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| TABLE 1 | | | | | | | MATED HEIGHT WITH QSH-01 |
|---------|--------------|--------------|----------------|------------------|--------------|-------------|--------------------------|
| STYLE | "A" | "B" | BODY (-LC) | BODY (-A) | GROUND PLANE | TERMINAL | |
| -01 | .1680[4.267] | .1600[4.064] | QTH-30-01-D-XX | QTH-30-01-D-XX-A | T-1G1-01-X | T-1S39-01-X | .197[5.00] REF |
| -02 | .2861[7.267] | .2781[7.064] | QTH-30-02-D-XX | QTH-30-02-D-XX-A | T-1G1-02-X | T-1S59-02-X | .315[8.00] REF |

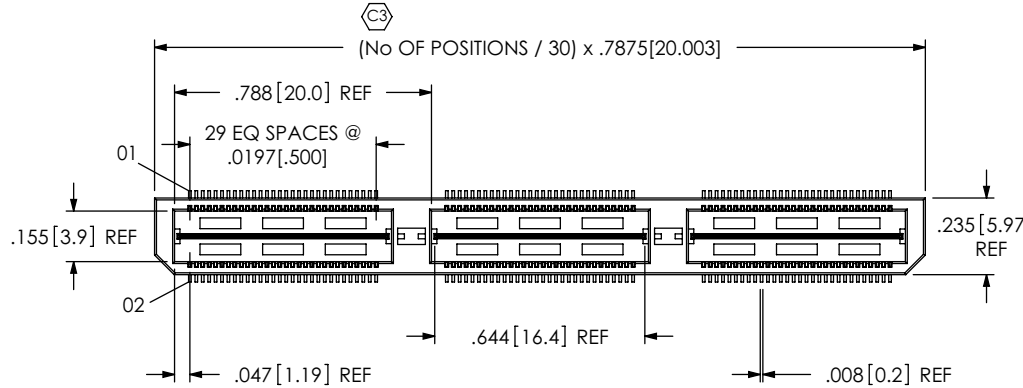
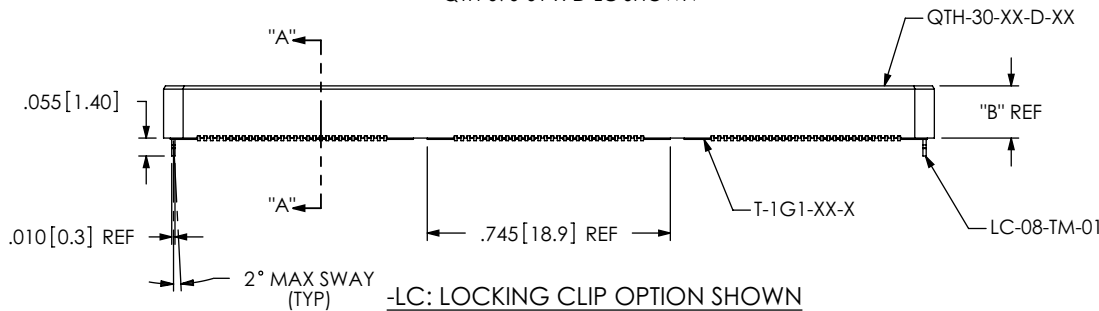
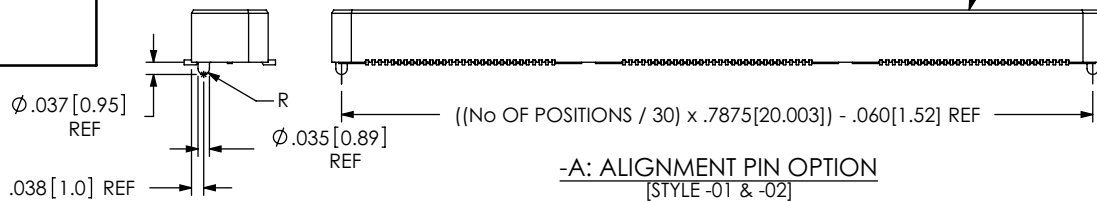


FIG. 1
QTH-090-01-X-D-LC SHOWN



-LC: LOCKING CLIP OPTION SHOWN



-A: ALIGNMENT PIN OPTION
[STYLE -01 & -02]

QTH-XXX-XX-X-D-XXX

No OF POSITIONS
-030, -060, -090,
* -120, *-150
(PER ROW)
* (SEE NOTE 11)

LEAD STYLE

- 01: .1680[4.267]
- 02: .2861[7.264]
- 03: .4043[10.269]
- 04: .6001[15.246]
- 05: .7181[18.240]
- 06: .8361[21.237]
- 07: .9542[24.237]
- 08: 1.1511[29.238]
- 09: .5224[13.269]
- 10: .5618[14.269]

□ = SEE TABLE 4

PLATING SPECIFICATION

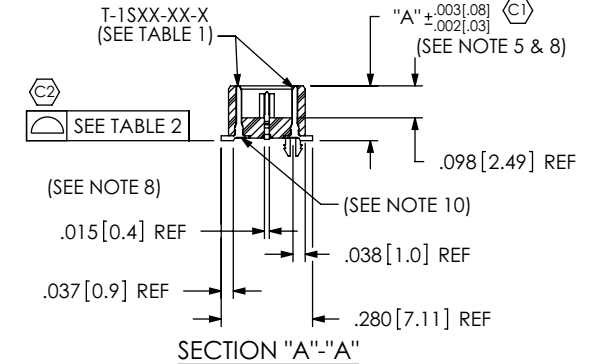
- F: FLASH SELECTIVE GOLD WITH MATTE TIN TAILS
(USE T-1SXX-XX-F & T-1GXX-XX-F)
(SEE NOTE 7)
- L: LIGHT SELECTIVE GOLD WITH MATTE TIN TAILS
(USE T-1SXX-XX-L & T-1GXX-XX-L)
- H: HEAVY GOLD WITH FLASH GOLD TAILS
(USE T-1SXX-XX-H & T-1GXX-XX-G)
- C: ELECTRO-POLISHED SELECTIVE
(USE T-1SXX-XX-C, T-1GXX-XX-L)

OPTION

- LC: LOCKING CLIPS
(USE LC-08-TM-01)
- A: ALIGNMENT PINS
(USE QTH-30-XX-D-XX-A FOR -01 & -02)
(FOR -03 THRU -10 SEE TABLE 4)
- K: POLYIMIDE FILM (USE K-DOT-.276-.375-.005)
(AVAILABLE ON -01 THRU -04, -09 & -10 ONLY)
(SEE FIG. 2, SHEET 2)
- TR: TAPE & REEL (90 POS MAX)
(60 POS MAX W/ -GP OPTION)
(N/A ON -05 THRU -08)
- GP: GUIDE POSTS
(AVAILABLE ON -01 & -02 ONLY)
(USE QTH-30-XX-D-XX-X-GP)
(SEE FIG. 7, SHEET 4)
- FL: FRICTION LOCKS (SEE FIG. 8, SHEET 4)
(ONLY AVAILABLE ON -01 & -02)
(NOT AVAILABLE WITH -GP)
- RT1: RETENTION OPTION (SEE FIG. 9, SHEET 5)
(ONLY AVAILABLE ON -01 LEAD STYLE)
(MUST USE -A OPTION)
(USE QTH-30-01-D-XX-A-RT1 & T-1R36-01-F)
(NOT AVAILABLE WITH -LC, -GP, OR -FL)

ROW SPECIFICATION

- D: DOUBLE (USE QTH-30-XX-D-XX & QTHH-30-XX-D-XX)



SECTION "A"-"A"

| TABLE 2 | |
|-----------------|----------------------------|
| No OF POSITIONS | COPLANARITY (INCLUDING GP) |
| -030 THRU -060 | .004 [.10] |
| -090 THRU -150 | .006 [.15] |

NOTES:

1. (C) REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: 6 OZ FOR -01 & -02, 8 OZ FOR -03 THRU -10.
3. MINIMUM GROUND PLANE RETENTION: 1 LB.
4. PARTS TO BE MOLDED TO POSITION.
5. MAXIMUM VARIANCE OF .002[.05]. APPLIES TO SIGNAL OR GROUNDS INDEPENDENT OF THE GROUND OR SIGNAL PINS RESPECTIVELY.
6. LEAD STYLES -03 THRU -10: TOP BODY (QTH) CANNOT HAVE -A OPTION.
7. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
8. GROUND PLANE PRESS HEIGHT MUST BE .003 [.07] LESS THAN THE MAXIMUM HEIGHT OR .002[.03] GREATER THAN THE MINIMUM HEIGHT OF SIGNAL PIN.
9. T-1R36 RETENTION TO BODY TO BE 1.0 LBF.
10. CUT OFF BURR NOT TO EXCEED .003 [.07] IN ANY DIRECTION, BURR PLUS TAB HEIGHT NOT TO EXCEED .006 [.15].
11. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01[.3] 2°
.XXX: ±.005[.13]
.XXXX: ±.0020[.051]

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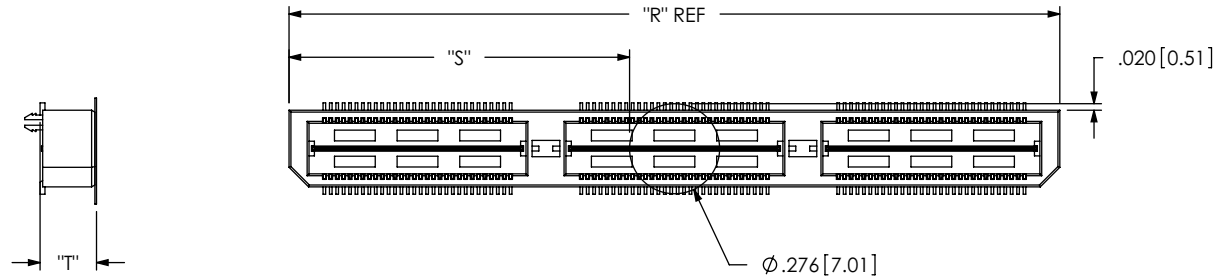
INSULATOR: LCP, COLOR: BLACK
TERMINAL & GROUND PLANE: PHOS BRONZE

DESCRIPTION: .5mm DOUBLE ROW HS TERMINAL ASSEMBLY

DWG. NO. QTH-XXX-XX-X-D-XXX

BY: DEAN P 5/27/1999 SHEET 1 OF 5

NOTE: "R" = (No OF POSITIONS / 30) x .7875[20.003]
 WITH -RT1 OPTION: "R" = ((No OF POSITIONS / 30) x .7875[20.003] + .6505[16.522] REF
 WITH -GP OPTION: "R" = ((No OF POSITIONS / 30) x .7875[20.003] + .5175[13.145] REF
 "S" = (("R" - .276[7.01]) / 2) ±.020[.51]



| TABLE 3 | |
|---------|-------------|
| STYLE | "T" |
| -01 | .173[4.39] |
| -02 | .291[7.39] |
| -03 | .409[10.39] |
| -04 | .605[15.37] |
| -09 | .527[13.39] |
| -10 | .566[14.39] |

FIG. 2
 -K: POLYIMIDE FILM PAD OPTION
 [USE K-DOT-.276-.375-.005]

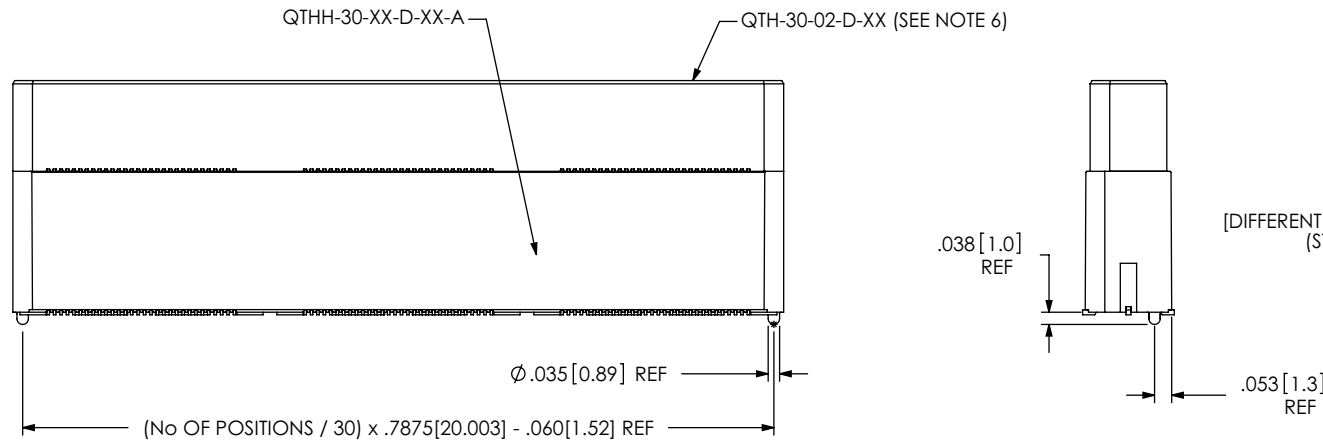


FIG. 3
 -A: ALIGNMENT PIN OPTION
 (QTH-090-05-X-D-A SHOWN)
 [DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1]
 (STYLES -03 THRU -09, SEE TABLE 4)

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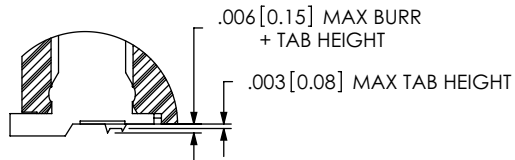


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 .5mm DOUBLE ROW HS TERMINAL ASSEMBLY

DWG. NO.
 QTH-XXX-XX-X-D-XXX

BY: DEAN P 5/27/1999 SHEET 2 OF 5



DETAIL 'H'
SCALE 8:1

| TABLE 4 | | | | | | | | |
|---------|------------|--------------------|--------------|-------------|-----------------------|----------------------------------|-------------------------|--------------------------|
| STYLE | SEE FIGURE | "C" OVERALL HEIGHT | GROUND PLANE | TERMINAL | TOP BODY (SEE NOTE 6) | BOTTOM SPACER BODY (-LC OR NONE) | BOTTOM SPACER BODY (-A) | MATED HEIGHT WITH QSH-01 |
| -03 | 4 | .4043 [10.269] | T-1G1-03-X | T-1S60-03-X | QTH-30-02-D-XX | QTHH-30-01-D-XX | QTHH-30-01-D-XX-A | .433 [11.00] REF |
| -04 | 4 | .6001 [15.246] | T-1G1-04-X | T-1S60-04-X | QTH-30-02-D-XX | QTHH-30-01-D-XX | QTHH-30-01-D-XX-A | .630 [16.00] REF |
| -05 | 5 | .7181 [18.240] | T-1G1-05-X | T-1S60-05-X | QTH-30-02-D-XX | QTHH-30-03-D-XX | QTHH-30-03-D-XX-A | .748 [19.00] REF |
| -06 | 5 | .8361 [21.237] | T-1G1-06-X | T-1S60-06-X | QTH-30-02-D-XX | QTHH-30-03-D-XX | QTHH-30-03-D-XX-A | .866 [22.00] REF |
| -07 | 6 | .9542 [24.237] | T-1G17-01-X | T-1S61-21-X | QTH-30-02-D-XX | QTHH-30-04-D-XX | QTHH-30-04-D-XX-A | .984 [25.00] REF |
| -08 | 6 | 1.1511 [29.238] | T-1G17-02-X | T-1S61-22-X | QTH-30-02-D-XX | QTHH-30-04-D-XX | QTHH-30-04-D-XX-A | 1.181 [30.00] REF |
| -09 | 4 | .5224 [13.269] | T-1G1-09-X | T-1S60-09-X | QTH-30-02-D-XX | QTHH-30-01-D-XX | QTHH-30-01-D-XX-A | .551 [14.00] REF |
| -10 | 4 | .5618 [14.269] | T-1G1-10-X | T-1S60-10-X | QTH-30-02-D-XX | QTHH-30-01-D-XX | QTHH-30-01-D-XX-A | .591 [15.00] REF |

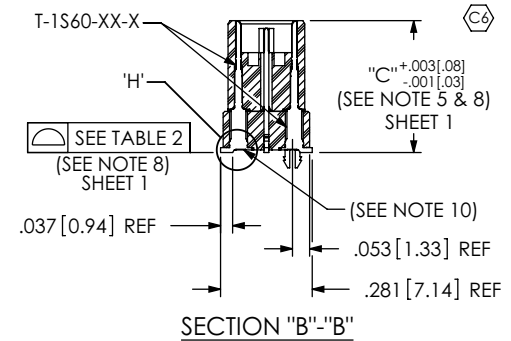
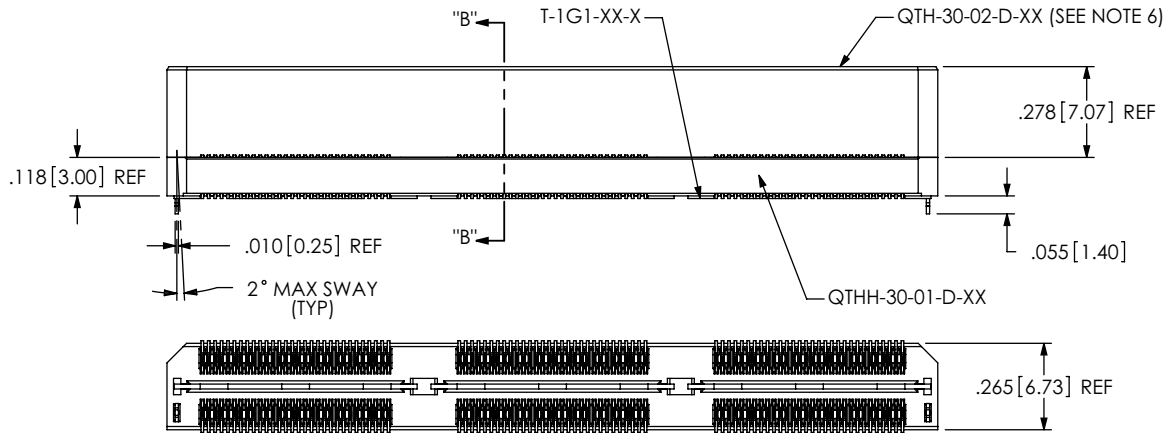


FIG. 4
(QTH-090-03-X-D-LC SHOWN)
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1]

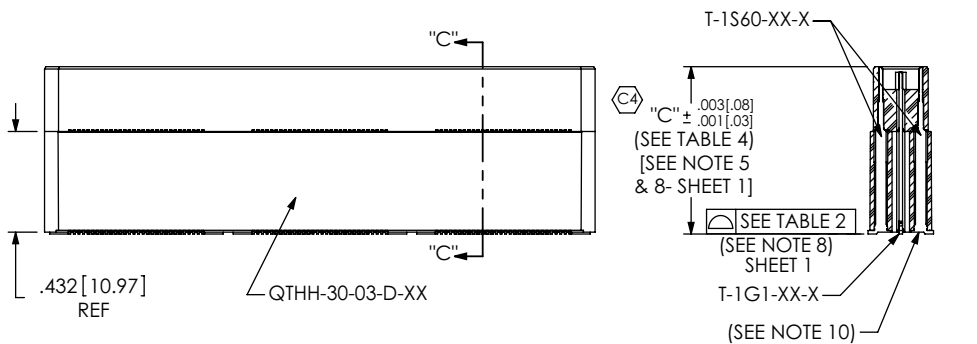


FIG. 5
(QTH-090-05-X-D SHOWN)
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 3]

SECTION "C"-"C"
SCALE 1.25:1

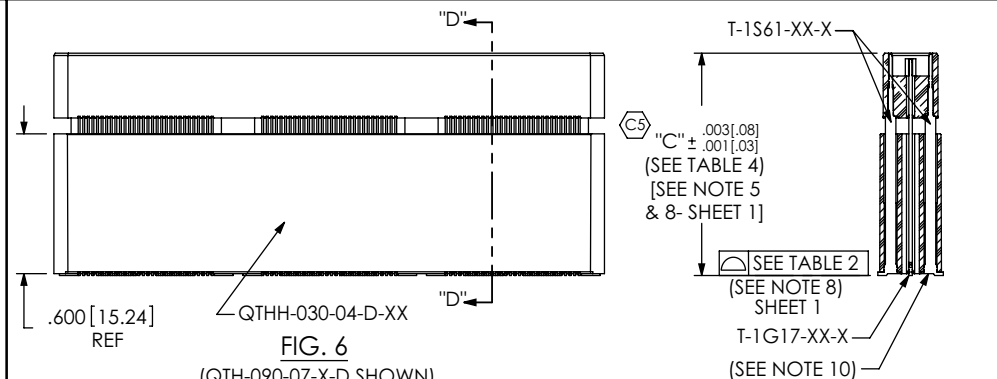


FIG. 6
(QTH-090-07-X-D SHOWN)
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 3]

SECTION "D"-"D"
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QTH-XXX-XX-X-D-XXX

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FIG. 7

(QTH-090-01-X-D-GP SHOWN)
 [DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1]
 (AVAILABLE ON -01 & -02 ONLY)

| TABLE 5 | | |
|---------|-------------|---------------------|
| STYLE | "D" | BODY |
| -01 | .363[9.22] | QTH-30-01-D-XX-X-GP |
| -02 | .481[12.22] | QTH-30-02-D-XX-X-GP |

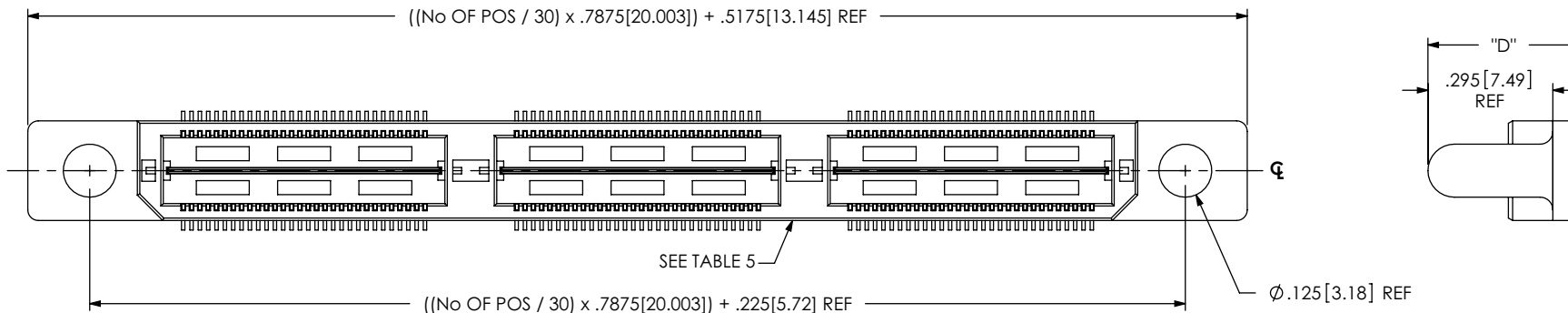
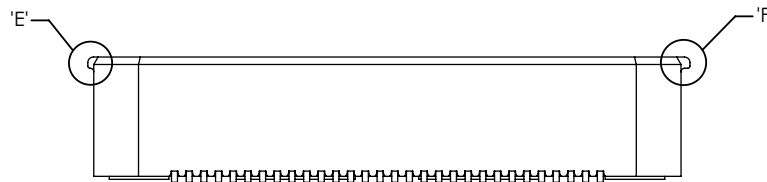
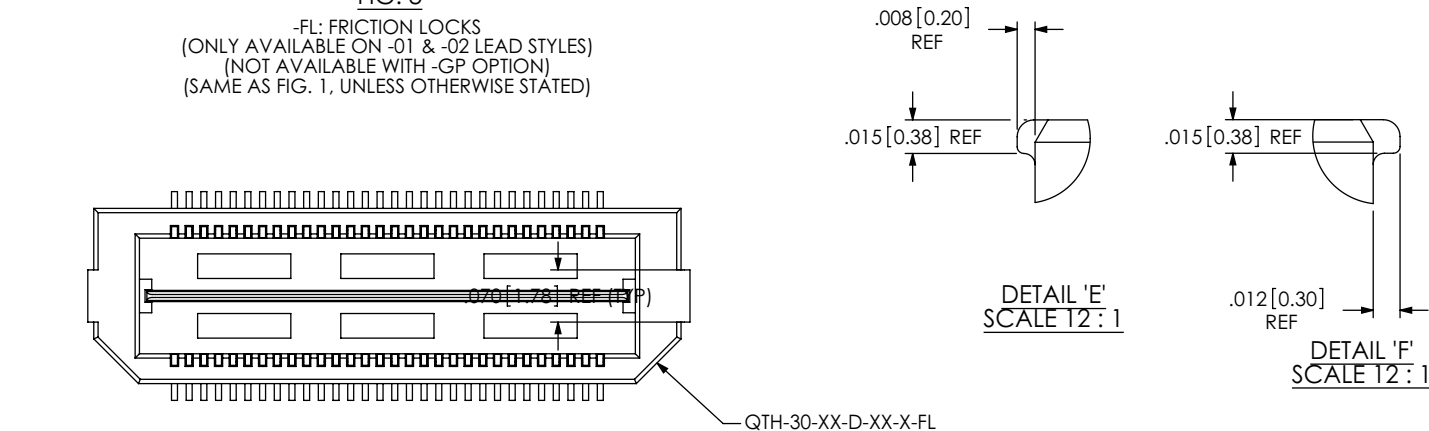


FIG. 8

-FL: FRICTION LOCKS
 (ONLY AVAILABLE ON -01 & -02 LEAD STYLES)
 (NOT AVAILABLE WITH -GP OPTION)
 (SAME AS FIG. 1, UNLESS OTHERWISE STATED)



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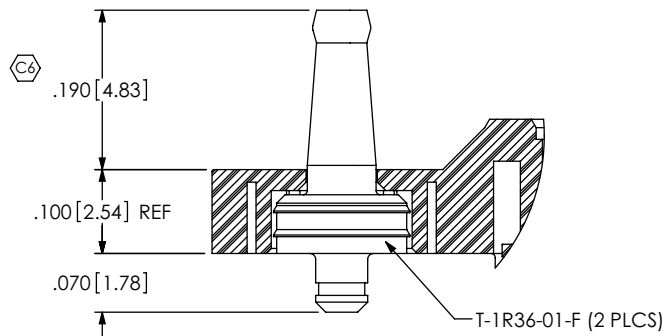
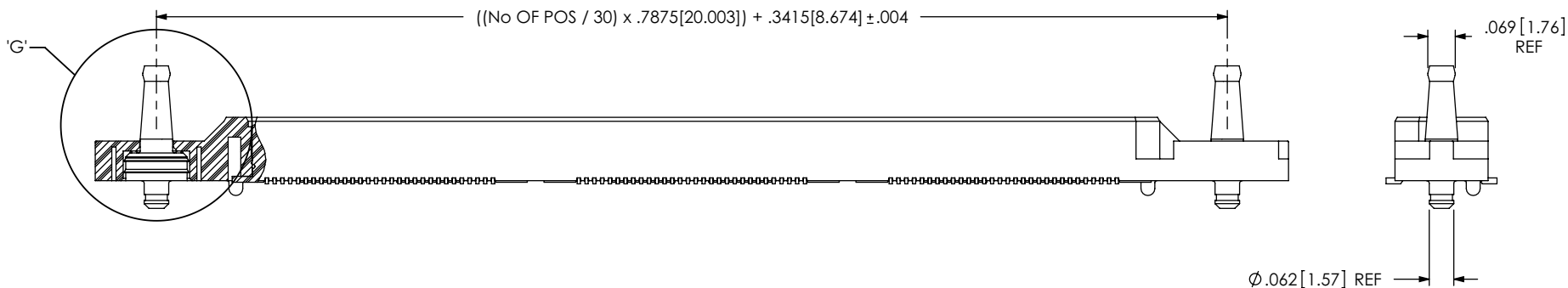
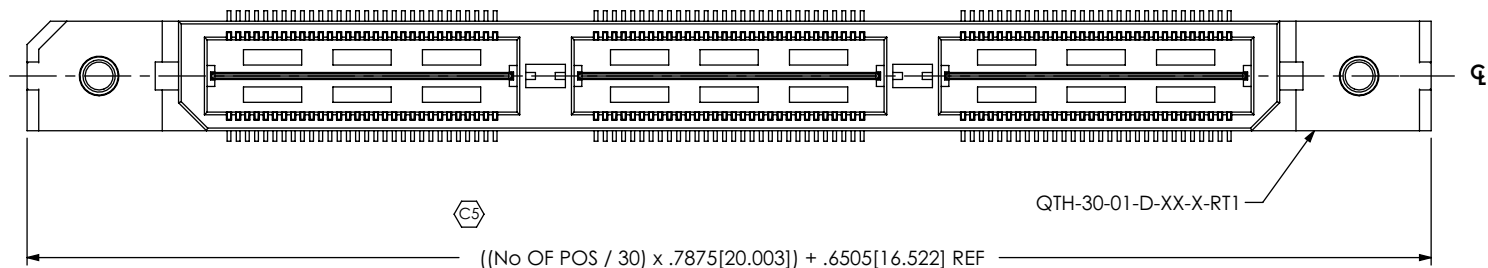
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FIG. 9
 (QTH-090-01-X-D-A-RT1 SHOWN)
 [NOT AVAILABLE WITH -LC, -GP, OR -FL OPTIONS]
 (AVAILABLE ON -01 ONLY)



DETAIL 'G'
 SCALE 4.5 : 1

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