

1.  $\textcircled{C}$  REPRESENTS A CRITICAL DIMENSION.
2. BURR ALLOWANCE: .0010[0.02] MAX.
3. MINIMUM PUSHOUT FORCE: SIGNAL: .5 LB [2.22 N],  
GROUND AND COUNTERWEIGHT: 1 LB [4.45 N].
4. TRAYS ARE STANDARD PACKAGING.
5. DOES NOT APPLY TO 1 BANK.
6. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY  
STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
7. ATTACH LABEL TO EACH REEL.

DO NOT  
SCALE FROM  
THIS PRINT

QFS-XXX-XX-XX-D-DP-RA-XXX-X-XX

No OF POSITIONS  
-016, -032, -048, -064  
(PER ROW)

LEAD STYLE  
-01  
-02

PACKAGING  
BLANK: TRAY (SEE NOTES 4 & 6)  
-TR: TAPE & REEL (SEE NOTES 6 & 7)  
-FR: FULL REEL QTY TAPE & REEL  
(SEE NOTES 6 & 7)  
(-TR & -FR AVAILABLE FOR:  
-016 & -032 WITH NO OPTIONS,  
-016 & -032 WITH -PC4,  
-016 WITH -PC8)

PICK & PLACE OPTION  
-K: POLYAMIDE FILM  
(USE K-DOT-.310-.406-.005)

OPTION  
-PC4: 4 POWER PINS  
(NOT AVAILABLE WITH  
-064 POSITION)  
-PC8: 8 POWER PINS  
(NOT AVAILABLE WITH  
-064 POSITION)

-RA: RIGHT ANGLE

-DP: DIFFERENTIAL PAIRS

ROW SPECIFICATION  
-D: DOUBLE (USE QFS-26-01-D-XX-RA)

PLATING SPECIFICATION  
(SEE TABLE 7, SHEET 4)  
-SL: 10 $\mu$ " GOLD IN CONTACT AREA, MATTE TIN TAIL  
-S: 30 $\mu$ " GOLD IN CONTACT AREA, MATTE TIN TAIL  
-L: 10 $\mu$ " GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL  
-H: 30 $\mu$ " GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL

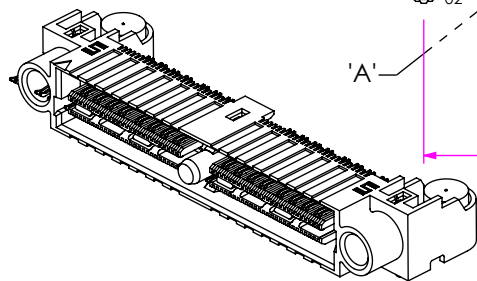
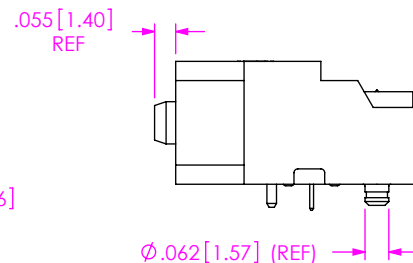
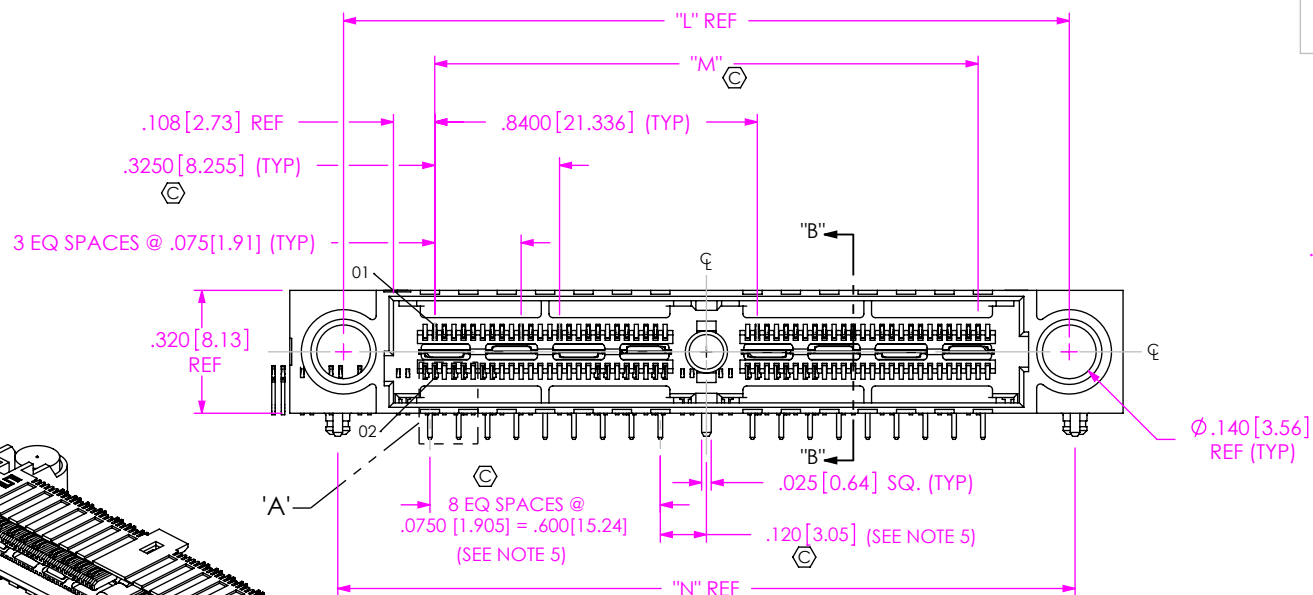
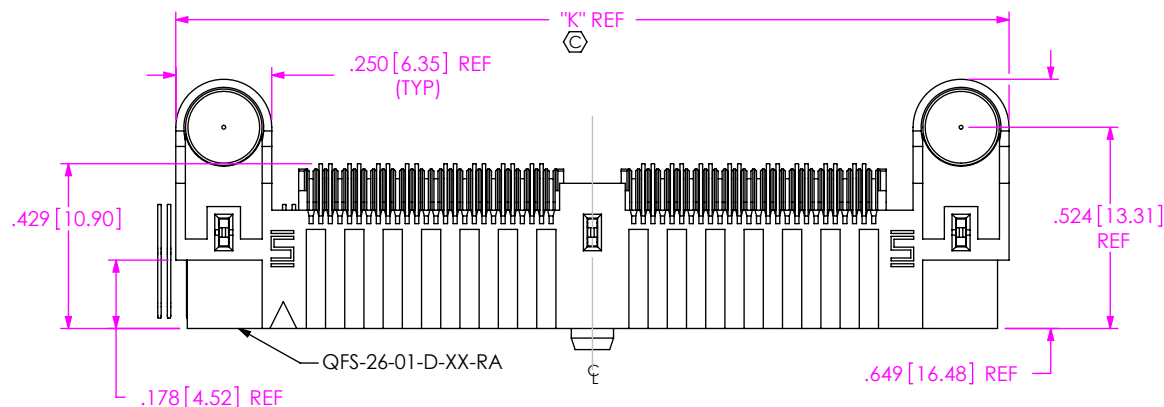


FIG 1  
(QFS-032-01-XX-D-DP-RA SHOWN)

TABLE 5

| No OF POS | "K"           | "L"           | "M"           | "N"           |
|-----------|---------------|---------------|---------------|---------------|
| -16       | 1.330 [33.78] | 1.050 [26.67] | 0.575 [14.61] | 1.080 [27.43] |
| -32       | 2.170 [55.12] | 1.890 [48.01] | 1.415 [35.94] | 1.920 [48.77] |
| -48       | 3.010 [76.45] | 2.730 [69.34] | 2.255 [57.28] | 2.760 [70.10] |
| -64       | 3.850 [97.79] | 3.570 [90.68] | 3.095 [78.61] | 3.600 [91.44] |

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES  
.XX:  $\pm .01$  [.3] 2°  
.XXX:  $\pm .005$  [.13]  
.XXXX:  $\pm .0020$  [.051]

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MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, UL94V-0, COLOR BLACK  
CONTACT & GROUND PLANE:  
PHOS BRONZE  
COUNTERWEIGHT: BRASS

SHEET SCALE: 2:1

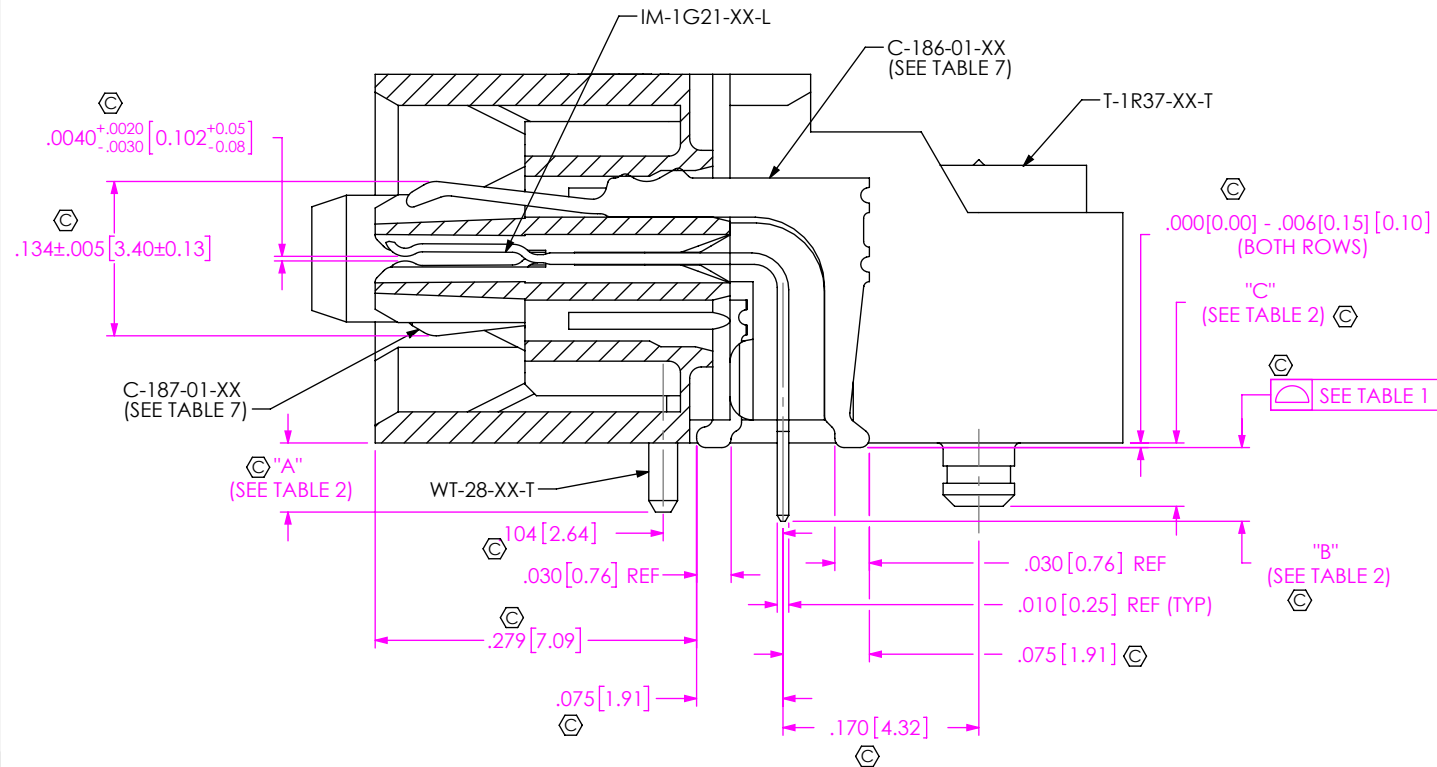
**samtec**

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

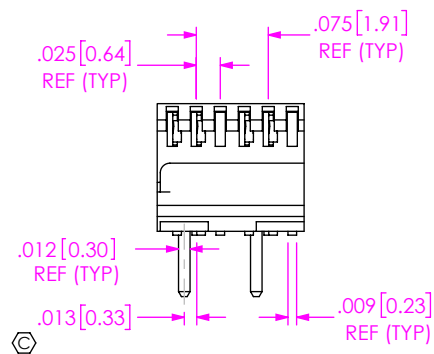
DESCRIPTION:  
.635mm RA DIFFERENTIAL PAIRS SOCKET ASSEMBLY

DWG. NO.  
QFS-XXX-XX-XX-D-DP-RA-XXX-X-XX

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SECTION "B"-"B"



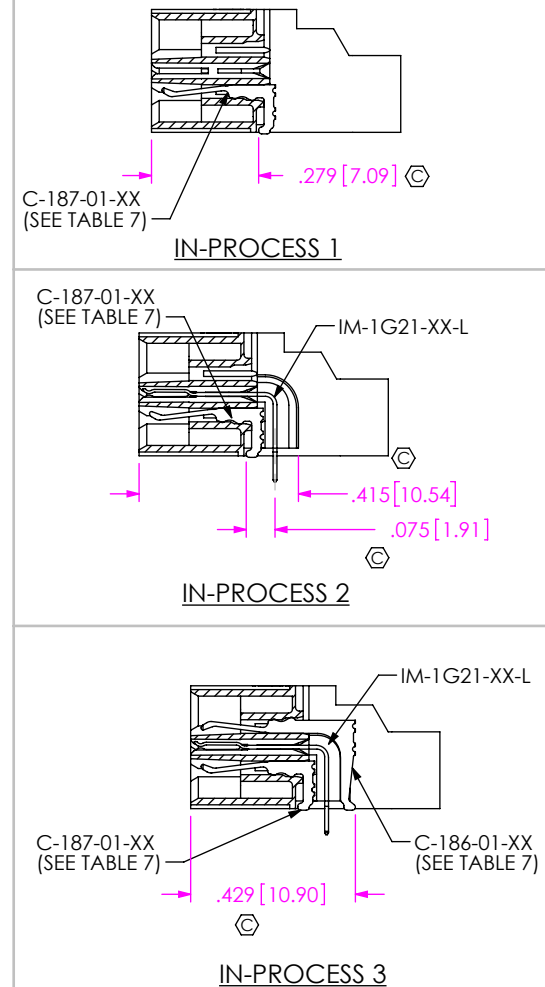
DETAIL 'A'  
SCALE 5 : 1

TABLE 1

| TABLE 1         |             |
|-----------------|-------------|
| No OF POSITIONS | COPLANARITY |
| -016 & -032     | .004[0.10]  |
| -048 & -064     | .006[0.15]  |

TABLE 2

| LEAD STYLE | "A"        | "B"        | "C"        | WT-28-XX-T |
|------------|------------|------------|------------|------------|
| -01        | .060[1.52] | .064[1.63] | .055[1.40] | WT-28-01-T |
| -02        | .091[2.31] | .095[2.41] | .086[2.18] | WT-28-02-T |



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SHEET SCALE: 6:1

**santec**

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e-Mail [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

DESCRIPTION:

### .635mm RA DIFFERENTIAL PAIRS SOCKET ASSEMBLY

DWG. NO.  
QFS-XXX-XX-XX-D-DP-RA-XXX-X-XX

|                         |              |
|-------------------------|--------------|
| BY: BRATCHER 01/02/2007 | SHEET 2 OF 4 |
|-------------------------|--------------|

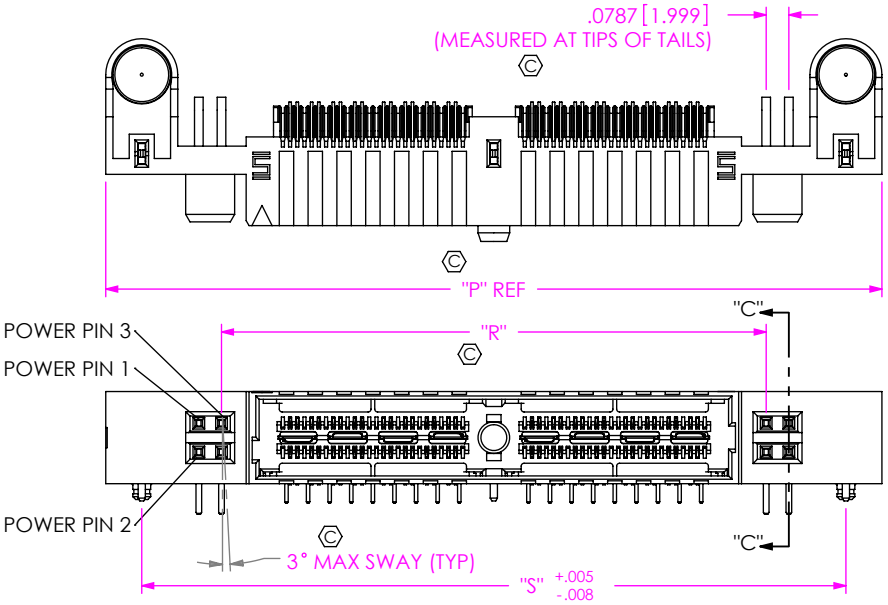
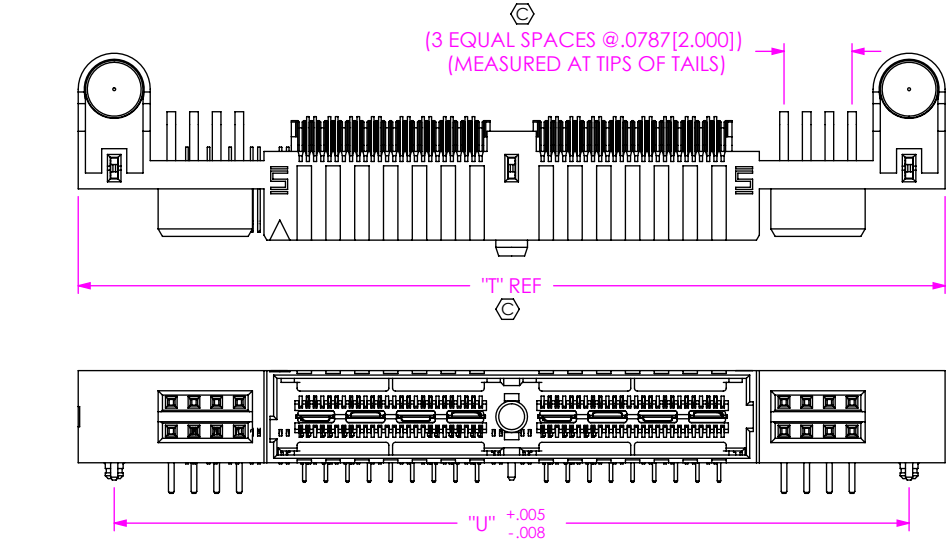


FIG 2  
(QFS-032-01-XX-D-DP-RA-PC4 SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



| TABLE 6   |                |               |                |                |                |
|-----------|----------------|---------------|----------------|----------------|----------------|
| No OF POS | "P"            | "R"           | "S"            | "T"            | "U"            |
| -16       | 1.855 [47.12]  | 1.051 [26.70] | 1.605 [40.77]  | 2.170 [55.12]  | 1.920 [48.77]  |
| -32       | 2.695 [68.45]  | 1.891 [48.03] | 2.445 [62.10]  | 3.010 [76.45]  | 2.760 [70.10]  |
| -48       | 3.535 [89.79]  | 2.731 [69.37] | 3.285 [83.44]  | 3.850 [97.79]  | 3.600 [91.44]  |
| -64       | 4.375 [111.13] | 3.571 [90.70] | 4.125 [104.78] | 4.690 [119.13] | 4.440 [112.78] |

| TABLE 3    |            |             |            |             |             |             |            |
|------------|------------|-------------|------------|-------------|-------------|-------------|------------|
| LEAD STYLE | CONTACT 1  | CONTACT 2   | "D"        | "E"         | "F"         | "G"         | "H"        |
| -01        | C-79-28-XX | C-79-29-XX  | .261[6.63] | .484[12.29] | .461[11.71] | .684[17.37] | .106[2.69] |
| -02        | C-79-20-XX | C-79-20A-XX | .287[7.29] | .510[12.95] | .487[12.37] | .710[18.03] | .132[3.35] |

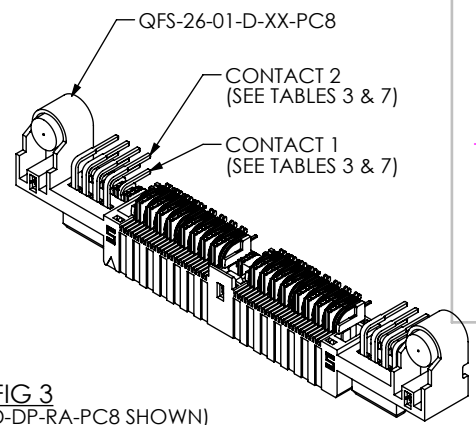
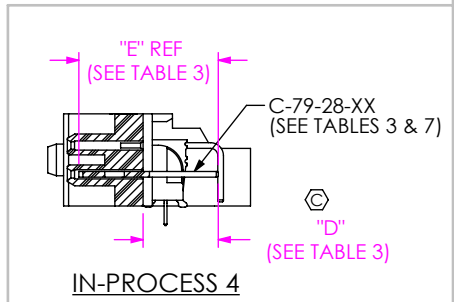
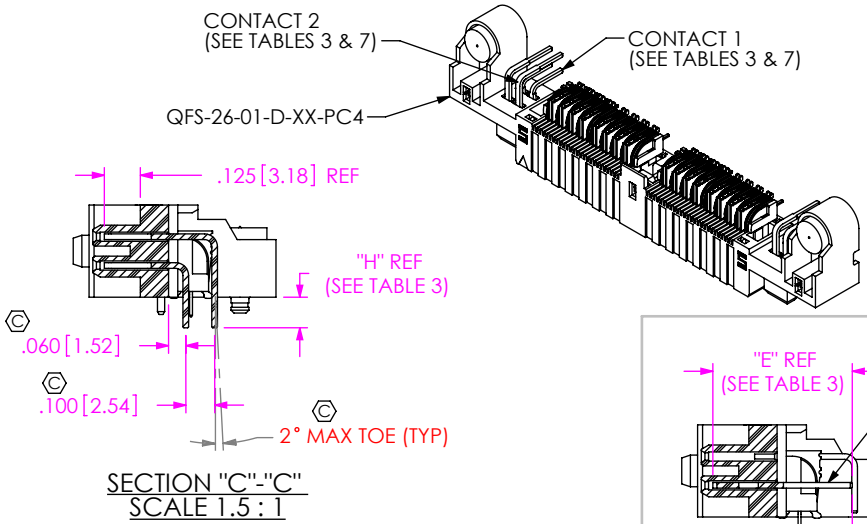
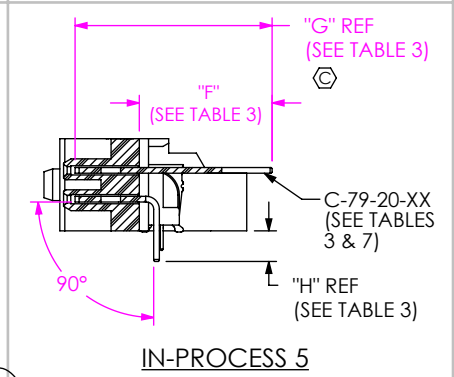


FIG 3  
(QFS-032-01-XX-D-DP-RA-PC8 SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



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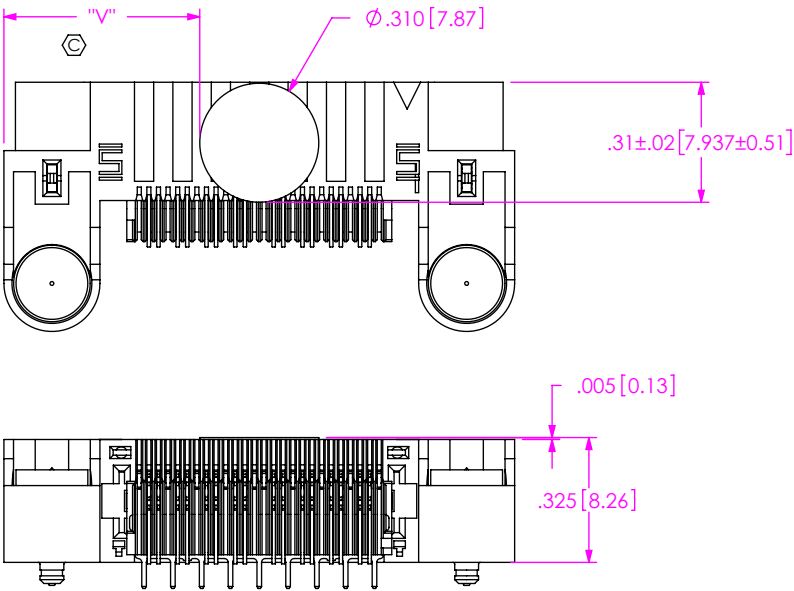
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520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
.635mm RA DIFFERENTIAL PAIRS SOCKET ASSEMBLY

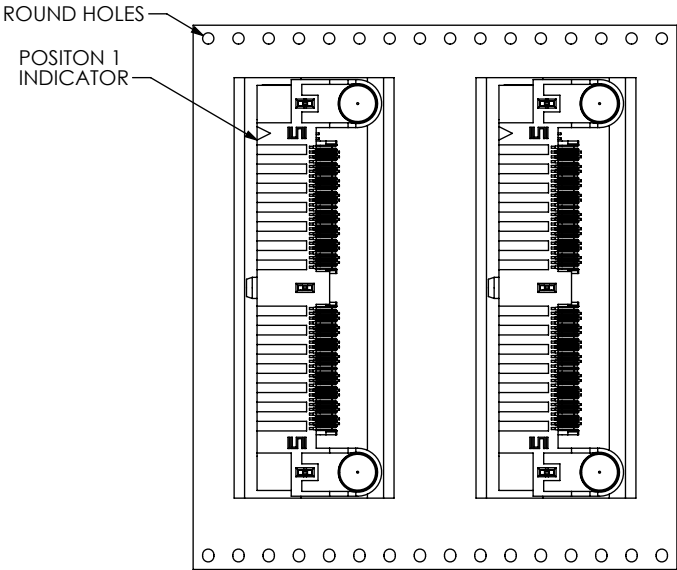
DWG. NO.  
QFS-XXX-XX-XX-D-DP-RA-XXX-X-XX

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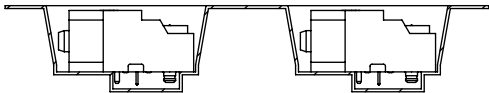


-K: POLYAMIDE FILM  
QFS-016-01-XX-D-DP-RA-K SHOWN

| TABLE 4   |                 |                   |                   |
|-----------|-----------------|-------------------|-------------------|
| No OF POS | "V" - NO OPTION | "V" - PC 4 OPTION | "V" - PC 8 OPTION |
| -16       | 0.511 [12.98]   | 0.773 [19.63]     | 0.931 [23.65]     |
| -32       | 0.931 [23.65]   | 1.193 [30.30]     | 1.351 [34.32]     |
| -48       | 1.351 [34.32]   | 1.613 [40.97]     | 1.771 [44.98]     |
| -64       | 1.771 [44.98]   | N/A               | N/A               |



USER DIRECTION OF UN-REELING  
POCKET NOT DETAILED



PACKAGING VIEW  
TAPE & REEL OPTION  
(QFS-032-01-XX-D-DP-RA-XR SHOWN)

| TABLE 7: PLATING SPECIFICATIONS |                    |                 |                                                   |
|---------------------------------|--------------------|-----------------|---------------------------------------------------|
|                                 | BOTTOM ROW CONTACT | TOP ROW CONTACT | -PCX OPTION CONTACT                               |
| -SL                             | C-186-01-SL        | C-187-01-SL     | C-79-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL      |
| -S                              | C-186-01-S         | C-187-01-S      | C-79-XX-S: 30μ" GOLD CONTACT, MATTE TIN TAIL      |
| -L                              | C-186-01-L         | C-187-01-L      | C-79-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL      |
| -H                              | C-186-01-H         | C-187-01-H      | C-79-XX-H: 50μ" GOLD CONTACT, 3μ" LIGHT GOLD TAIL |

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BY: BRATCHER 01/02/2007 SHEET 4 OF 4