

DO NOT  
SCALE FROM  
THIS PRINT

QMS-XXX-XX-XX-D-RA-XX-XXX-XX

No OF POSITIONS -  
-026, -052, -078, -104  
(PER ROW)

LEAD STYLE \_\_\_\_\_

|                 |       |
|-----------------|-------|
| -01: .062[1.57] | BOARD |
| -02: .093[2.36] | BOARD |

PACKAGING OPTION  
-TR: TAPE & REEL PACKAGING  
(-026 & -052 WITH NO OPTIONS)  
(-026 & -052 WITH -PC4)  
(-026 WITH -PC8)

— OPTION

-K: KAPTON PAD (USE K-850-650)

-PC4: 4 POWER PINS

(SEE FIG. 2, SHEET 5)  
(NOT AVAILABLE WITH -104 POS)  
(NOT AVAILABLE WITH -MG)

-PC8: 8 POWER PINS

(SEE FIG. 3, SHEET 5)  
(NOT AVAILABLE WITH -104 POS)  
(NOT AVAILABLE WITH -MG)

## GUIDE POST

-MG: METAL GUIDE POST  
(LEAVE BLANK FOR PLASTIC OR PCX.  
PLASTIC AVAILABLE AS ASO ONLY.)

-RA: RIGHT ANGLE

ROW SPECIFICATION

-D: DOUBLE (USE QMS-XXX-01-D-XX-RA)

PLATING SPECIFICATION  
(SEE TABLE 6, SHEET 4)

-SL: 10μ" GOLD IN CONTACT AREA, MATTE TIN TAIL  
-S: 30μ" GOLD IN CONTACT AREA, MATTE TIN TAIL

-L: 10μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL

-H: 30μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL

| POSITION | "L "          | "M"           | "N"           | "P"           |
|----------|---------------|---------------|---------------|---------------|
| -026     | 1.330 [33.78] | 1.050 [26.67] | .625 [15.88]  | 1.080 [27.43] |
| -052     | 2.170 [55.12] | 1.890 [48.01] | 1.465 [37.21] | 1.920 [48.77] |
| -078     | 3.010 [76.45] | 2.730 [69.34] | 2.305 [58.55] | 2.760 [70.10] |
| -104     | 3.850 [97.79] | 3.570 [90.68] | 3.145 [79.88] | 3.600 [91.44] |

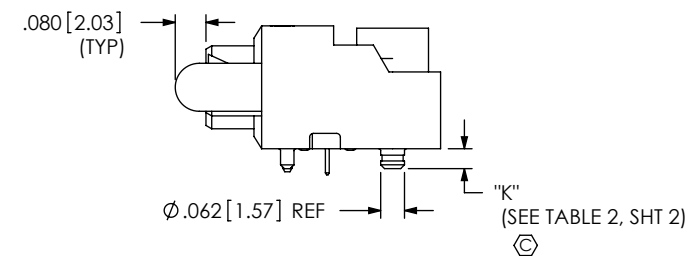
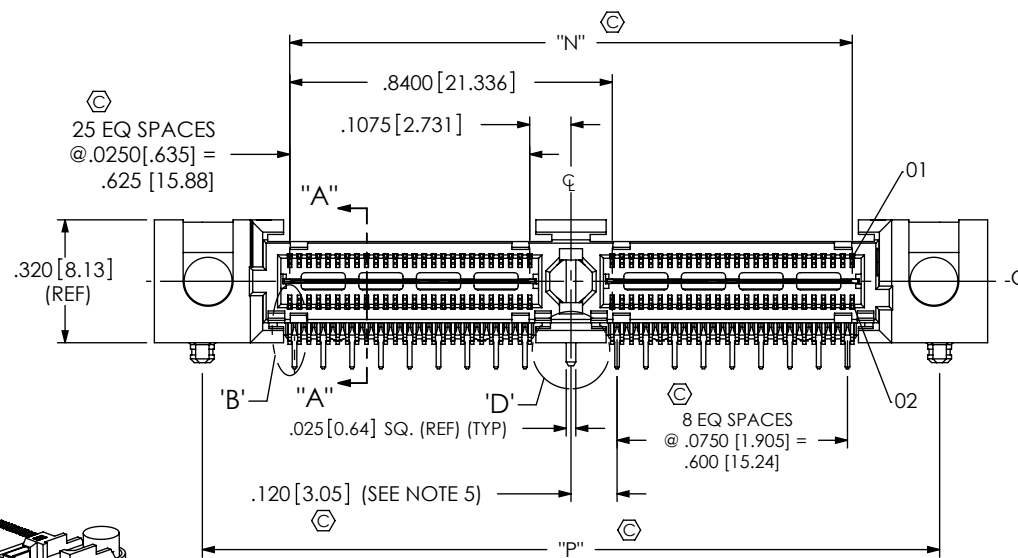
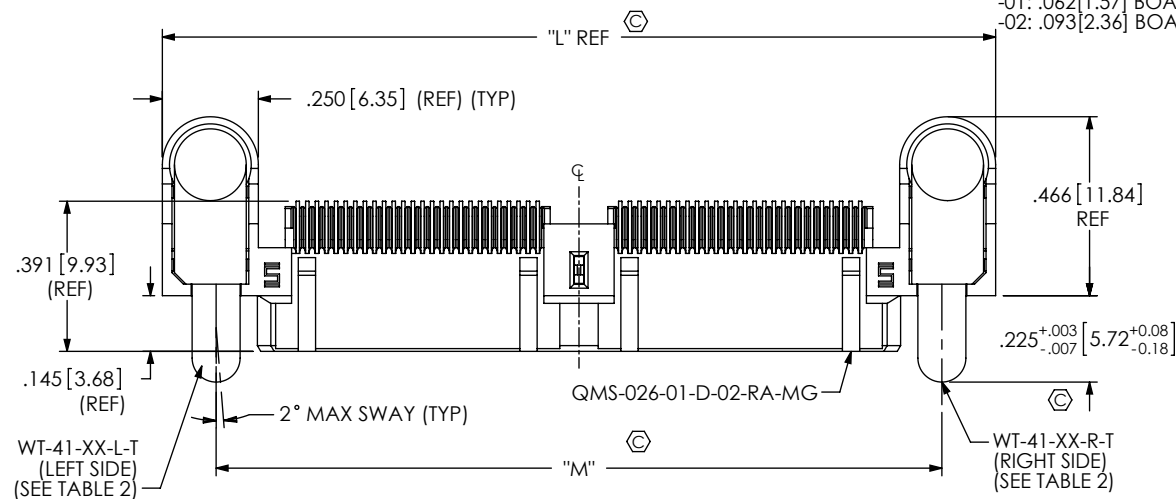


FIG. 1  
(QMS-052-XX-XX-D-RA-MG SHOWN)

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MAXIMUM BURR ALLOWANCE: .0010 [0.02]
3. MINIMUM PUSHOUT FORCE: SIGNAL: .5 LB. [2.22N]  
SHIELD/GROUND, POWER PIN, COUNTERWEIGHT  
AND METAL GUIDE POST: 1 LB. [4.45N]
4. PARTS TO BE PACKAGED IN TRAYS AS STANDARD.
5. DOES NOT APPLY TO 1 BANK.
6. WT-28-XX-T NOT PRESENT ON SINGLE BANK WITH THE -MG OPTION
7. USE -Z- DATUM ZONE ONLY FOR MEASUREMENTS.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

| DECIMALS | ANGLES |
|----------|--------|
|----------|--------|

.XX:  $\pm .01$  [.3]

.XXX:  $\pm .005$  [.13]  
.XXX:  $\pm .0020$  [.051]

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**MATERIAL:** DO NOT SCALE DRAWING

INSULATOR: LCP, COLOR BLACK

CONTACT, POWER PIN, & GROUND PLANE: PHOS BRONZE  
COUNTERWEIGHT: BRASS  
METAL GUIDE POST: ZINC

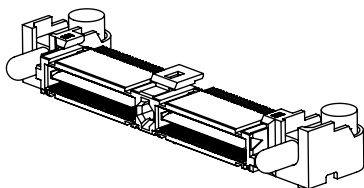
SHEET SCALE: 2:1

|              |                                           |
|--------------|-------------------------------------------|
| DESCRIPTION: | .635mm DUAL ROW RIGHT ANGLE PLUG ASSEMBLY |
|--------------|-------------------------------------------|

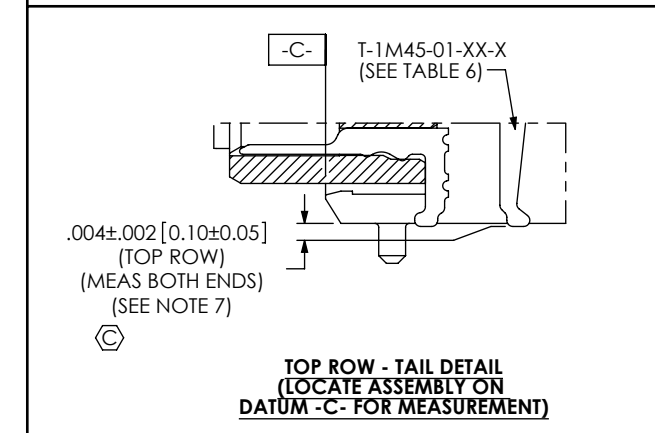
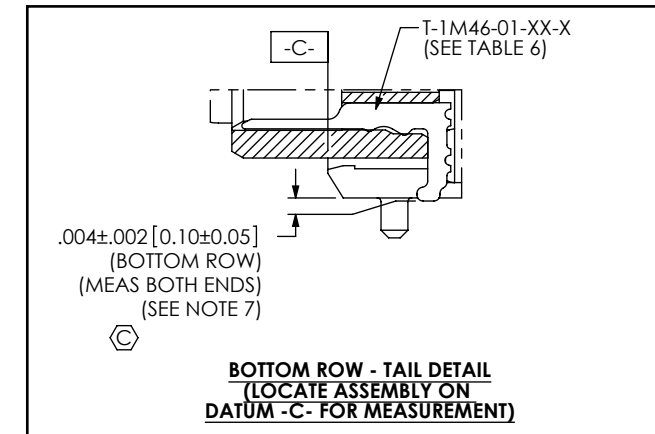
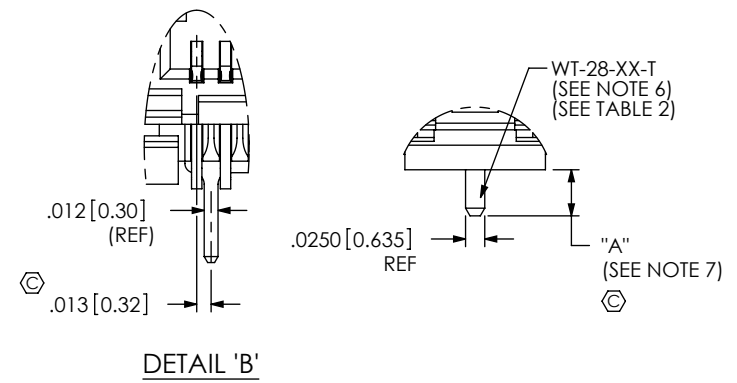
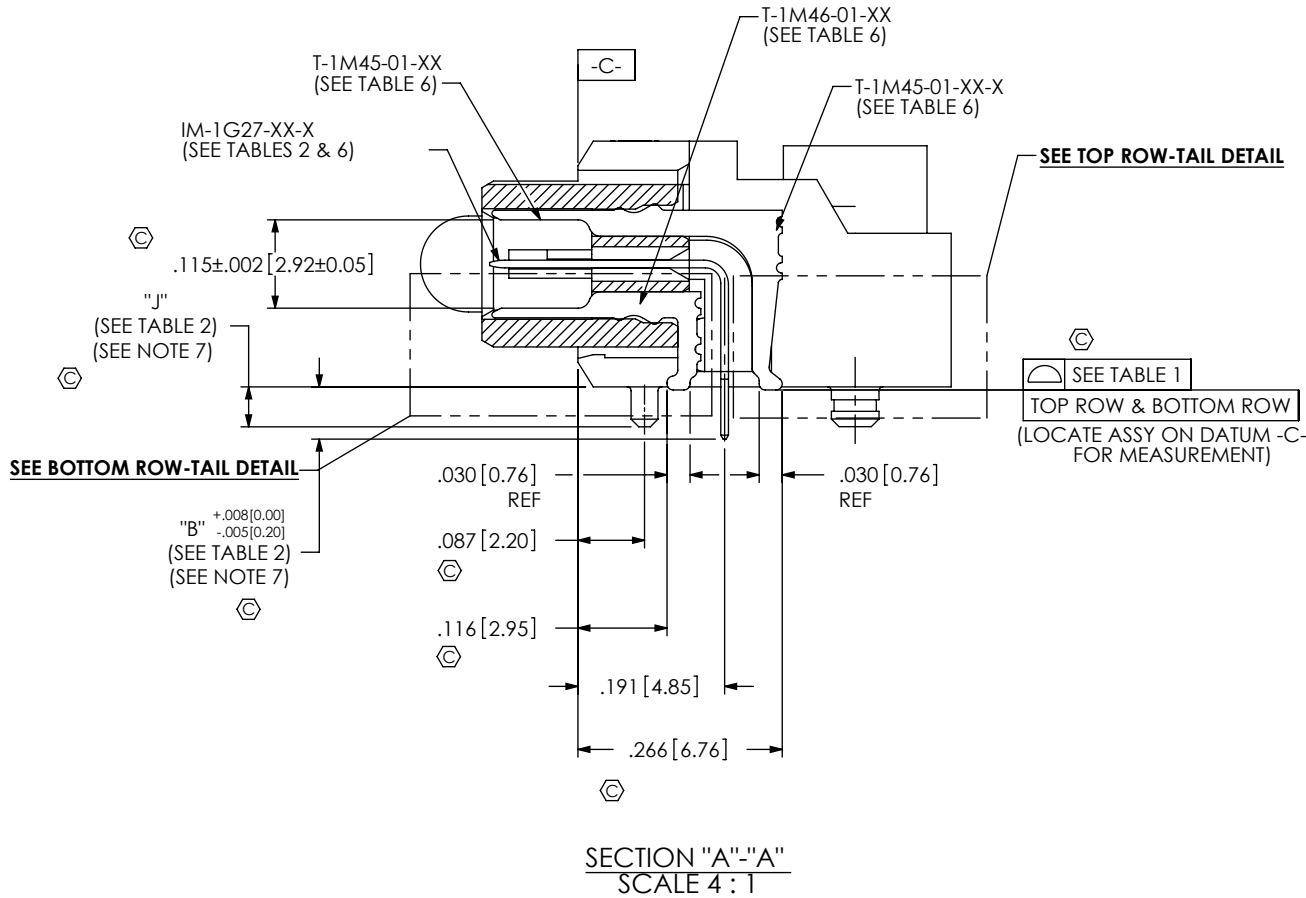
DWG. NO. QMS-XXX-XX-XX-D-RA-XX-XXX-XX

|                        |              |
|------------------------|--------------|
| BY: KNOWLDEN 8/25/2006 | SHEET 1 OF 6 |
|------------------------|--------------|

F:\DWG\MISC\MKTG\QMS-XXX-XX-XX-D-RA-XX-XXX-XX-MKT.SLDDRW

**samtec**

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



| TABLE 1         |             |                       |                       |
|-----------------|-------------|-----------------------|-----------------------|
| No OF POSITIONS | COPLANARITY | STRAIGHTNESS<br>ROW 1 | STRAIGHTNESS<br>ROW 2 |
| -026 THRU -052  | .004[.10]   | .004[.10]             | .004[.10]             |
| -078 THRU -104  | .006[.15]   | .006[.15]             | .006[.15]             |

| TABLE 2    |             |             |             |             |             |            |              |             |              |
|------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|-------------|--------------|
| LEAD STYLE | "A"         | "B"         | "C"         | "J"         | "K"         | WT-28-XX-T | IM-1G27-XX-L | T-1R37-XX-T | WT-41-XX-X-T |
| -01        | .060 [1.52] | .068 [1.73] | .055 [1.40] | .052 [1.32] | .052 [1.32] | WT-28-01-T | IM-1G27-01-L | T-1R37-01-T | WT-41-01-X-T |
| -02        | .091 [2.31] | .099 [2.51] | .086 [2.18] | .083 [2.11] | .083 [2.11] | WT-28-02-T | IM-1G27-02-L | T-1R37-02-T | WT-41-02-X-T |

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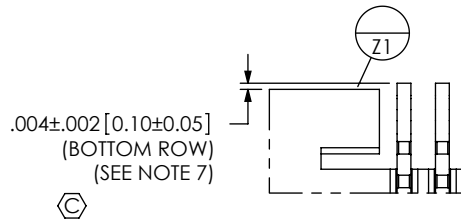
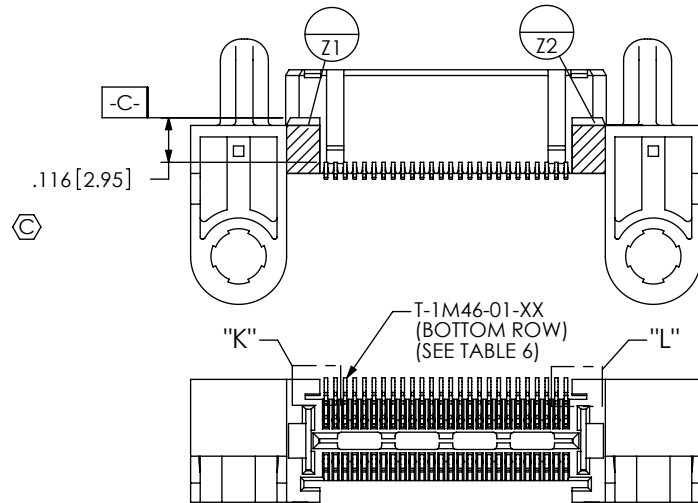
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DESCRIPTION:  
.635mm DUAL ROW RIGHT ANGLE PLUG ASSEMBLY  
DWG. NO.

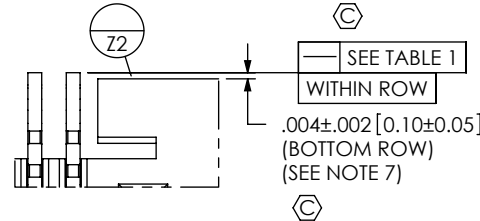
QMS-XXX-XX-XX-D-RA-XX-XXX-XX

BY: KNOWLDEN 8/25/2006 SHEET 2 OF 6

**INSPECTION VIEW 1**  
(FILL BOTTOM ROW)

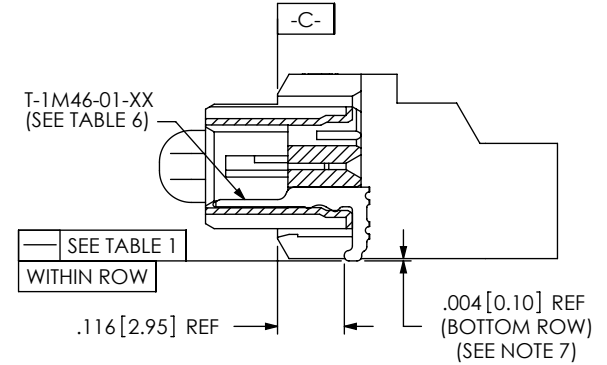
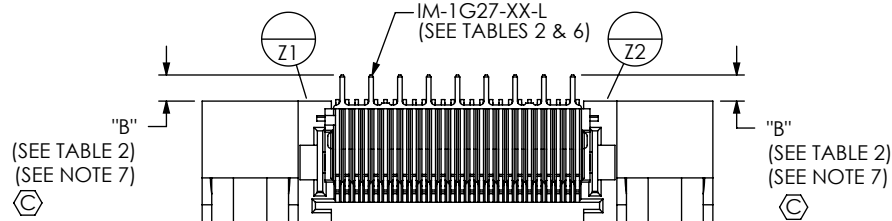
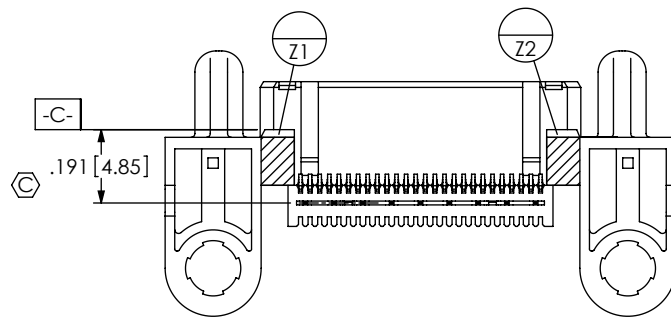


**DETAIL "K"**  
SCALE 8 : 1

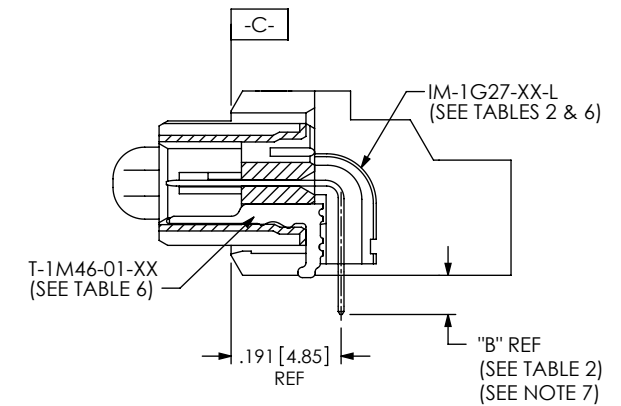


**DETAIL "L"**  
SCALE 8 : 1

**INSPECTION VIEW 2**  
(FILL IM-1G27)



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



**IN-PROCESS 2**  
(FILL IM-1G27)  
(SEE INSPECTION VIEW 2 FOR ORIENTATION AND CPC'S)

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DESCRIPTION:  
.635mm DUAL ROW RIGHT ANGLE PLUG ASSEMBLY

DWG. NO.  
**QMS-XXX-XX-XX-D-RA-XX-XXX-XX**

BY: KNOWLDEN 8/25/2006 SHEET 3 OF 6

**INSPECTION VIEW 3**  
(FILL TOP ROW)

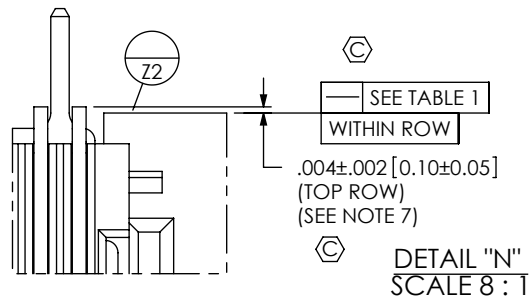
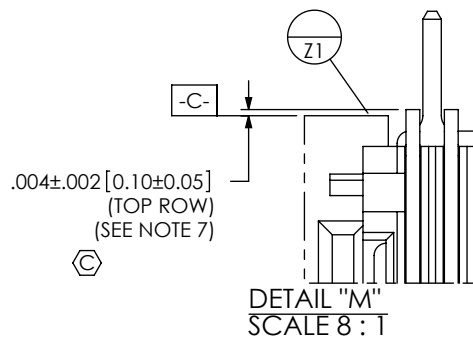
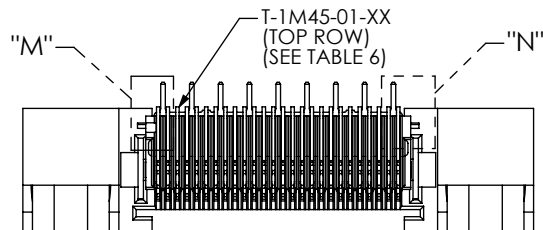
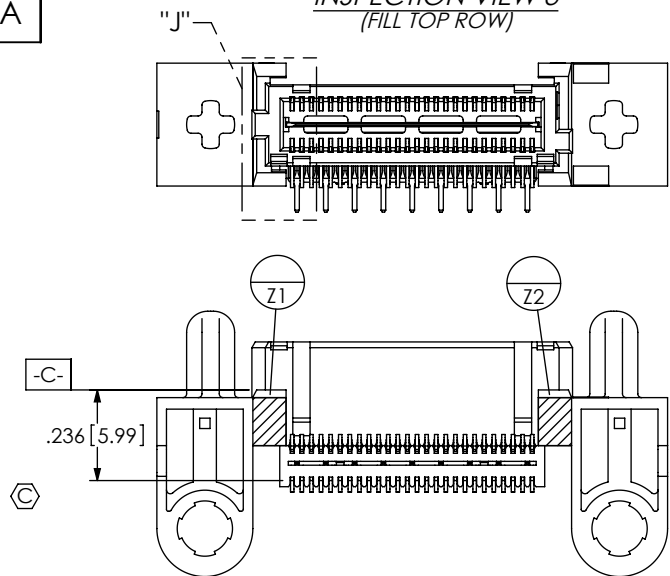
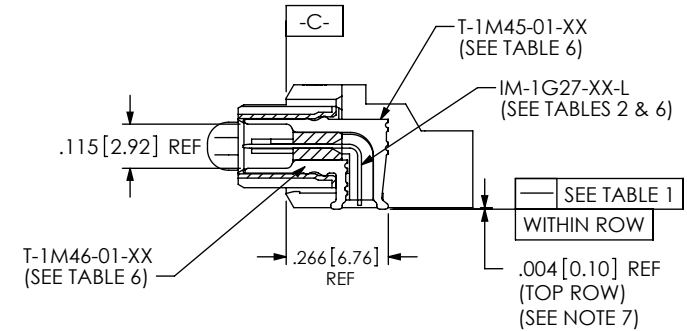


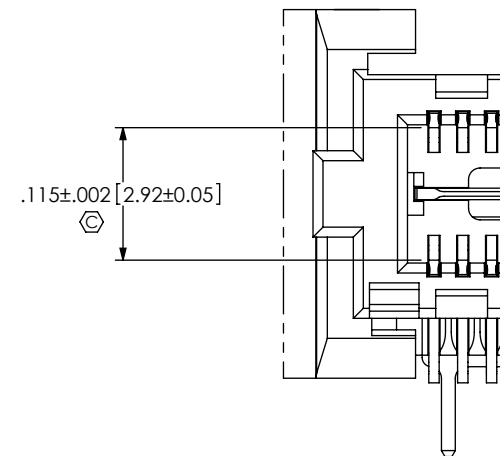
TABLE 6: PLATING SPECIFICATIONS

|     | CONTACT                                         | CONTACT                                         | GROUND PLANE                                    | PCX CONTACTS                                    |
|-----|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| -SL | T-1M45-01-SL: 10μ" GOLD CONTACT, MATTE TIN TAIL | T-1M46-01-SL: 10μ" GOLD CONTACT, MATTE TIN TAIL | IM-1G27-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL | T-1S69-XX-SL: 10μ" GOLD CONTACT, MATTE TIN TAIL |
| -S  | T-1M45-01-S: 30μ" GOLD CONTACT, MATTE TIN TAIL  | T-1M46-01-S: 30μ" GOLD CONTACT, MATTE TIN TAIL  | IM-1G27-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL | T-1S69-XX-S: 30μ" GOLD CONTACT, MATTE TIN TAIL  |
| -L  | T-1M45-01-L: 10μ" GOLD CONTACT, 3μ" GOLD TAIL   | T-1M46-01-L: 10μ" GOLD CONTACT, 3μ" GOLD TAIL   | IM-1G27-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL | T-1S69-XX-SL: 10μ" GOLD CONTACT, MATTE TIN TAIL |
| -H  | T-1M45-01-H: 30μ" GOLD CONTACT, 3μ" GOLD TAIL   | T-1M46-01-H: 30μ" GOLD CONTACT, 3μ" GOLD TAIL   | IM-1G27-XX-L: 10μ" GOLD CONTACT, MATTE TIN TAIL | T-1S69-XX-S: 30μ" GOLD CONTACT, MATTE TIN TAIL  |



**IN-PROCESS 3**  
(FILL TOP ROW)

(SEE INSPECTION VIEW 3 FOR ORIENTATION AND CPC'S)



SCALE 6:1  
DETAIL "J"

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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
.635mm DUAL ROW RIGHT ANGLE PLUG ASSEMBLY

DWG. NO.  
QMS-XXX-XX-XX-D-RA-XX-XXX-XX

BY: KNOWLDEN 8/25/2006 SHEET 4 OF 6

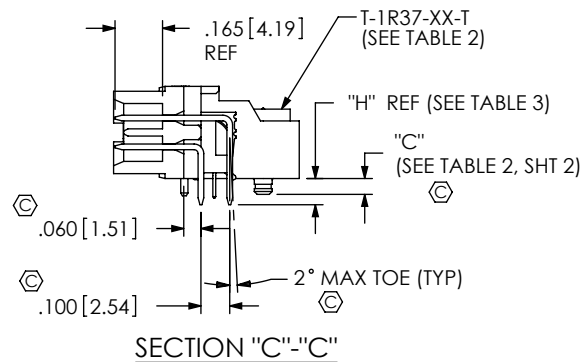
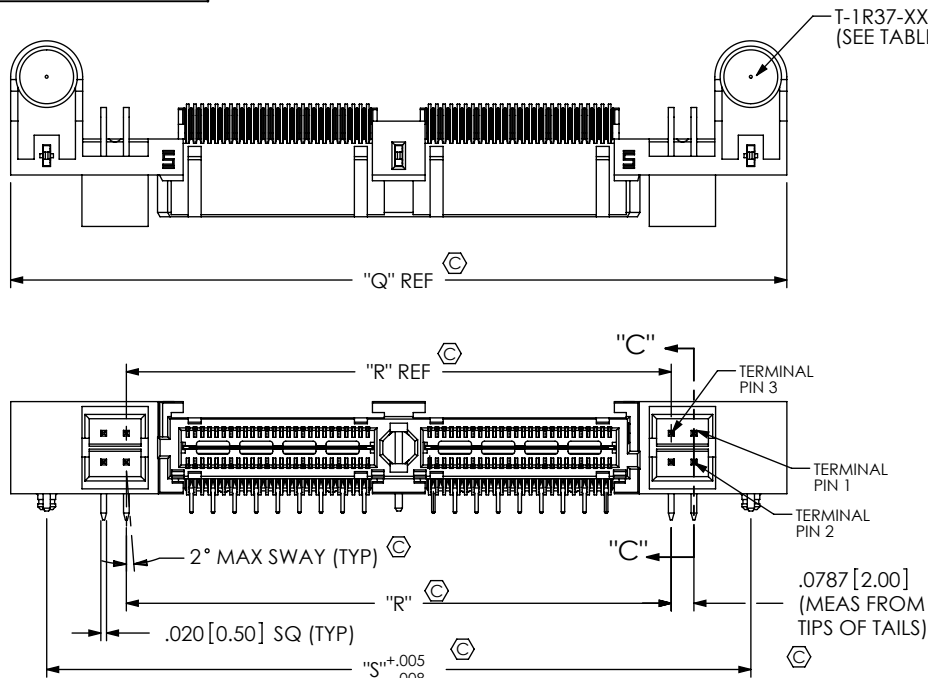
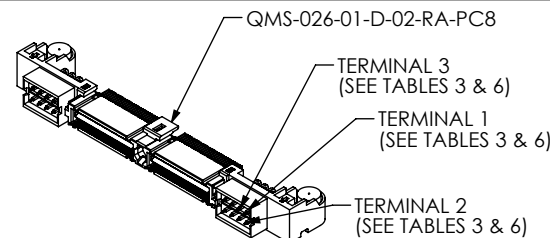
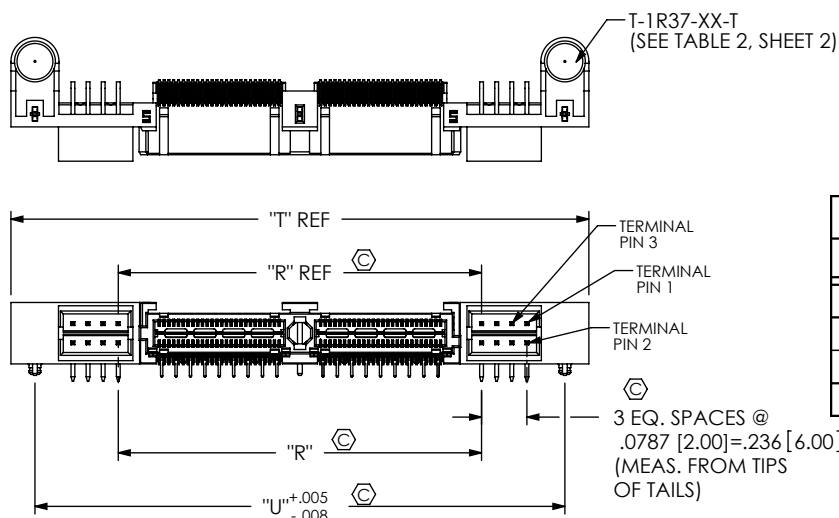
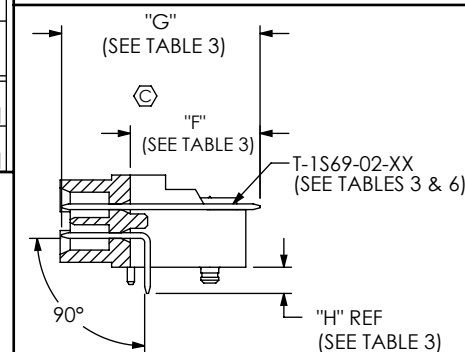
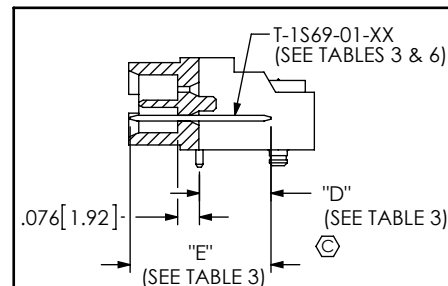
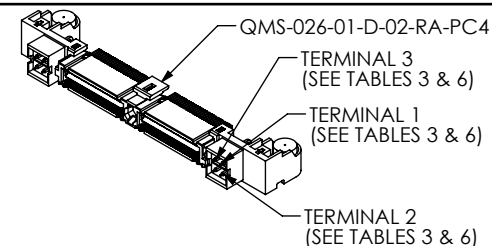


FIG 2  
(QMS-052-XX-XX-D-RA-PC4 SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

| TABLE 3    |              |              |                |                 |                 |                 |                |
|------------|--------------|--------------|----------------|-----------------|-----------------|-----------------|----------------|
| LEAD STYLE | TERMINAL 1   | TERMINAL 2   | "D"            | "E"             | "F"             | "G"             | "H"            |
| -01        | T-1S69-01-XX | T-1S69-02-XX | .248<br>[6.30] | .489<br>[12.42] | .450<br>[11.43] | .689<br>[17.50] | .091<br>[2.31] |
| -02        | T-1S69-03-XX | T-1S69-04-XX | .279<br>[7.09] | .520<br>[13.21] | .481<br>[12.22] | .720<br>[18.29] | .122<br>[3.10] |



| TABLE 7  |                |               |                |                |                |               |               |
|----------|----------------|---------------|----------------|----------------|----------------|---------------|---------------|
| POSITION | "Q"            | "R"           | "S"            | "T"            | "U"            | "V"           | "W"           |
| -026     | 1.855 [47.12]  | 1.052 [26.72] | 1.605 [40.77]  | 2.170 [55.12]  | 1.920 [48.77]  | 1.050 [26.67] | 1.080 [27.43] |
| -052     | 2.695 [68.45]  | 1.892 [48.06] | 2.445 [62.10]  | 3.010 [76.45]  | 2.760 [70.10]  | 1.890 [48.01] | 1.920 [48.77] |
| -078     | 3.535 [89.79]  | 2.732 [69.39] | 3.285 [83.44]  | 3.850 [97.79]  | 3.600 [91.44]  | 2.730 [69.34] | 2.760 [70.10] |
| -104     | 4.375 [111.13] | 3.572 [90.73] | 4.125 [104.78] | 4.690 [119.13] | 4.440 [112.78] | 3.570 [90.68] | 3.600 [91.44] |

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 .635mm DUAL ROW RIGHT ANGLE PLUG ASSEMBLY

DWG. NO.  
 QMS-XXX-XX-XX-D-RA-XX-XXX-XX

BY: KNOWLDEN 8/25/2006 SHEET 5 OF 6

REVISION AA

T-1R37-XX-T  
(SEE TABLE 2, SHEET 2)

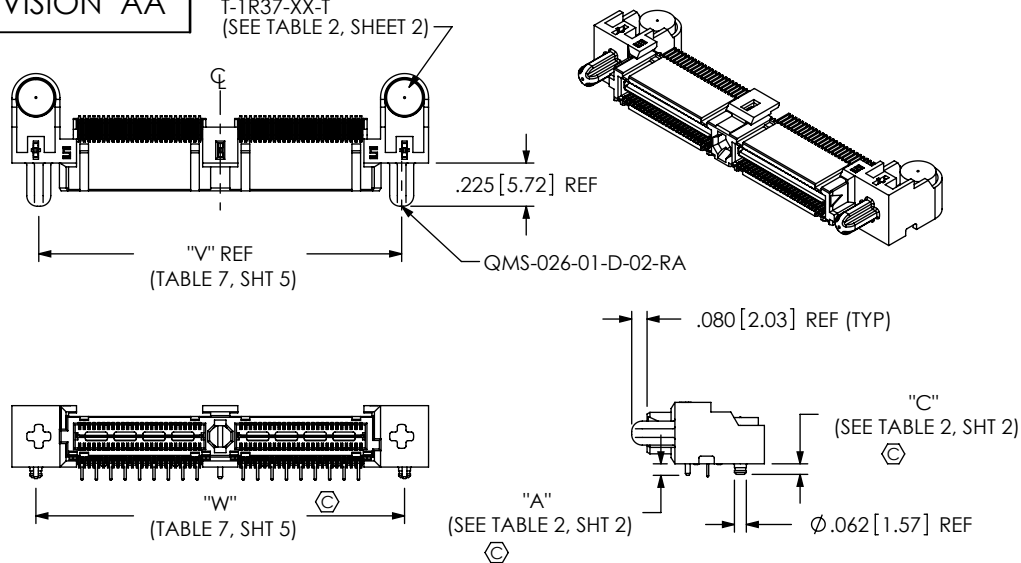
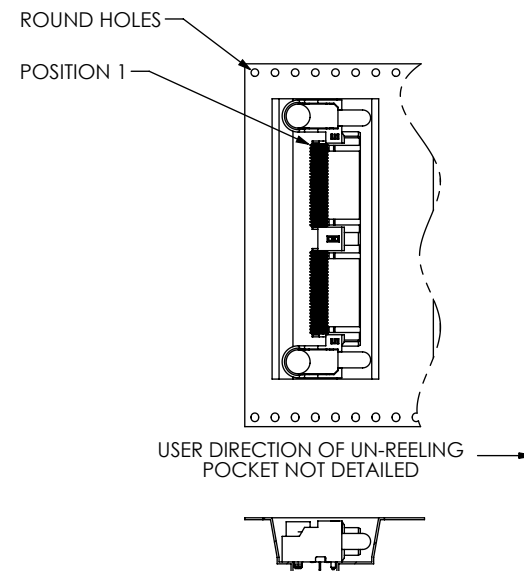
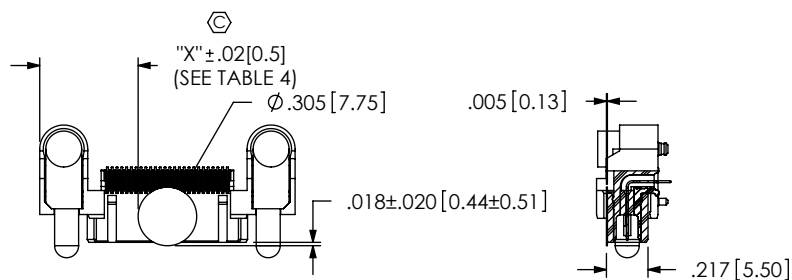


FIG 4  
(QMS-052-01-XX-D-RA SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
**AVAILABLE AS ASO ONLY**

PACKAGING VIEW  
-TR: TAPE & REEL OPTION  
(QMS-052-01-XX-D-RA-MG-TR SHOWN)

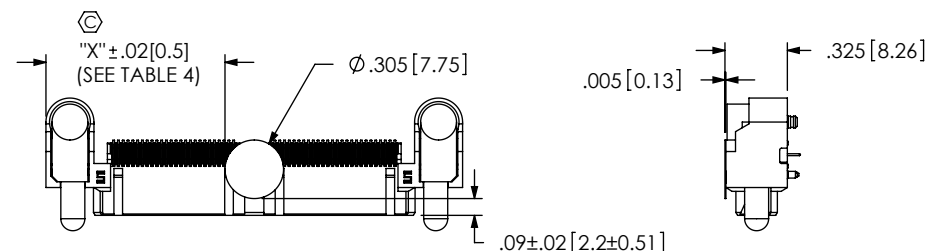


-K: KAPTON PAD  
QMS-026-01-XX-D-RA-MG-K SHOWN  
(USE K-850-650)  
(FOR 1 AND 3 BANKS ONLY)



| TABLE 4 |                   |               |               |
|---------|-------------------|---------------|---------------|
|         | STANDARD<br>& -MG | -PC4          | -PC8          |
| POS.    | "X"               |               |               |
| -026    | 0.513 [13.03]     | 0.776 [19.71] | 0.934 [23.71] |
| -052    | 0.933 [23.70]     | 1.196 [30.38] | 1.354 [34.38] |
| -078    | 1.353 [34.37]     | 1.616 [41.05] | 1.774 [45.05] |
| -104    | 1.773 [45.03]     | 2.036 [51.71] | 2.194 [55.71] |

-K: KAPTON PAD  
QMS-052-01-XX-D-RA-MG-K SHOWN  
(USE K-850-650)  
(FOR 2 AND 4 BANKS ONLY)



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QMS-XXX-XX-XX-D-RA-XX-XXX-XX

BY: KNOWLDEN 8/25/2006 SHEET 6 OF 6