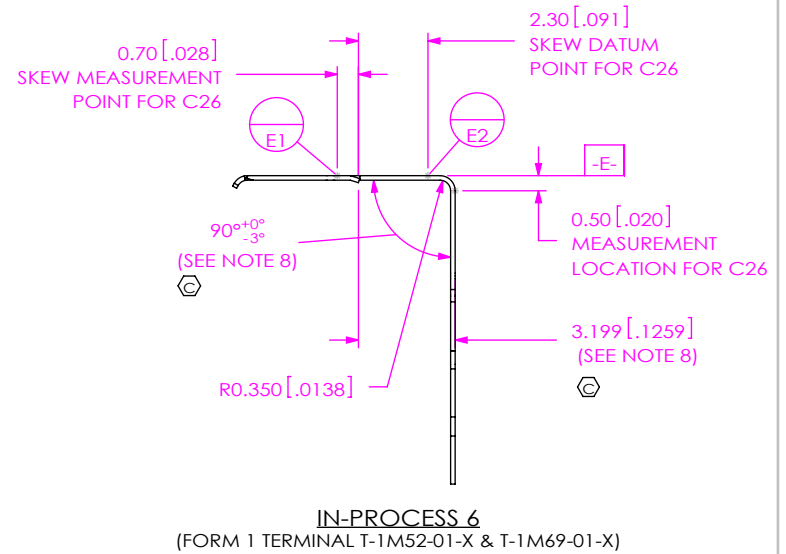
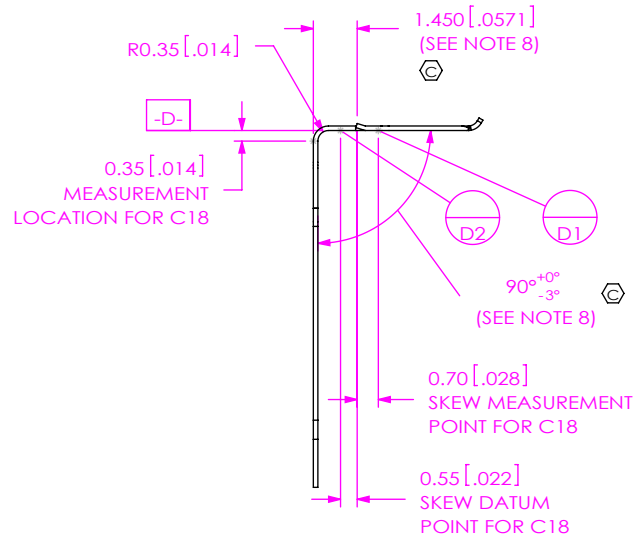
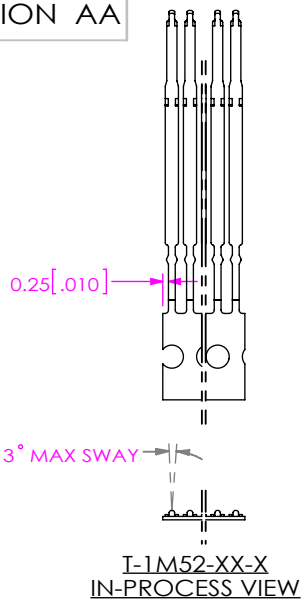


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 e-Mail info@SAMTEC.com code 55322

DO NOT SCALE DRAWING  
 SHEET SCALE: 8:1

DESCRIPTION:  
 .80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY  
 DWG. NO.  
**ERM8-XXX-XX-X-D-RA-XX-TR**  
 BY: C. PIERCE 8/17/2007 SHEET 2 OF 7

REVISION AA



F:\DWG\MISC\MKTG\ERM8-XXX-XX-X-D-RA-XX-TR-MKT.SLDRW

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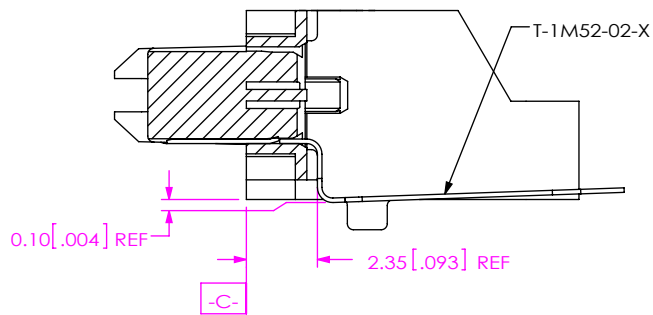
DO NOT SCALE DRAWING

SHEET SCALE: 4:1

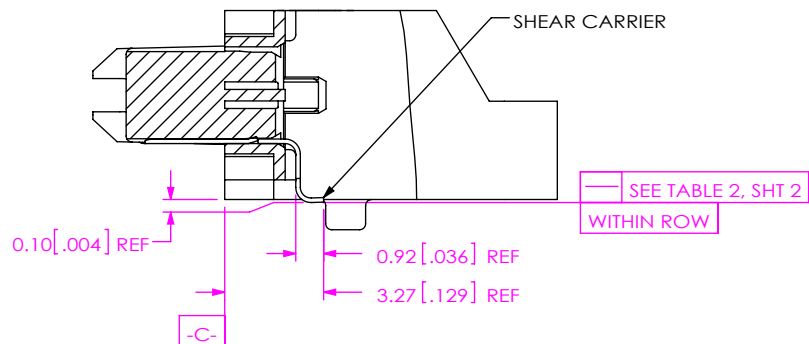
DESCRIPTION:  
.80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.  
**ERM8-XXX-XX-X-D-RA-XX-TR**

BY: C. PIERCE 8/17/2007 SHEET 3 OF 7

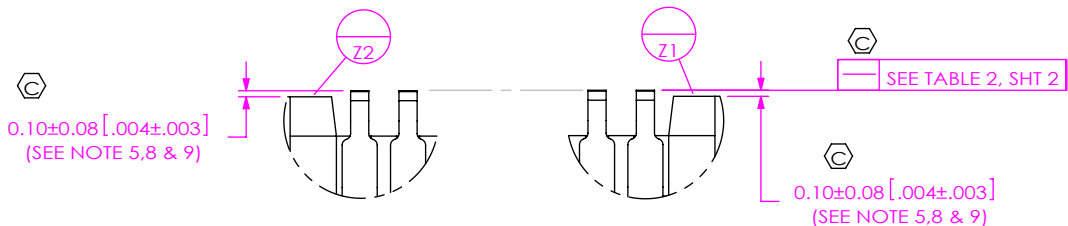
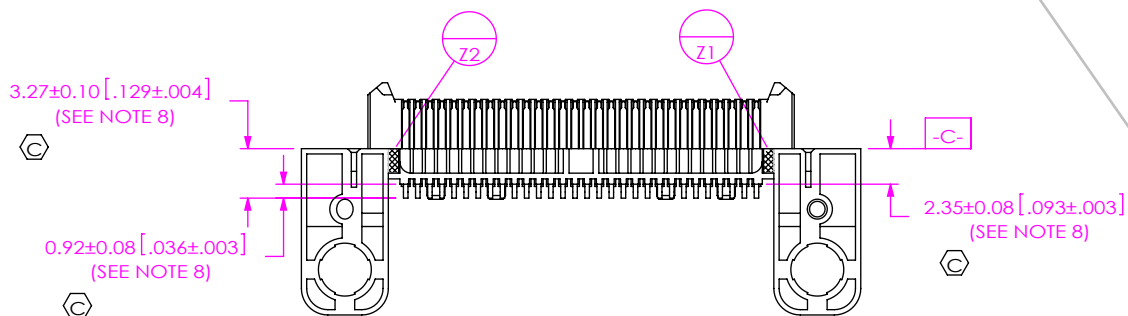


**IN-PROCESS 3**  
(FILL BOTTOM ROW)  
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)



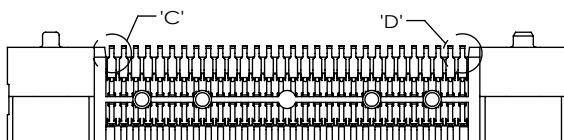
**IN-PROCESS 4**  
(CUT OFF CARRIER)  
(SEE INSPECTION VIEW 1 FOR ASSEMBLY ORIENTATION AND CPC'S)

**INSPECTION VIEW 1**  
(SEE NOTE 10)

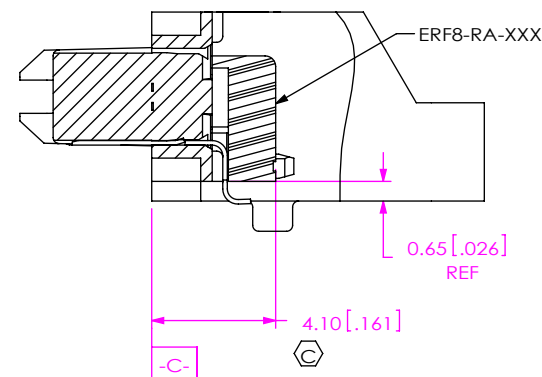


**DETAIL 'C'**  
SCALE 8 : 1

**DETAIL 'D'**  
SCALE 8 : 1



**INSPECTION FOR IN-PROCESS 3 & 4**  
(CARRIER NOT SHOWN FOR IN PROCESS 3 INSPECTIONS)



**IN-PROCESS 5**  
FILL ERF8-RA-XXX

F:\DWG\MISC\MKTG\ERM8-XXX-XX-X-D-RA-XX-TR-MKT.SLDDRW

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SHEET SCALE: 4:1

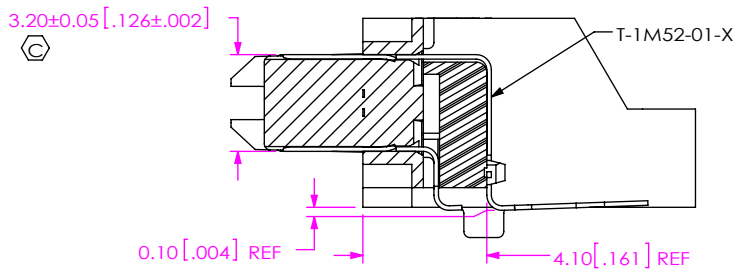


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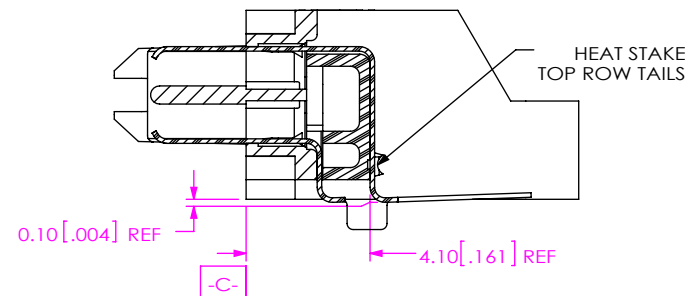
DESCRIPTION:  
.80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.  
**ERM8-XXX-XX-X-D-RA-XX-TR**

BY: C. PIERCE 8/17/2007 SHEET 4 OF 7

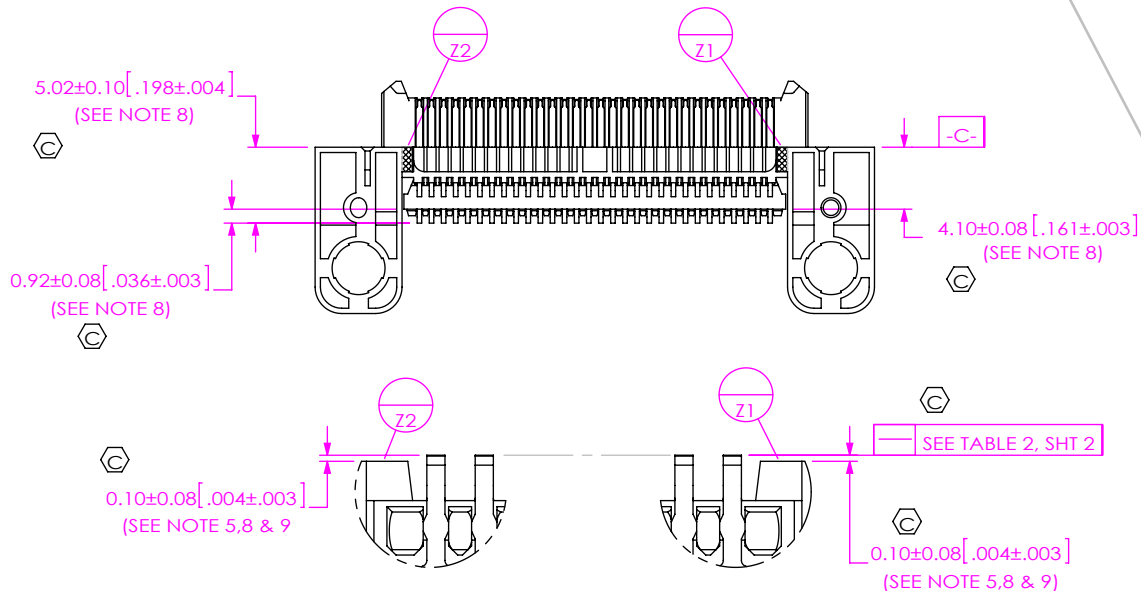


**IN-PROCESS 8**  
(FILL TOP ROW)  
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)



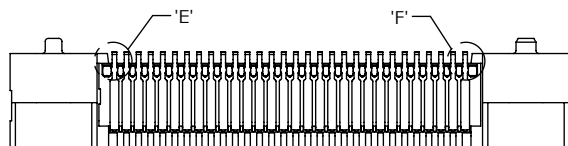
**IN-PROCESS 9**  
(HEAT STAKE TOP ROW OF CONTACTS)  
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

**INSPECTION VIEW 2**  
(SEE NOTE 10)

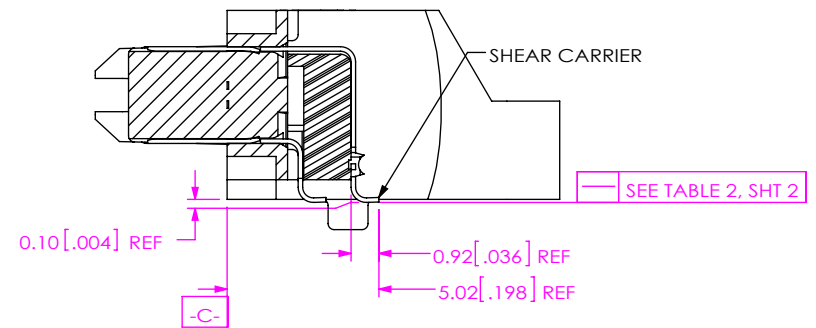


**DETAIL 'E'**  
SCALE 8 : 1

**DETAIL 'F'**  
SCALE 8 : 1



**INSPECTION FOR IN-PROCESS 8, 9 & 10**  
(CARRIER NOT SHOWN FOR IN PROCESS 8 INSPECTIONS)



**IN-PROCESS 10**  
(CUT OFF CARRIER)  
(SEE INSPECTION VIEW 2 FOR ASSEMBLY ORIENTATION AND CPC'S)

F:\DWG\MISC\MKTG\ERM8-XXX-XX-X-D-RA-XX-TR-MKT.SLDDRW

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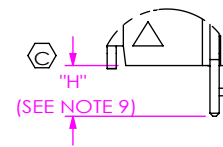
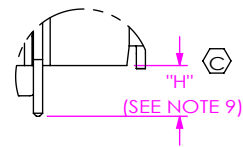
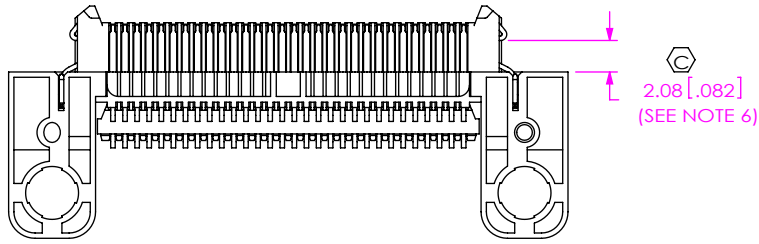
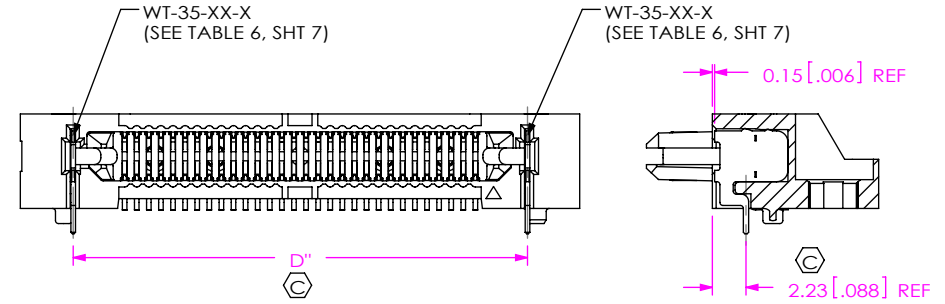
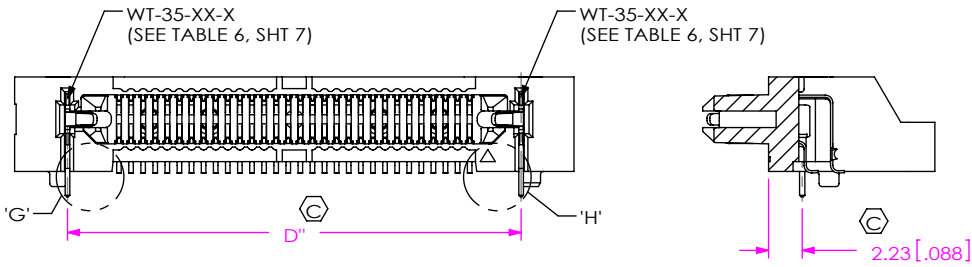
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
.80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.

**ERM8-XXX-XX-X-D-RA-XX-TR**

BY: C. PIERCE 8/17/2007 SHEET 5 OF 7

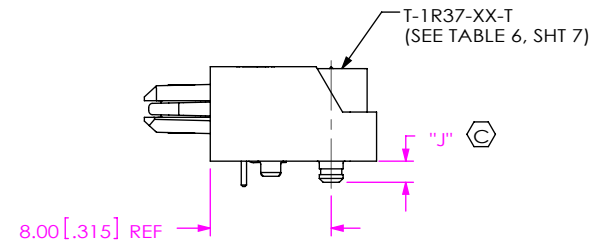
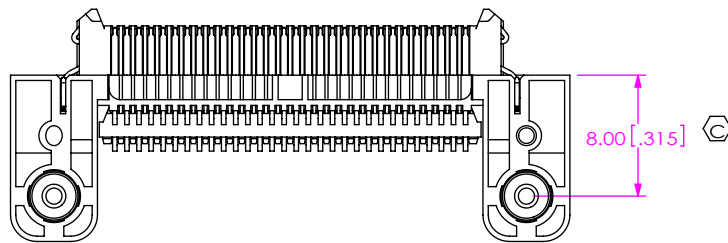


IN-PROCESS 11  
FILL WT-35-XX-F  
(ERM8-030-01-S-D-RA-L SHOWN)

IN-PROCESS 11  
FILL WT-35-XX-F  
(ERM8-030-01-S-D-RA SHOWN)

DETAIL 'G'  
SCALE 4 : 1

DETAIL 'H'  
SCALE 4 : 1



IN-PROCESS 12  
FILL T-1R37-XX-T  
(SEE TABLE 6, SHT 7)

F:\DWG\MISC\MKTG\ERM8-XXX-XX-X-D-RA-XX-TR-MKT.SLDDRW

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SHEET SCALE: 2:1



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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
.80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY

DWG. NO.

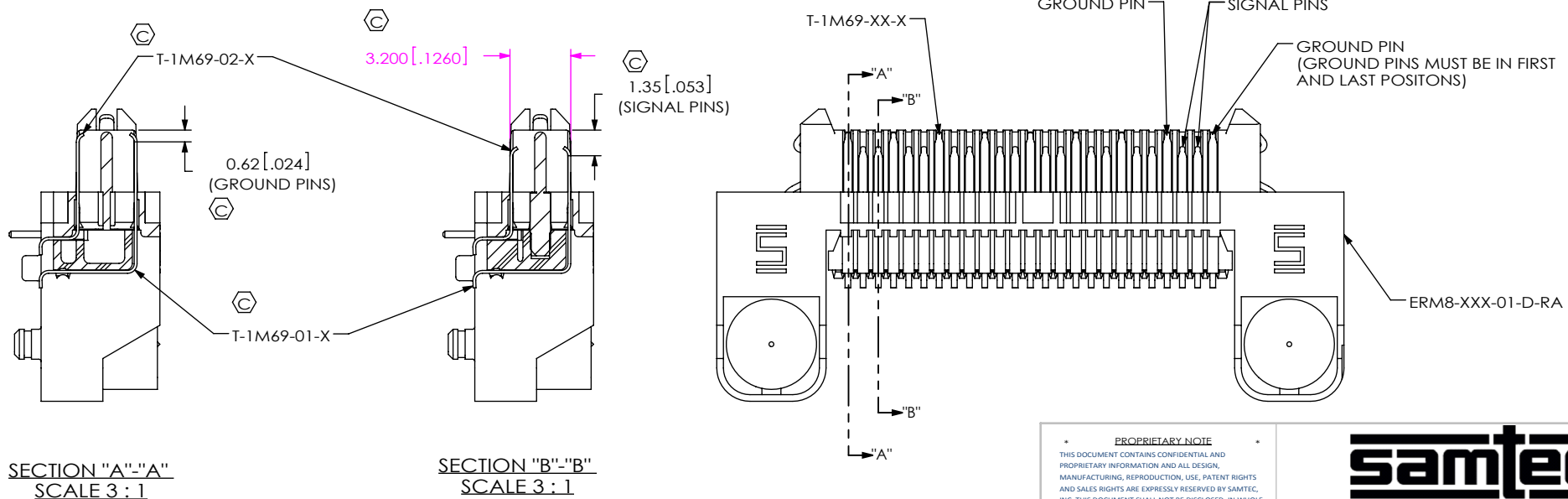
ERM8-XXX-XX-X-D-RA-XX-TR

BY: C. PIERCE 8/17/2007

SHEET 6 OF 7

**TABLE 6**

| OPTION   | STYLE | BODY CALLOUT     | SPACER BODY | TERMINALS                  | COUNTERWEIGHT | WELD TABS                |
|----------|-------|------------------|-------------|----------------------------|---------------|--------------------------|
| NONE     | -01   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M52-01-X<br>T-1M52-02-X | T-1R37-01-X   | WT-35-03-T               |
|          | -03   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M52-01-X<br>T-1M52-02-X | T-1R37-02-X   | WT-35-06-T               |
| -L       | -01   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M52-01-X<br>T-1M52-02-X | T-1R37-01-X   | WT-35-01-F<br>WT-35-02-F |
|          | -03   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M52-01-X<br>T-1M52-02-X | T-1R37-02-X   | WT-35-04-F<br>WT-35-05-F |
| -DS      | -01   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M69-01-X<br>T-1M69-02-X | T-1R37-01-X   | WT-35-03-T               |
|          | -03   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M69-01-X<br>T-1M69-02-X | T-1R37-02-X   | WT-35-06-T               |
| -DS & -L | -01   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M69-01-X<br>T-1M69-02-X | T-1R37-01-X   | WT-35-01-F<br>WT-35-02-F |
|          | -03   | ERM8-XXX-01-D-RA | ERF8-RA-XX  | T-1M69-01-X<br>T-1M69-02-X | T-1R37-02-X   | WT-35-04-F<br>WT-35-05-F |



SECTION "A"-A"  
SCALE 3 : 1

SECTION "B"-B"  
SCALE 3 : 1

**FIG 2**  
ERM8-025-01-X-D-RA-DS-L SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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DO NOT SCALE DRAWING  
  
SHEET SCALE: 2:1

**samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
.80mm DUAL ROW RIGHT ANGLE SOCKET ASSEMBLY  
DWG. NO.  
**ERM8-XXX-XX-X-D-RA-XX-TR**  
BY: C. PIERCE 8/17/2007 SHEET 7 OF 7