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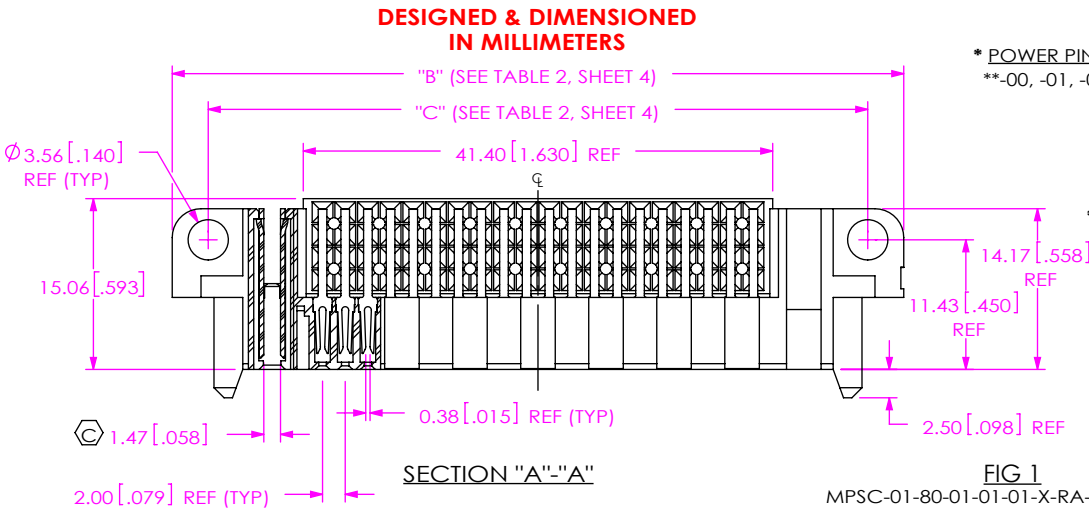
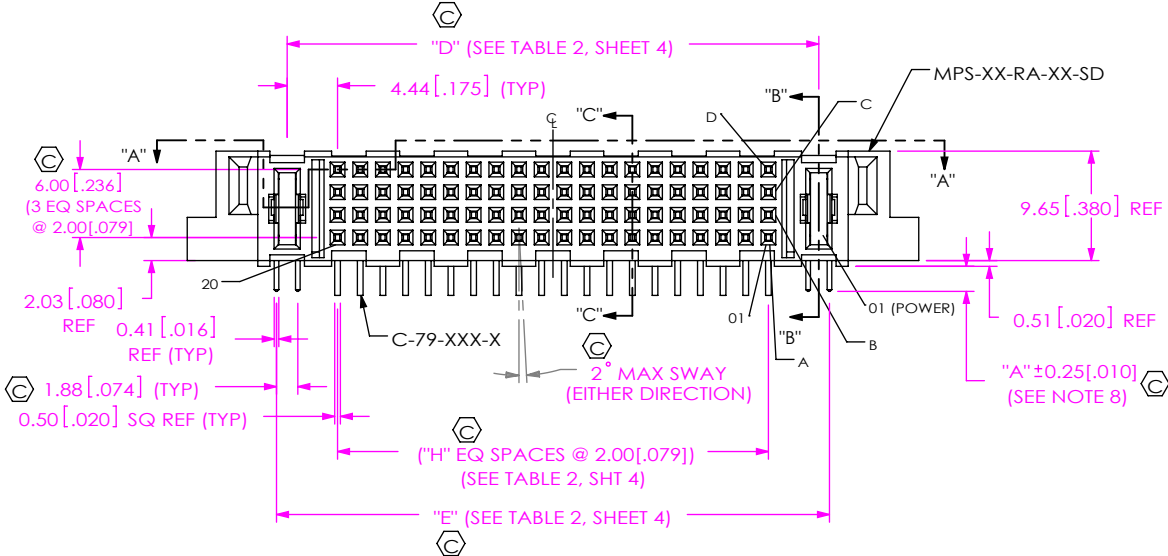


FIG 1  
MPSC-01-80-01-01-01-X-RA-SD SHOWN

- MPSC-XX-XX-XX-01-XX-X-RA-XX**
- \* **POWER PINS (PER END)**  
\*\*-00, -01, -02,
  - \* **SIGNAL PINS**  
-16: (4 x 4)  
-24: (4 x 6)  
-40: (4X10)  
-80: (4 X 20)
  - \* **POWER PINS (PER END)**  
-01, -02, \*\*-03, \*\*-04
  - OPTION**  
-SD: SCREW DOWN (SEE FIG 1)  
-LC: LOCKING CLIP (SEE FIG 2, SHT 2)  
(-SD OR -LC MUST BE SELECTED)
  - RIGHT ANGLE**
  - PLATING SPECIFICATION**  
-L: SEE TABLE 3, SHEET 4  
-T: SEE TABLE 3, SHEET 4
  - TAIL LENGTH**  
-01: FOR 1.57[.062] THICK PCB  
\*\*-02: FOR 2.36[.093] THICK PCB  
-03: FOR 2.36[.093] THICK PCB



\* = SEE TABLE 2 FOR AVAILABLE COMBINATIONS  
\*\* = NOT RELEASED  
\*\*\* = EXISTING CUSTOMERS ONLY

| TABLE 1                     |                 |             |                            |                |           |            |            |              |
|-----------------------------|-----------------|-------------|----------------------------|----------------|-----------|------------|------------|--------------|
| PART NUMBER                 | BODY            | SPACER BODY | POWER CONTACT SUB-ASSEMBLY | SIGNAL CONTACT |           |            |            | "A"          |
|                             |                 |             |                            | CONTACT 1      | CONTACT 2 | CONTACT 3  | CONTACT 4  |              |
| MPSC-XX-XX-XX-01-01-X-RA-XX | MPS-XX-RA-XX-XX | MP-XX-Q     | SUB-C-215-01-X             | C-79-12-L      | C-79-12-L | C-79-23B-L | C-79-23B-L | 2.20 [0.087] |
| MPSC-XX-XX-XX-01-03-X-RA-XX |                 |             | SUB-C-215-04-X             | C-79-12-L      | C-79-12-L | C-79-23B-L | C-79-23B-L | 3.00 [0.118] |

- NOTES:
1. REPRESENTS A CRITICAL DIMENSION.
  2. MAXIMUM BURR ALLOWANCE: 0.038[.0015]
  3. MINIMUM PUSHOUT FORCE: 4.45N[1.0 LB].
  4. PARTS TO BE PACKAGED IN TRAYS.
  5. BOW ALLOWED AT 0.075MM[.0030]/25.0MM[.98].
  6. NOTE DELETED.
  7. POSITION ONE MARK ON TRAYS DOES NOT CORRESPOND W/ POSITION 1 LOCATION ON PARTS.
  8. THIS DIMENSION APPLIES TO POWER AND SIGNAL PINS.
  9. NOTE DELETED.

**UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.**

TOLERANCES ARE:

|                      |        |
|----------------------|--------|
| DECIMALS             | ANGLES |
| .X: ±0.3 [.01]       | 2°     |
| .XX: ±0.13 [.005]    |        |
| .XXX: ±0.051 [.0020] |        |

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**SHEET SCALE:** 3:2

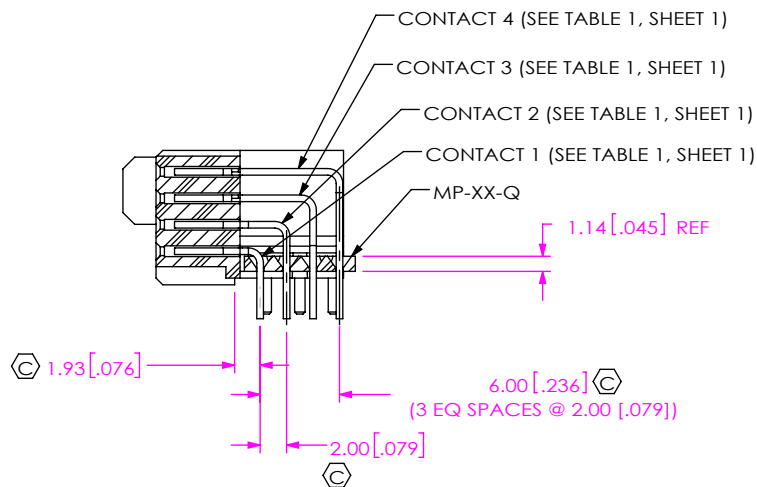
**MATERIAL:** DO NOT SCALE DRAWING  
INSULATOR: LCP, UL 94 V-0, COLOR: BLACK  
POWER CONTACT: COPPER ALLOY  
SIGNAL CONTACT: PHOS BRONZE

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

**DESCRIPTION:**  
RA MINI-POWER W/ SIGNAL SOCKET

DWG. NO.  
MPSC-XX-XX-XX-01-XX-X-RA-XX

BY: BRATCHER 2/20/2007 SHEET 1 OF 4



SECTION "C"-"C"

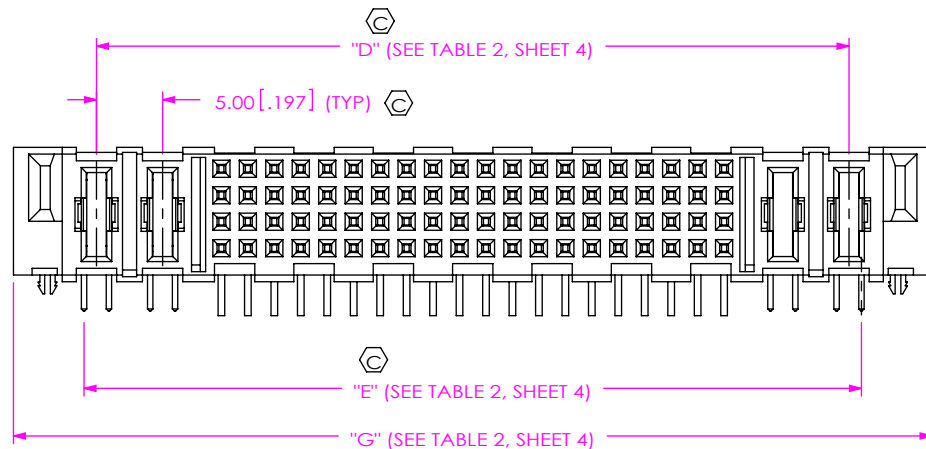


FIG 3  
MPSC-02-80-02-01-01-X-RA-LC SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

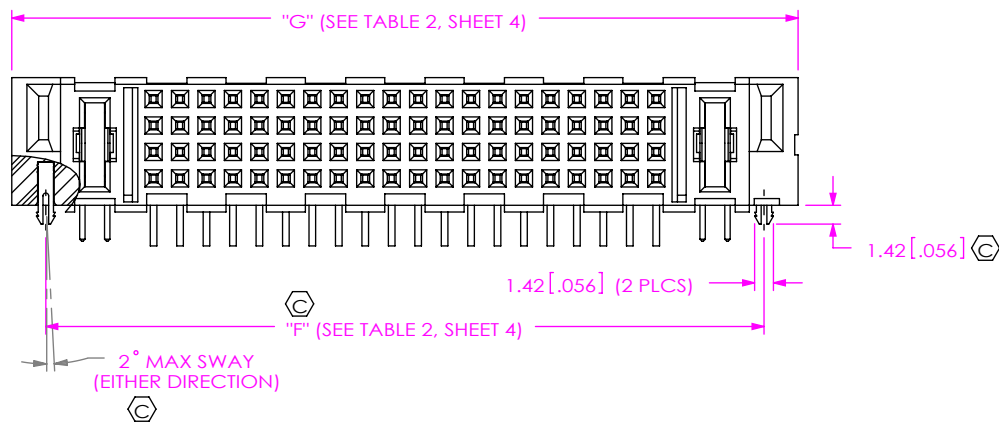
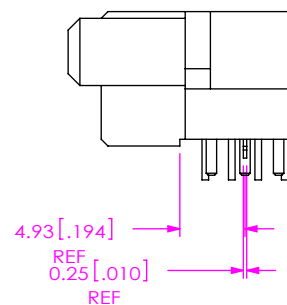


FIG 2  
MPSC-01-80-01-01-01-X-RA-LC SHOWN  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



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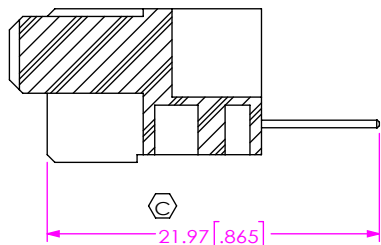
**samtec**

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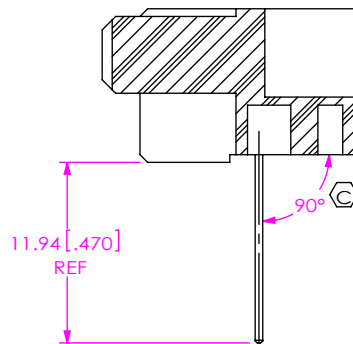
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DWG. NO.

MPSC-XX-XX-XX-01-XX-X-RA-XX

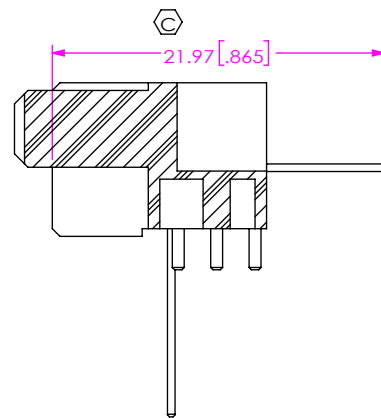
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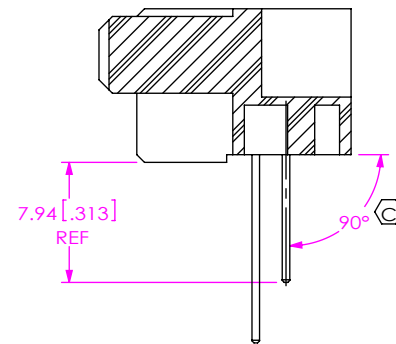
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FILL C-79-XXX-X ROW 1



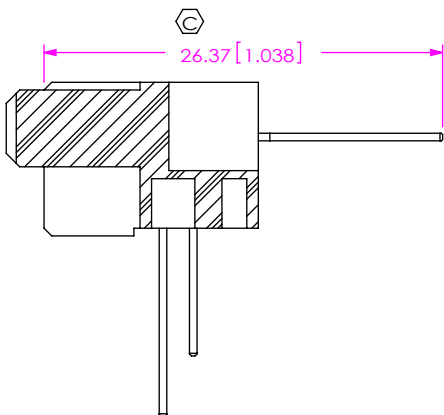
IN-PROCESS 2  
BEND ROW 1



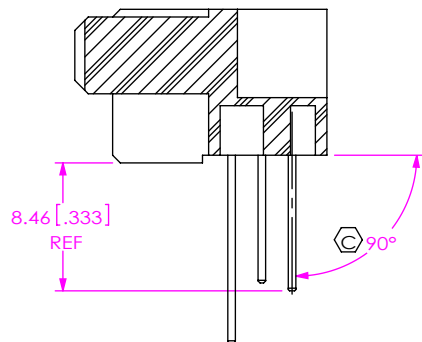
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FILL C-79-XXX-X ROW 2



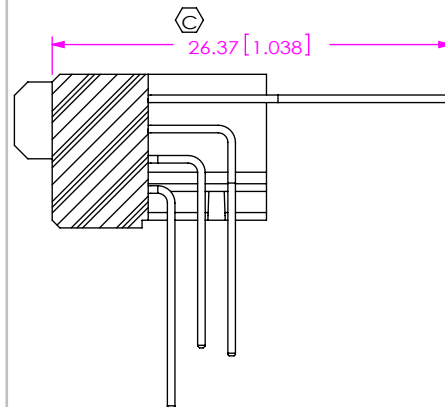
IN-PROCESS 4  
BEND ROW 2



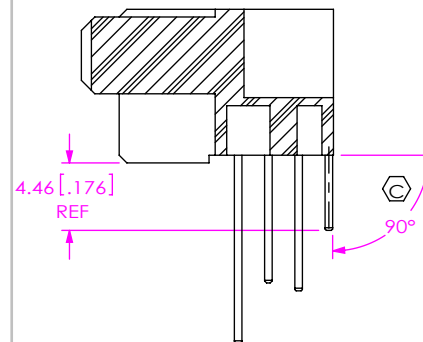
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FILL C-79-XXX-X ROW 3



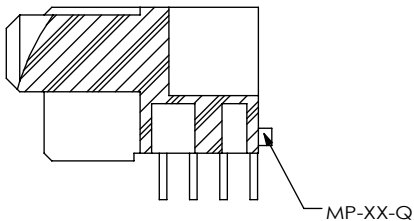
IN-PROCESS 6  
BEND ROW 3



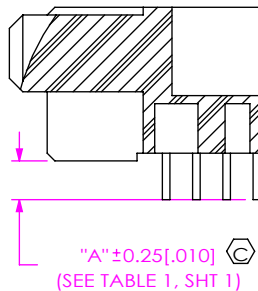
IN-PROCESS 7  
FILL C-79-XXX-X ROW 4



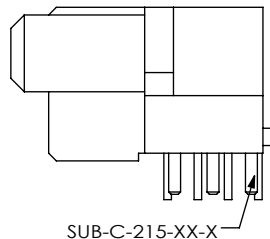
IN-PROCESS 8  
BEND ROW 4



IN-PROCESS 9  
ADD MP-XX-Q



IN-PROCESS 10  
SHEAR



IN-PROCESS 11  
FILL SUB-C-215-XX-X

F:\DWG\MISC\MKTG\MPSC-XX-XX-01-XX-X-RA-XX-MKT.SLDDRW

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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

DESCRIPTION:  
RA MINI-POWER W/ SIGNAL SOCKET

DWG. NO.  
MPSC-XX-XX-XX-01-XX-X-RA-XX

BY: BRATCHER 2/20/2007 SHEET 3 OF 4

TABLE 2

| PART NUMBER                 | BODY               | "B"<br>OAL -SD | "C"           | "D"           | "E"           | "F"           | "G"           | "H" |
|-----------------------------|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|-----|
| MPSC-01-80-01-XX-XX-X-RA-XX | MPS-02-RA-80-XX    | 64.52 [2.540]  | 58.17 [2.290] | 46.89 [1.846] | 48.77 [1.920] | 54.29 [2.137] | 59.44 [2.340] | 19  |
| MPSC-02-80-02-XX-XX-X-RA-XX | MPS-04-RA-80-XX    | 74.52 [2.934]  | 68.17 [2.684] | 56.89 [2.240] | 58.77 [2.314] | 64.29 [2.531] | 69.44 [2.734] | 19  |
| MPSC-01-40-01-XX-XX-X-RA-SD | MPS-02-RA-40-SD    | 44.52 [1.753]  | 38.17 [1.503] | 26.89 [1.059] | 28.77 [1.133] | 34.29 [1.350] | 39.44 [1.553] | 9   |
| MPSC-01-24-01-XX-XX-X-RA-XX | MPS-02-RA-24-XX    | 36.52 [1.438]  | 30.17 [1.188] | 18.89 [0.744] | 20.77 [0.818] | 26.29 [1.035] | 31.44 [1.238] | 5   |
| MPSC-02-24-02-XX-XX-X-RA-XX | MPS-04-RA-24-XX    | 46.52 [1.831]  | 40.17 [1.581] | 28.89 [1.137] | 30.77 [1.211] | 36.29 [1.429] | 41.44 [1.631] | 5   |
| MPSC-01-16-01-XX-XX-X-RA-SD | MPS-02-RA-16-SD    | 32.52 [1.280]  | 26.17 [1.030] | 14.89 [0.586] | 16.77 [0.660] | 22.29 [0.878] | 27.44 [1.080] | 3   |
| MPSC-02-16-02-XX-XX-X-RA-SD | MPS-04-RA-16-SD    | 42.52 [1.674]  | 36.17 [1.424] | 24.89 [0.980] | 26.77 [1.054] | 32.29 [1.271] | 37.44 [1.474] | 3   |
| MPSC-00-24-03-XX-XX-X-RA-XX | MPS-03-RA-24-XX-PS | 42.52 [1.674]  | 36.17 [1.424] | N/A           | N/A           | 32.29 [1.271] | 37.44 [1.474] | 5   |
| MPSC-00-24-04-XX-XX-X-RA-XX | MPS-04-RA-24-XX-PS | 47.52 [1.871]  | 41.17 [1.621] | N/A           | N/A           | 37.29 [1.468] | 42.44 [1.671] | 5   |
| MPSC-00-20-03-XX-XX-X-RA-XX | MPS-03-RA-20-XX-PS | 40.52 [1.595]  | 34.17 [1.345] | N/A           | N/A           | 30.29 [1.193] | 35.44 [1.395] | 4   |
| MPSC-00-20-04-XX-XX-X-RA-XX | MPS-04-RA-20-XX-PS | 45.52 [1.792]  | 39.17 [1.542] | N/A           | N/A           | 35.29 [1.389] | 40.44 [1.592] | 4   |
| MPSC-00-16-03-XX-XX-X-RA-XX | MPS-03-RA-16-XX-PS | 38.52 [1.517]  | 32.17 [1.267] | N/A           | N/A           | 28.29 [1.114] | 33.44 [1.317] | 3   |
| MPSC-00-16-04-XX-XX-X-RA-XX | MPS-04-RA-16-XX-PS | 43.52 [1.713]  | 37.17 [1.463] | N/A           | N/A           | 33.29 [1.311] | 38.44 [1.513] | 3   |
| MPSC-00-12-03-XX-XX-X-RA-XX | MPS-03-RA-12-XX-PS | 36.52 [1.438]  | 30.17 [1.188] | N/A           | N/A           | 26.29 [1.035] | 31.44 [1.238] | 2   |
| MPSC-00-12-04-XX-XX-X-RA-XX | MPS-04-RA-12-XX-PS | 41.52 [1.635]  | 35.17 [1.385] | N/A           | N/A           | 31.29 [1.232] | 36.44 [1.435] | 2   |

TABLE 3

| PLATING | POWER PIN CONTACT | POWER PIN TAIL | SIGNAL PIN CONTACT AREA | SIGNAL PIN TAIL |
|---------|-------------------|----------------|-------------------------|-----------------|
| -L      | 10μ GOLD          | MATTE TIN      | 10μ GOLD                | MATTE TIN       |
| -T      | MATTE TIN         | MATTE TIN      | 10μ GOLD                | MATTE TIN       |

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SHEET 4 OF 4