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TABLE 1							MATED HEIGHT WITH QSH-D1
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

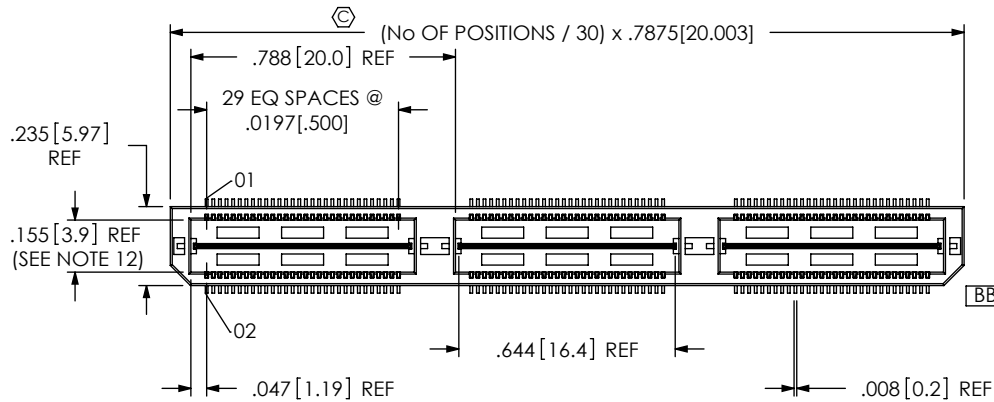
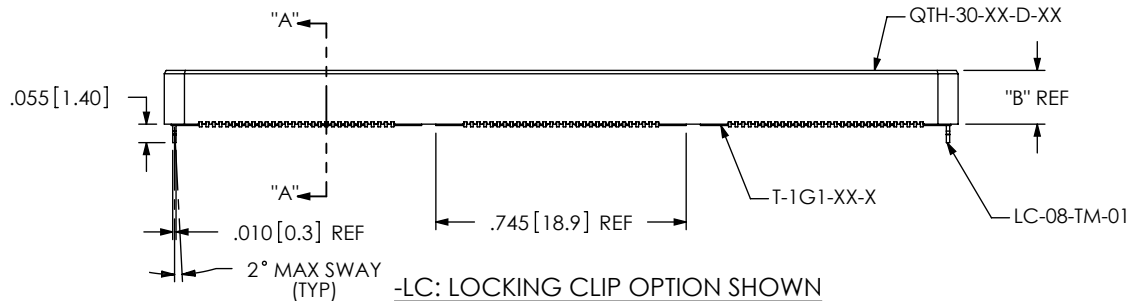
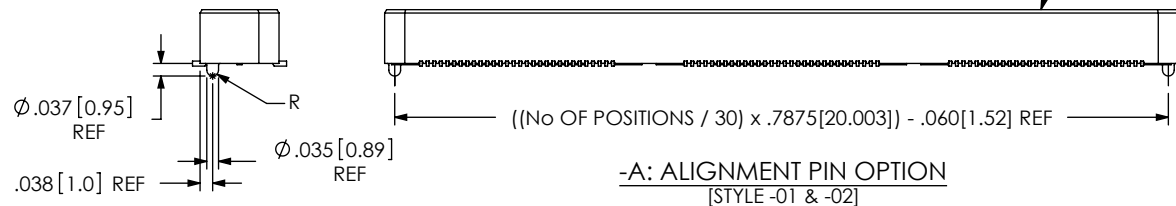


FIG 1  
QTH-090-01-X-D-LC SHOWN



-LC: LOCKING CLIP OPTION SHOWN



NOTES:

1. Ⓢ 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.
12. PIN CAN EXTEND PAST WALL .003 MAX.

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: 3 μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1SXX-XX-F & T-1GXX-XX-F) (SEE NOTE 7)
- L: 10 μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1SXX-XX-L & T-1GXX-XX-L)
- H: 30 μ" GOLD IN CONTACT AREA, 3 μ" GOLD ON TAIL (USE T-1SXX-XX-H & T-1GXX-XX-G)
- C: 50 μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (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) (SEE FIG 11, SHT 7)
- GP: GUIDE POSTS (AVAILABLE ON -01 & -02 ONLY) (USE QTH-30-XX-D-XX-GP) (SEE FIG 7, SHEET 4)
- FL: FRICTION LOCKS (SEE FIG 8, SHEET 4) (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)
- L: LATCHING OPTION (SEE FIG 10, SHT 6) (ONLY AVAILABLE ON -01 LEAD STYLE) (USE QTH-30-01-D-XX-L) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1)

ROW SPECIFICATION

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

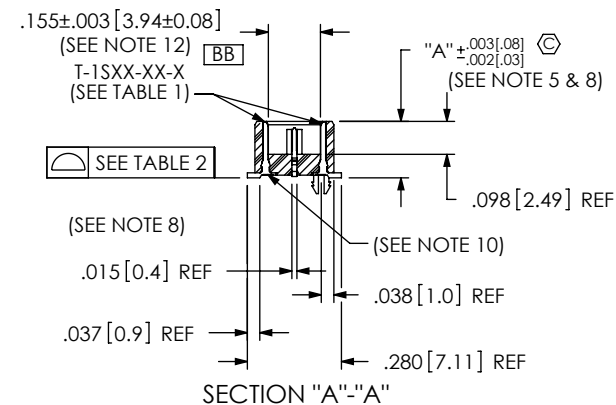
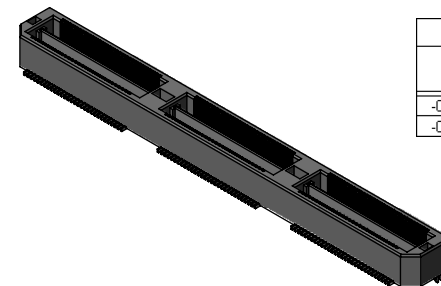


TABLE 2	
No OF POSITIONS	COPLANARITY (INCLUDING GP)
-030 THRU -060	.004 [.10]
-090 THRU -150	.006 [.15]



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

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:0.571  
INSULATOR: LCP, COLOR: BLACK, FLAMMABILITY RATING: UL94V0  
TERMINAL & GROUND PLANE: PHOS BRONZE



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DESCRIPTION:  
.5mm DOUBLE ROW HS TERMINAL ASSEMBLY

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

BY: DEAN P 09-14-2010 SHEET 1 OF 7

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]

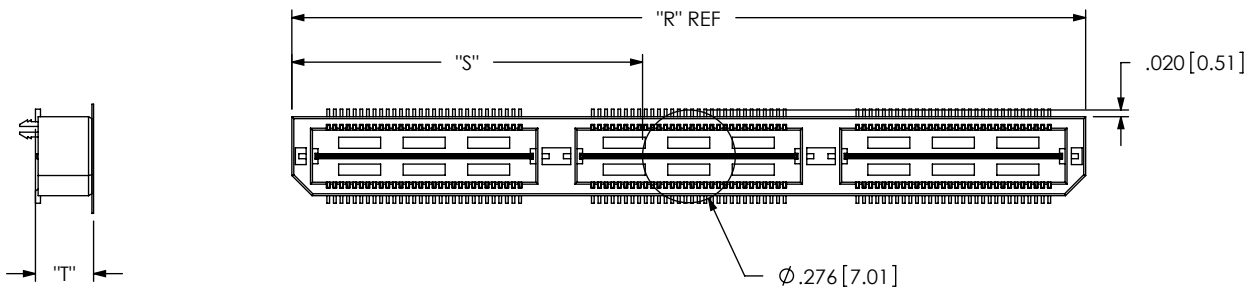


FIG 2

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

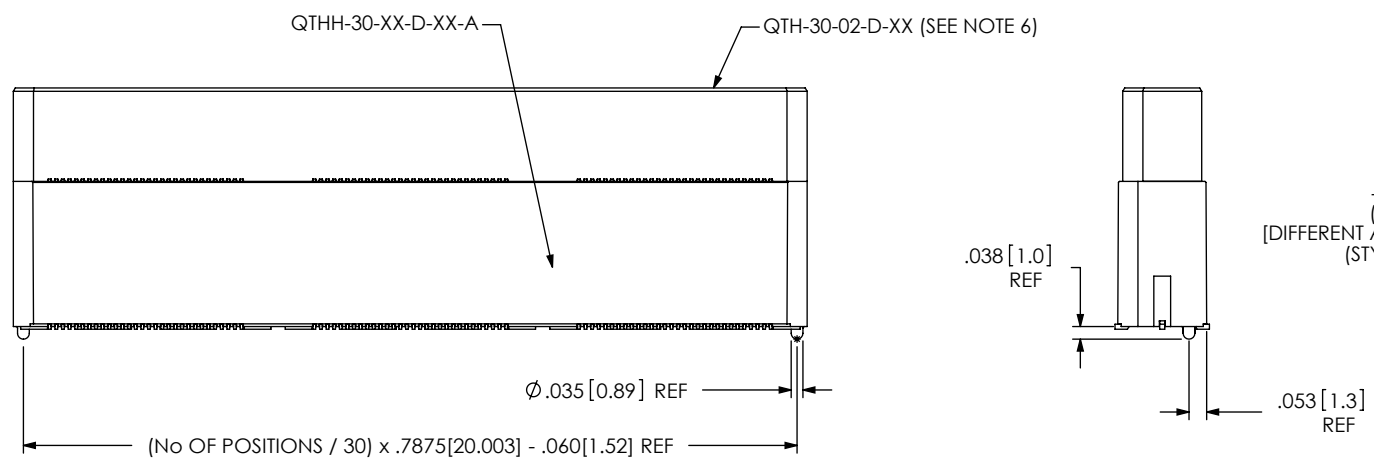


FIG 3

-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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TABLE 4									MATED HEIGHT WITH QSH-01
STYLE	SEE FIGURE	"C" OVERALL HEIGHT	GROUND PLANE	TERMINAL	TOP BODY (SEE NOTE 6)	BOTTOM SPACER BODY (-LC OR NONE)	BOTTOM SPACER BODY (-A)		
-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

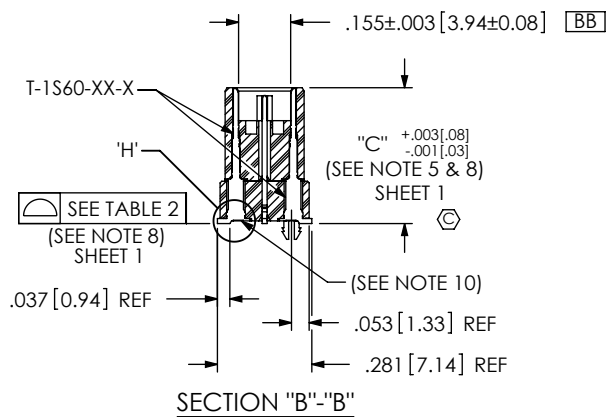
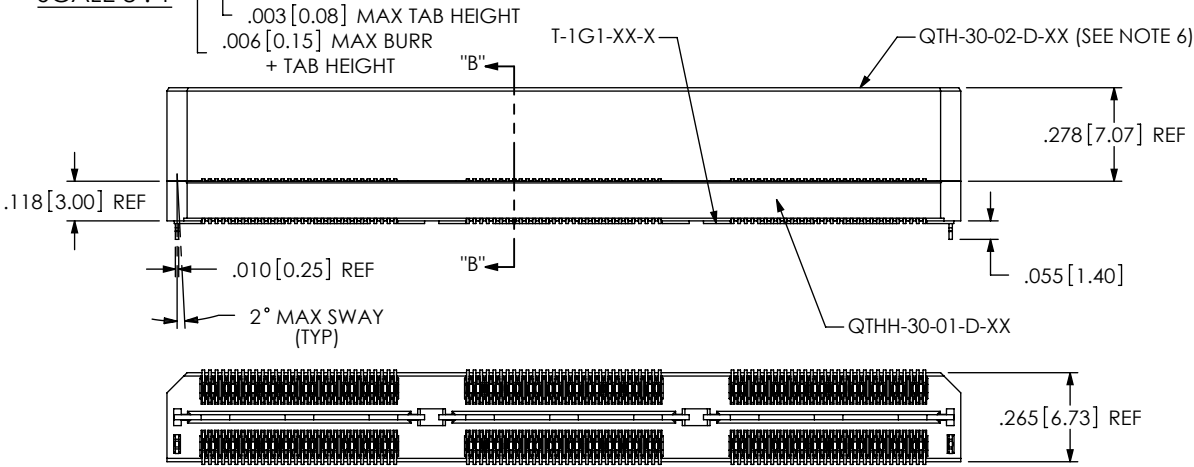
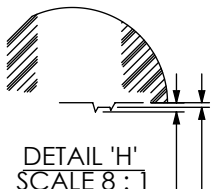


FIG 4  
(QTH-090-03-X-D-LC SHOWN)  
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1]

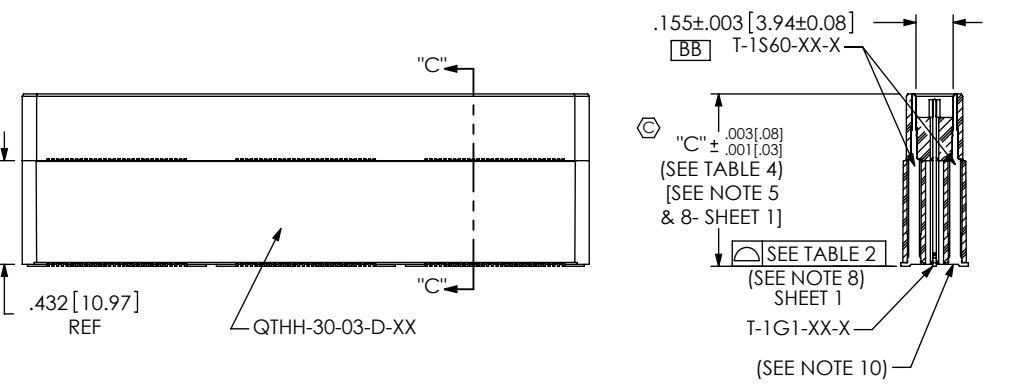


FIG 5  
(QTH-090-05-X-D SHOWN)  
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 3]

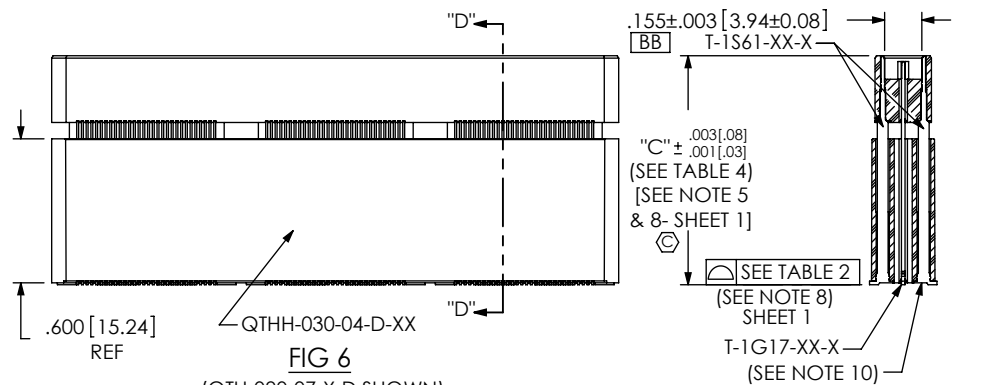
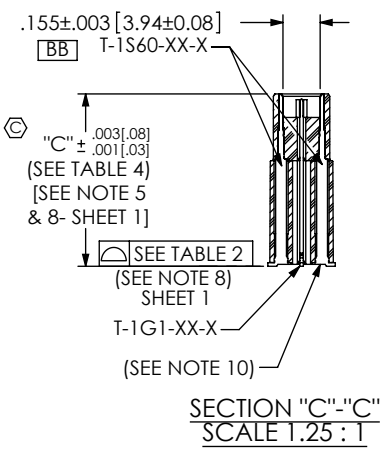


FIG 6  
(QTH-090-07-X-D SHOWN)  
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 3]

SECTION 'D'-'D'  
SCALE 1.25:1

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DWG. NO. 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

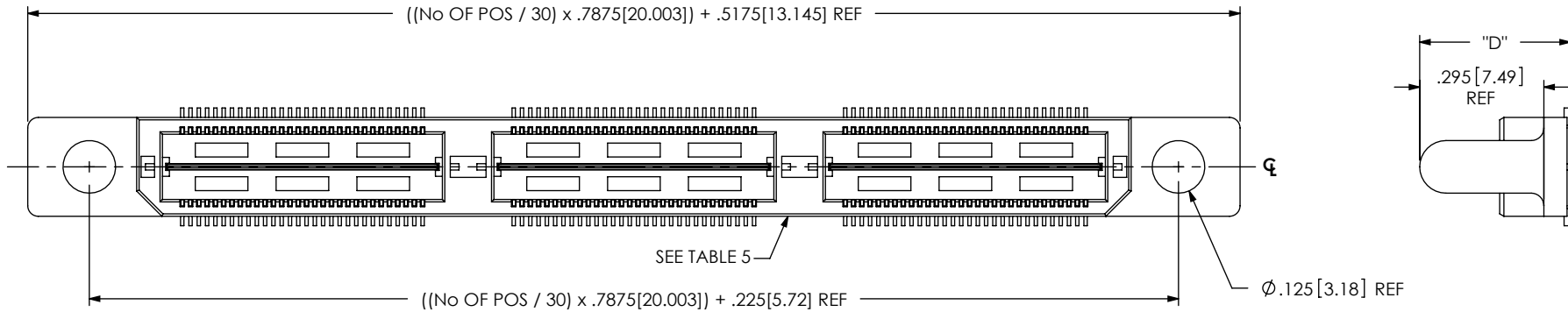
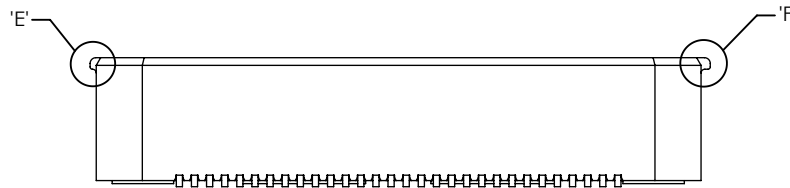
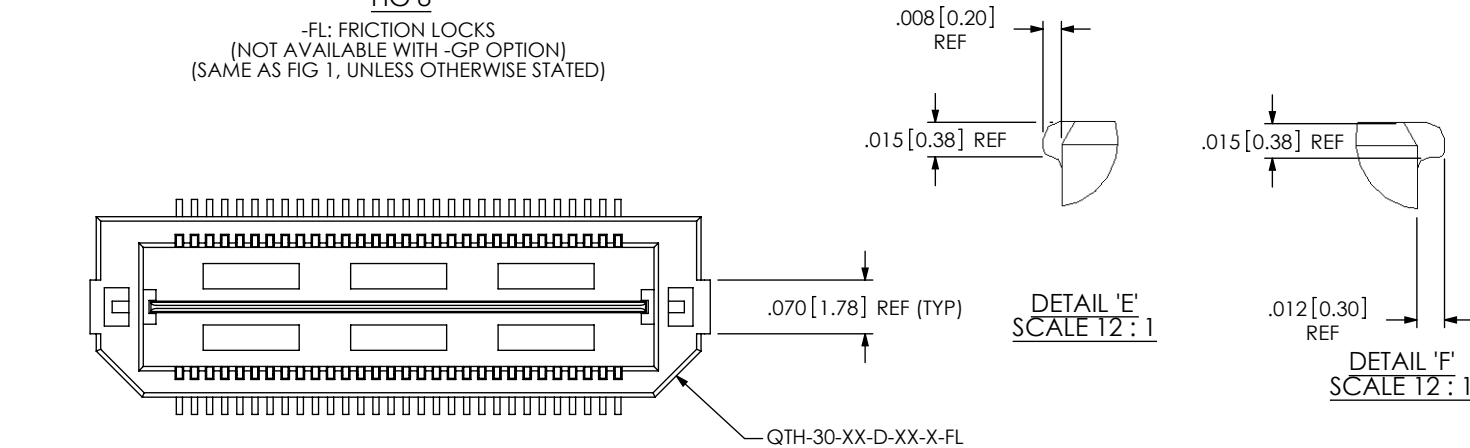


FIG 8

-FL: FRICTION LOCKS  
 (NOT AVAILABLE WITH -GP OPTION)  
 (SAME AS FIG 1, UNLESS OTHERWISE STATED)



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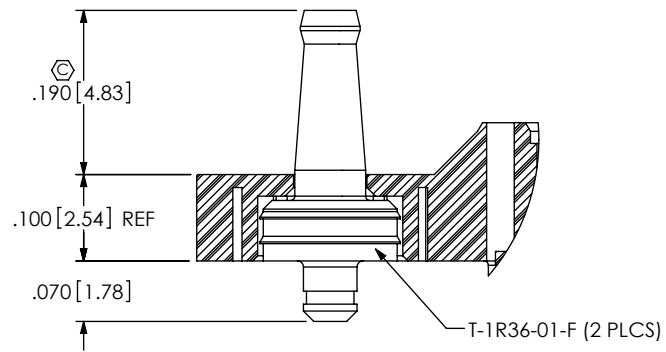
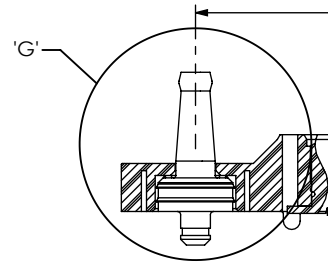
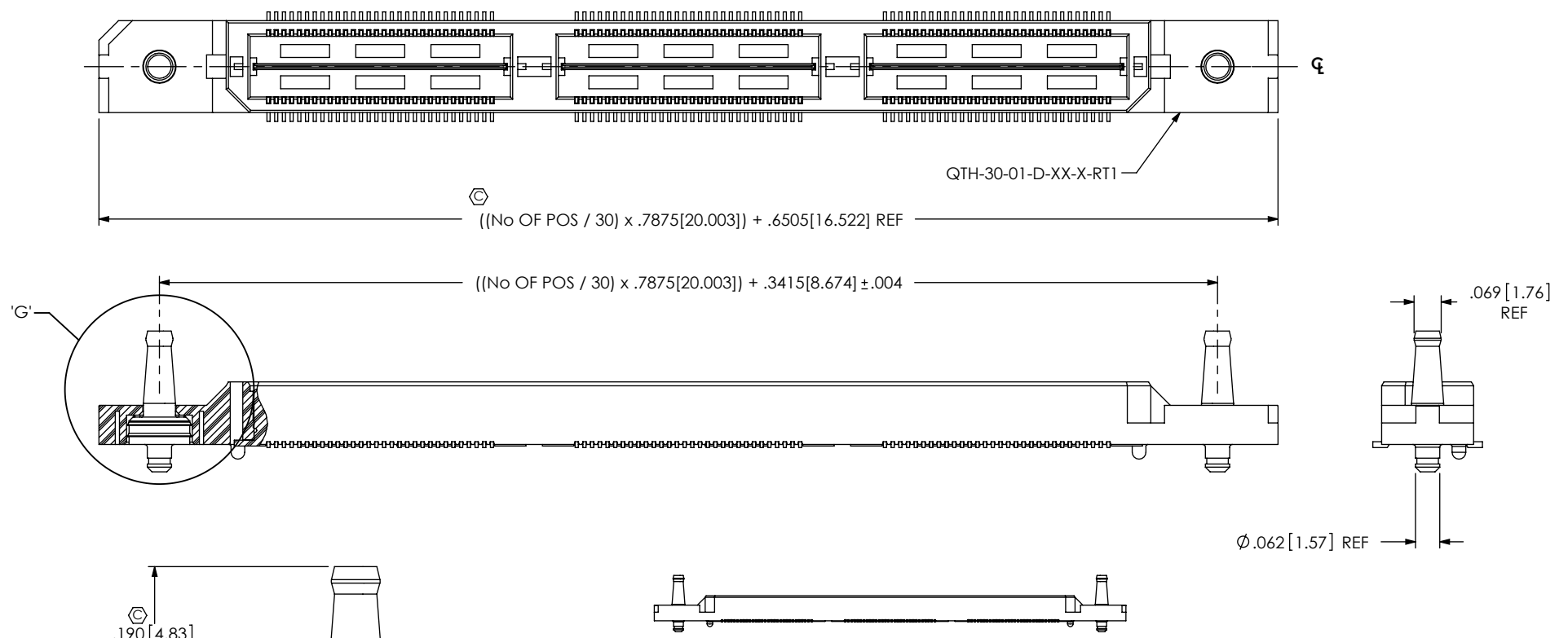
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FIG 9  
 (QTH-090-01-X-D-A-RT1 SHOWN)  
 [NOT AVAILABLE WITH -LC, -GP, OR -FL OPTIONS]  
 (AVAILABLE ON -01 ONLY)



DETAIL 'G'  
 SCALE 4.5: 1

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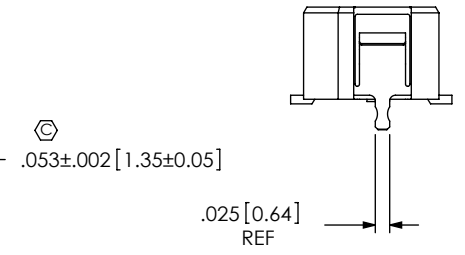
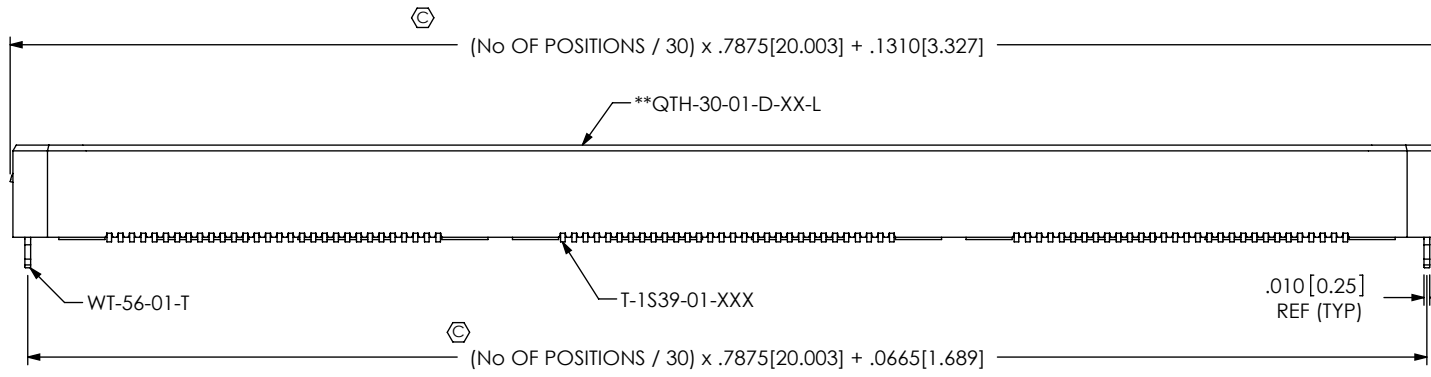
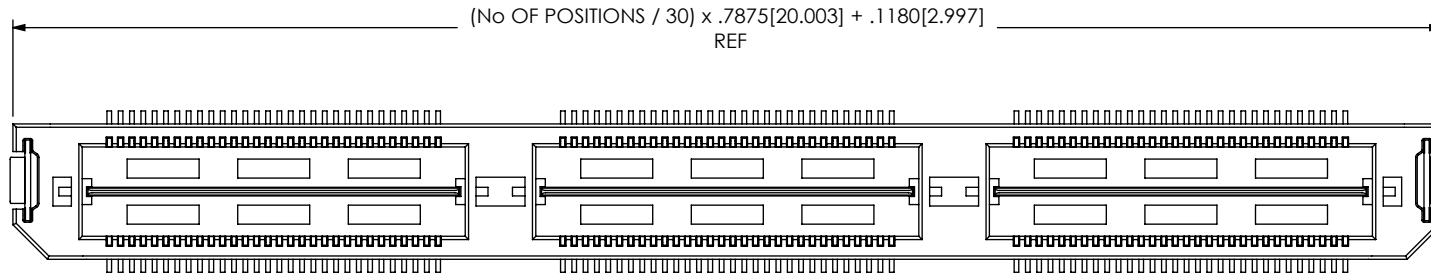
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BB FIG 10  
 L: LATCHING OPTION  
 (QTH-090-01-X-D-L SHOWN)  
 (AVAILABLE ON -01 LEAD STYLE ONLY)  
 (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1 OPTIONS)  
 (SAME AS FIG 1 UNLESS OTHERWISE STATED)

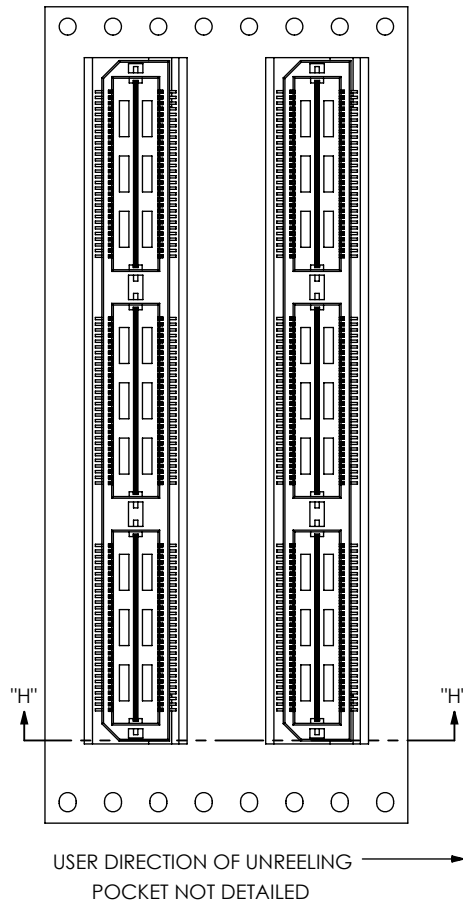


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DWG. NO. QTH-XXX-XX-X-D-XXX	
BY: DEAN P	09-14-2010
SHEET 6 OF 7	



SECTION "H"- "H"  
SCALE 1.5 : 1

BB

FIG 11  
-TR: TAPE & REEL  
(QTH-090-01-X-D-LC-TR SHOWN)  
(90 POS MAX)  
(60 POS MAX W/-GP OPTION)  
(N/A ON -05 THRU -08)  
(SAME AS FIG 1 UNLESS OTHERWISE STATED)

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