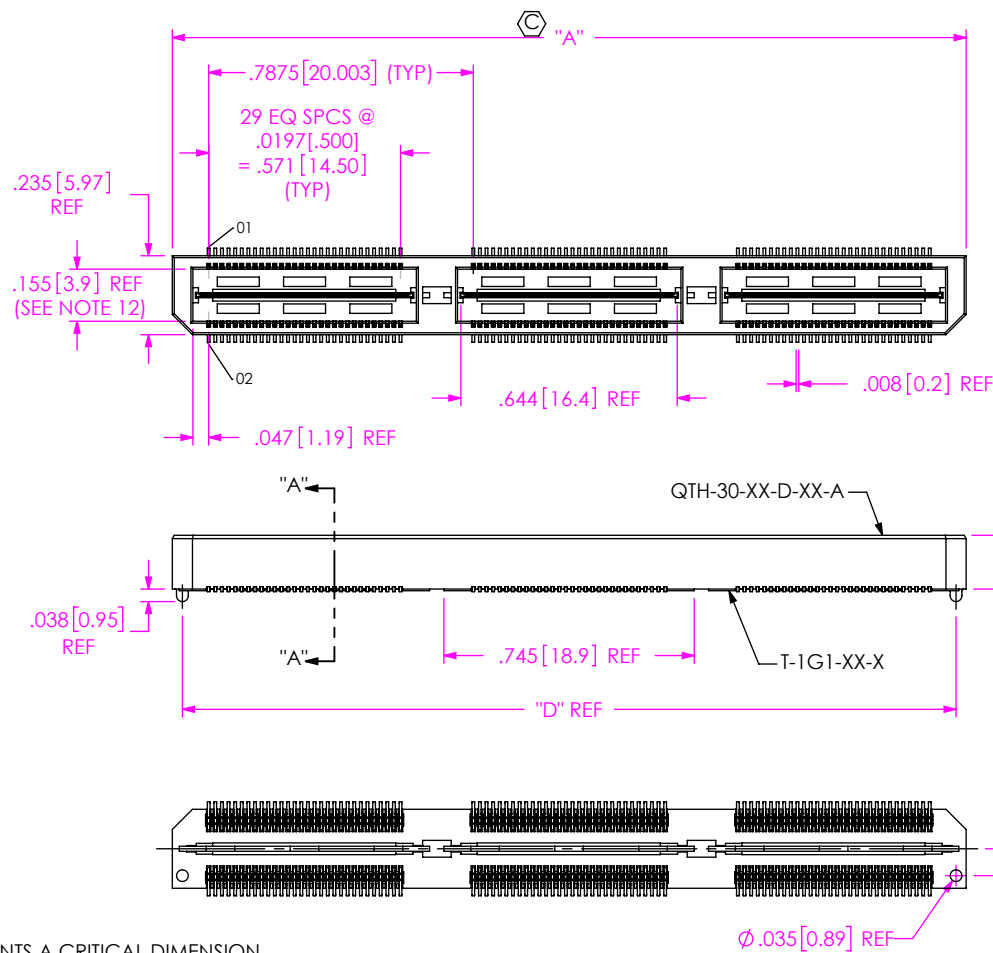


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TABLE 1							MATED HEIGHT WITH QSH-01
STYLE	"B"	"C"	BODY (-LC)	BODY (-A)	GROUND PLANE	TERMINAL	
-01	.1680 [4.267]	.1600 [4.064]	QTH-30-01-D-XX	QTH-30-01-D-XX-A	T-1G1-01-X	T-1S39-01-X	.197 [5.00] REF
-02	.2861 [7.267]	.2781 [7.064]	QTH-30-02-D-XX	QTH-30-02-D-XX-A	T-1G1-02-X	T-1S59-02-X	.3150 [8.00] REF

TABLE 2		
POS	"A"	"D"
-030	.788 [20.00]	.728 [18.48]
-060	1.575 [40.01]	1.515 [38.48]
-090	2.363 [60.01]	2.303 [58.48]
-120	3.150 [80.01]	3.090 [78.49]
-150	3.938 [100.01]	3.878 [98.49]

TABLE 3	
No OF POSITIONS	COPLANARITY INCLUDING GROUND PLANE
-030 THRU -060	.004 [0.10]
-090 THRU -150	.006 [0.15]



NOTES:

1. $\odot$ 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 [0.05]. 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 [0.07] LESS THAN THE MAXIMUM HEIGHT OR .002 [0.05] 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 [0.08] IN ANY DIRECTION, BURR PLUS TAB HEIGHT NOT TO EXCEED .006 [0.15].
11. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
12. MAXIMUM PIN CAN EXTEND PAST WALL .003 [0.08]

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 6, SHT 3

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, SEE FIG 2, SHT 2))
- A: ALIGNMENT PINS (USE QTH-30-XX-D-XX-A FOR -01 & -02) (FOR -03 THRU -10 SEE TABLE 6, SHT 3)
- K: POLYIMIDE FILM (USE K-DOT-276-375-005) (AVAILABLE ON -01 THRU -04, -09 & -10 ONLY) (SEE FIG 4, SHT 2)
- TR: TAPE & REEL (-090 POS MAX) (-060 POS MAX W/ -GP OPTION) (N/A ON -05 THRU -08) (SEE FIG 12, SHT 6)
- GP: GUIDE POSTS (AVAILABLE ON -01 & -02 ONLY) (USE QTH-30-XX-D-XX-GP) (SEE FIG 8, SHT 4)
- FL: FRICTION LOCKS (SEE FIG 9, SHT 4) (NOT AVAILABLE WITH -GP)
- RT1: RETENTION OPTION (SEE FIG 10, SHT 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 11, SHT 5) (ONLY AVAILABLE ON -01 LEAD STYLE) (USE QTH-30-01-D-XX-L) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1) (-060 POS MAX)

ROW SPECIFICATION

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

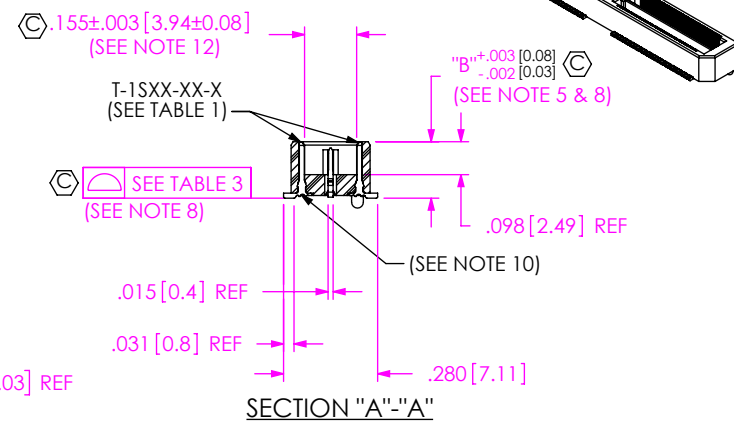


FIG 1

-A: ALIGNMENT PIN OPTION
(STYLE -01 & -02 ONLY)
(QTH-090-01-X-D-A SHOWN)

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01 [0.3]
.XXX: ±.005 [0.13]
.XXXX: ±.0020 [0.051]

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

SHEET SCALE: 1.75:1

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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:
.5mm DOUBLE ROW HS TERMINAL ASSEMBLY

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

BY: DEAN P 09-14-2010 SHEET 1 OF 6

FIG 2
-LC LOCKING CLIP OPTION
(QTH-090-01-X-D-LC SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)

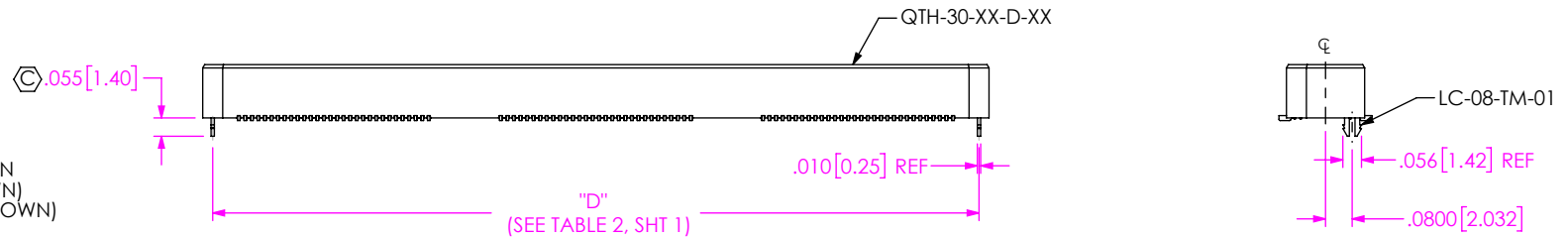
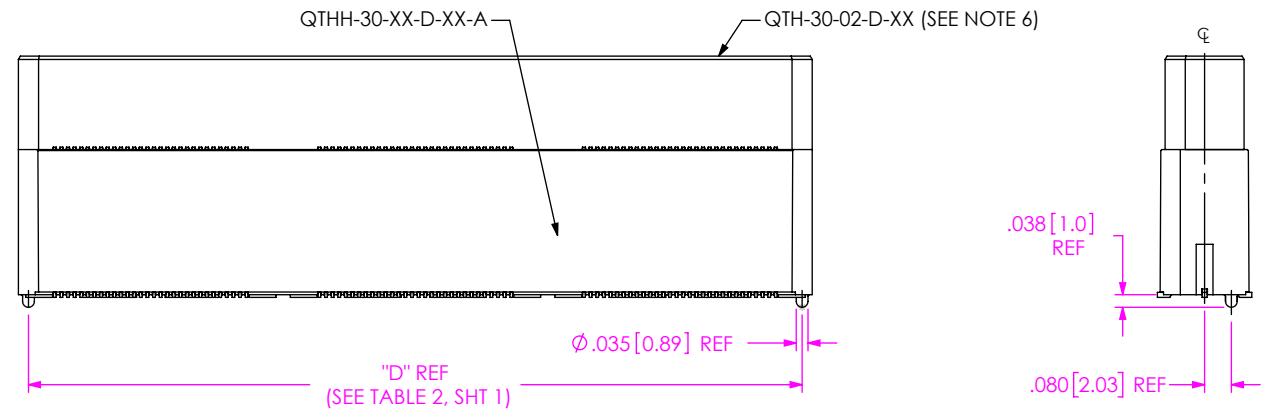


FIG 3
-A: ALIGNMENT PIN OPTION
(QTH-090-05-X-D-A SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)
(STYLES -03 THRU -09, SEE TABLE 6, SHT 3)



No OF POS	TABLE 4					TABLE 5			
	"R"				"S"				STYLE
	-LC, -A, -FL	-GP	-RT1	-L	-LC, -A, -FL	-GP	-RT1	-L	"T"
-030	.788 [20.00]	1.305 [33.15]	1.438 [36.53]	.906 [23.00]	.256 [6.50]	.515 [13.07]	.581 [14.76]	.315 [7.99]	.173 [4.39]
-060	1.575 [40.01]	2.093 [53.15]	2.226 [56.53]	1.693 [43.00]	.650 [16.50]	.908 [23.07]	.975 [24.76]	.709 [18.00]	.290 [7.37]
-090	2.363 [60.01]	2.880 [73.15]	3.013 [76.53]	2.481 [63.00]	1.043 [26.50]	1.302 [33.07]	1.369 [34.76]	1.102 [28.00]	.409 [10.39]
-120	3.150 [80.01]	3.668 [93.15]	3.801 [96.53]	3.268 [83.01]	1.437 [36.50]	1.696 [43.07]	1.762 [44.76]	1.496 [38.00]	.605 [15.37]
-150	3.938 [100.01]	4.455 [113.16]	4.588 [116.54]	4.056 [103.01]	1.831 [46.50]	2.090 [53.07]	2.156 [54.76]	1.890 [48.00]	.527 [13.39]
									.566 [14.38]

STYLE	"T"
-01	.173 [4.39]
-02	.290 [7.37]
-03	.409 [10.39]
-04	.605 [15.37]
-09	.527 [13.39]
-10	.566 [14.38]

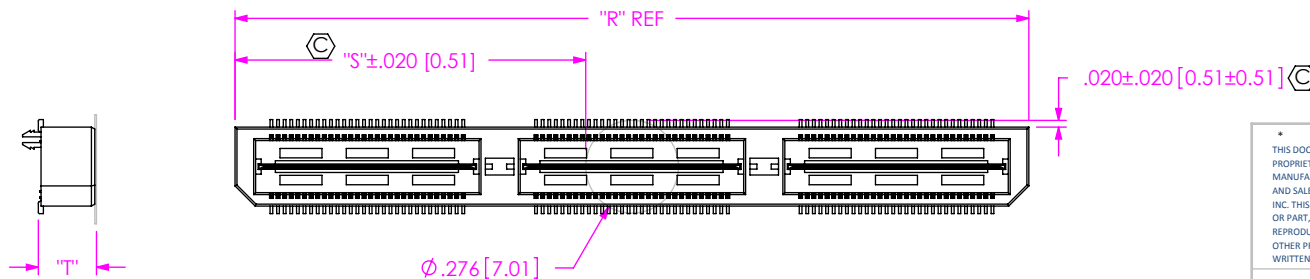


FIG 4
-K: POLYIMIDE FILM PAD OPTION
(USE K-DOT-.276-.375-.005)

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
.5mm DOUBLE ROW HS TERMINAL ASSEMBLY

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

BY: DEAN P 09-14-2010 SHEET 2 OF 6

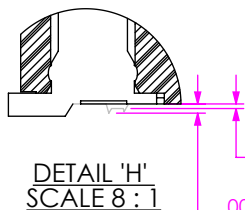


TABLE 6								MATED HEIGHT WITH QSH-01
STYLE	SEE FIGURE	"E" OVERALL HEIGHT	GROUND PLANE	TERMINAL	TOP BODY (SEE NOTE 6)	BOTTOM SPACER BODY (-LC OR NONE)	BOTTOM SPACER BODY (-A)	
-03	5	.4043 [10.269]	T-1G1-03-X	T-1S60-03-X	QTH-30-02-D-XX	QTHH-30-01-D-XX	QTHH-30-01-D-XX-A	.433 [11.00] REF
-04	5	.6001 [15.243]	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	6	.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	6	.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	7	.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 [24.99] REF
-08	7	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	5	.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	5	.5618 [14.270]	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 [15.01] REF

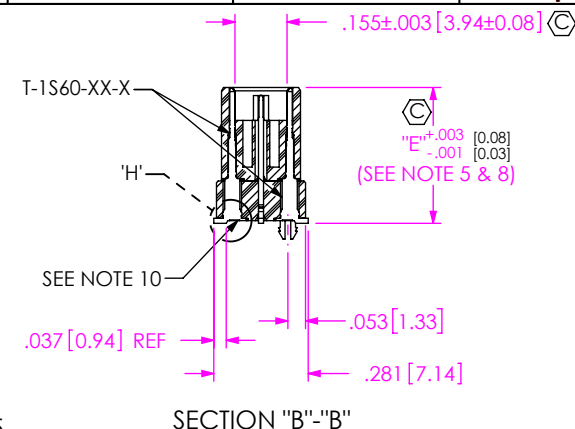
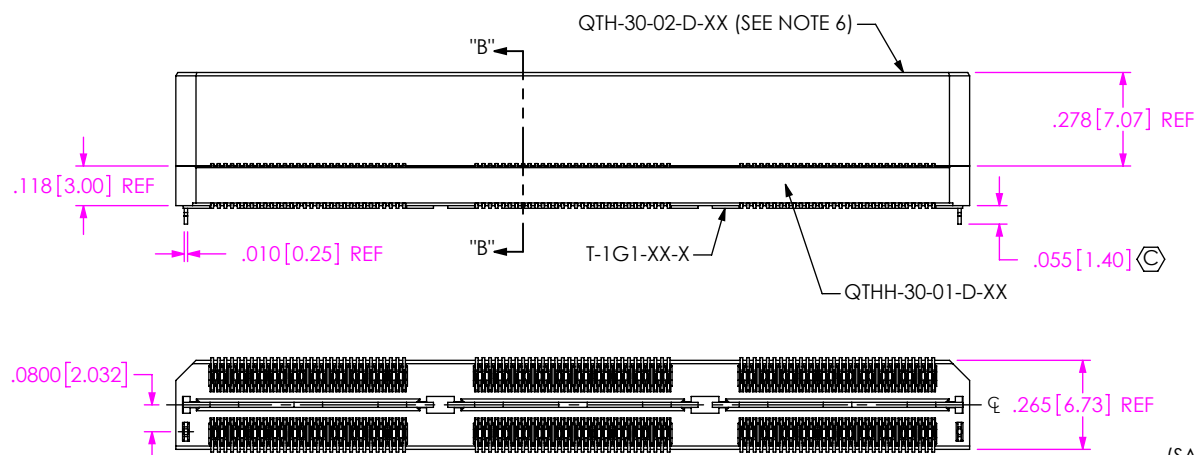


FIG 5
(QTH-090-03-X-D-LC SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)

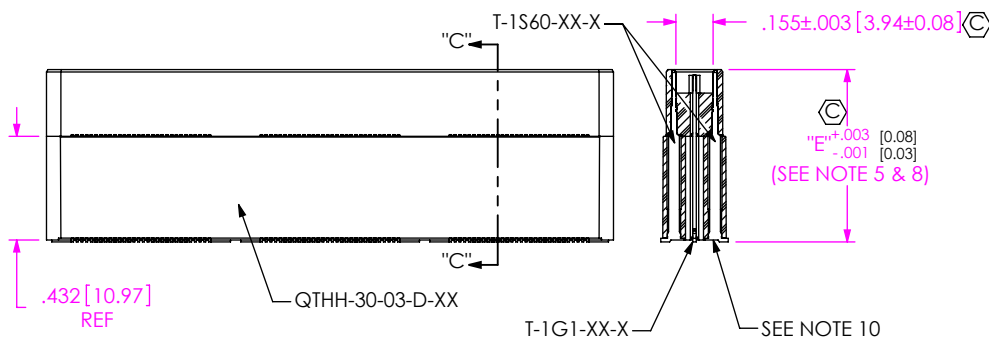


FIG 6
(QTH-090-05-X-D SHOWN)
(SAME AS FIG 5, EXCEPT AS SHOWN)

SECTION 'C'-'C'
SCALE 1.25 : 1

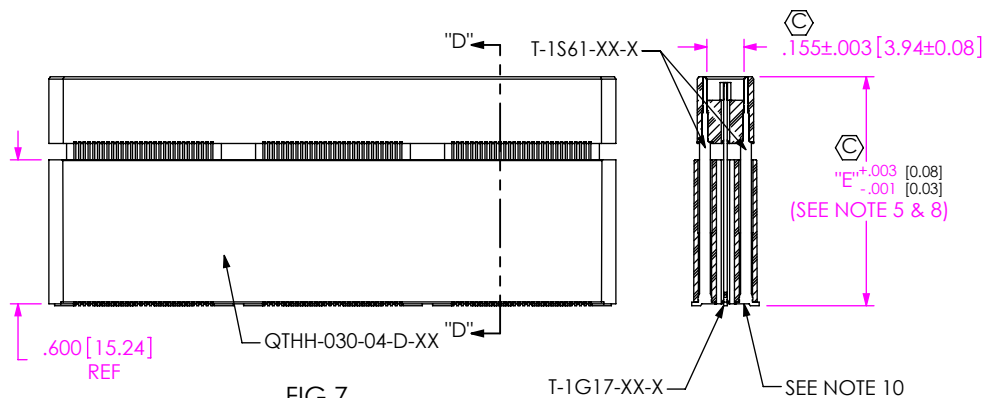


FIG 7
(QTH-090-07-X-D SHOWN)
(SAME AS FIG 5, EXCEPT AS SHOWN)

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

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
.5mm DOUBLE ROW HS TERMINAL ASSEMBLY

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

BY: DEAN P 09-14-2010 SHEET 3 OF 6

TABLE 7		
POS	"F"	"G"
-030	1.305 [33.15]	1.013 [25.72]
-060	2.093 [53.15]	1.800 [45.72]
-090	2.880 [73.15]	2.588 [65.72]
-120	3.668 [93.15]	3.375 [85.73]
-150	4.455 [113.16]	4.163 [105.73]

TABLE 8		
STYLE	"H"	BODY
-01	.3630 [9.220]	QTH-30-01-D-XX-X-GP
-02	.4810 [12.217]	QTH-30-02-D-XX-X-GP

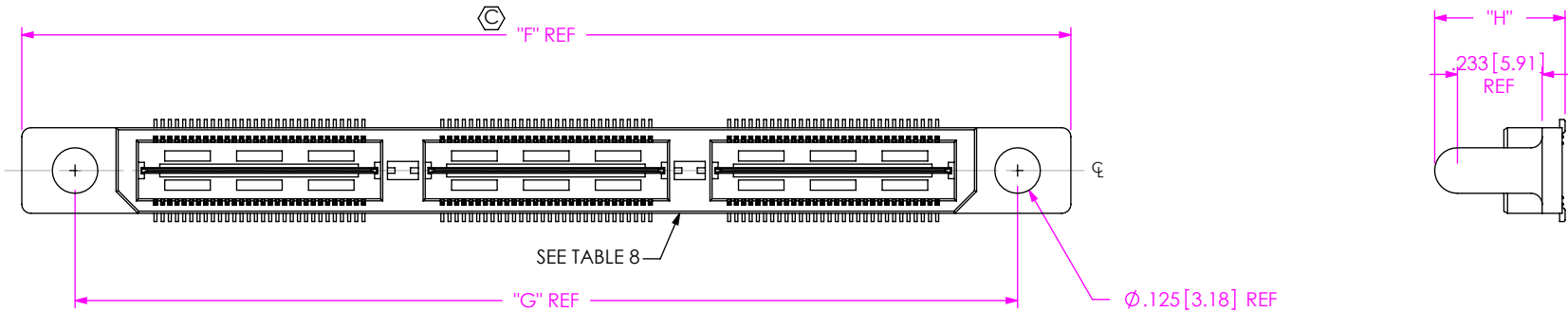


FIG 8
(QTH-090-01-X-D-GP SHOWN)
(SAME AS FIG 1, EXCEPT AS SHOWN)
(AVAILABLE ON -01 & -02 ONLY)

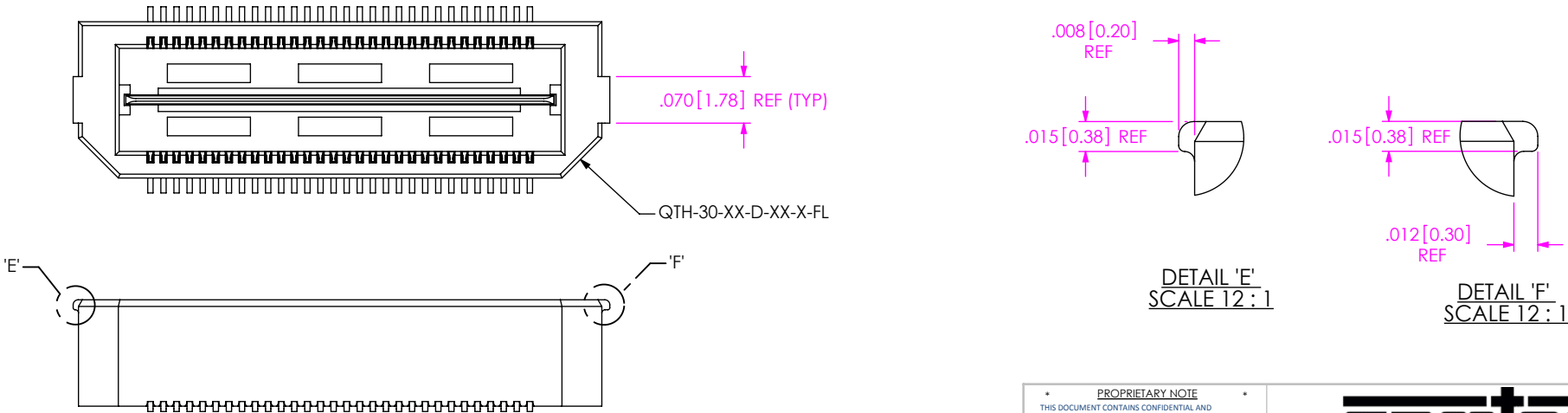


FIG 9
-FL: FRICTION LOCKS
(NOT AVAILABLE WITH -GP OPTION)
(SAME AS FIG 1, EXCEPT AS SHOWN)

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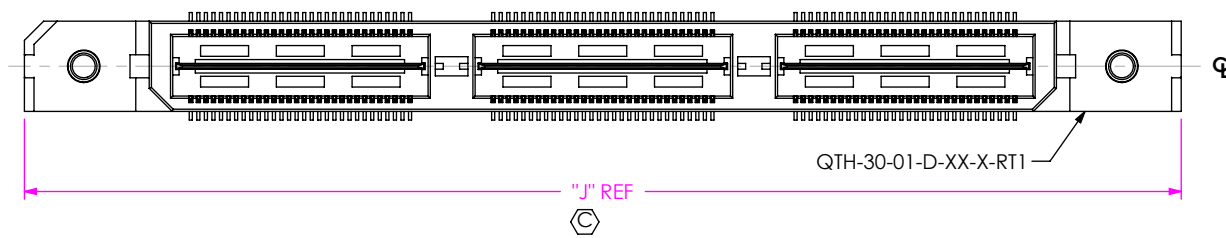


TABLE 9		
POS	"J"	"K"
-030	1.438 [36.53]	1.129 [28.68]
-060	2.226 [56.53]	1.917 [48.68]
-090	3.013 [76.53]	2.704 [68.68]
-120	3.801 [96.53]	3.492 [88.68]
-150	4.588 [116.54]	4.279 [108.69]

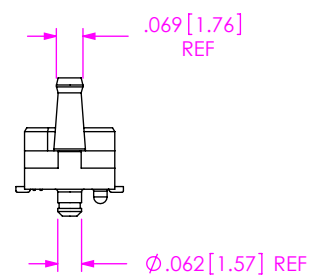
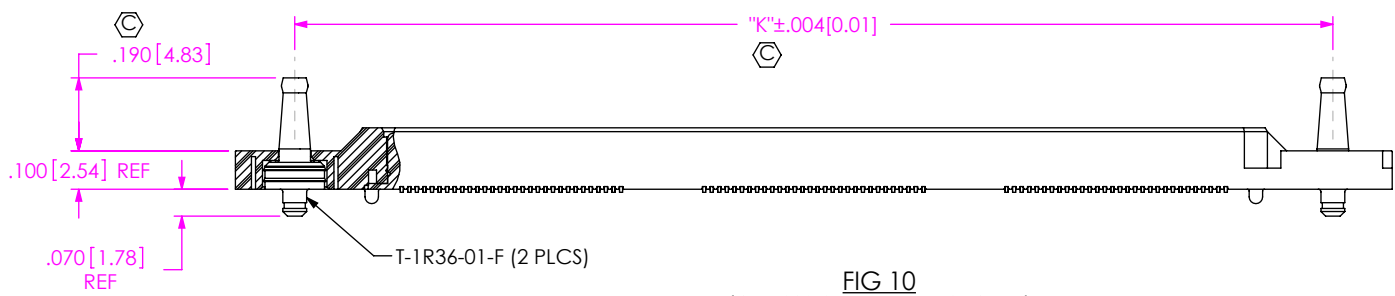


FIG 10
(QTH-090-01-X-D-A-RT1 SHOWN)
(NOT AVAILABLE WITH -LC, -GP, OR -FL OPTIONS)
(AVAILABLE ON -01 ONLY)
(SAME AS FIG 1, EXCEPT AS SHOWN)

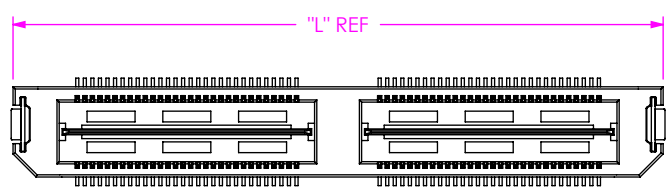


TABLE 10			
POS	"L"	"M"	"N"
-030	.906 [23.00]	.915 [23.24]	.854 [21.69]
-060	1.693 [43.00]	1.703 [43.24]	1.642 [41.69]
*-090	2.481 [63.00]	2.490 [63.25]	2.429 [61.70]

(* = NOT RELEASED)

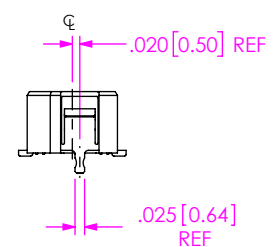
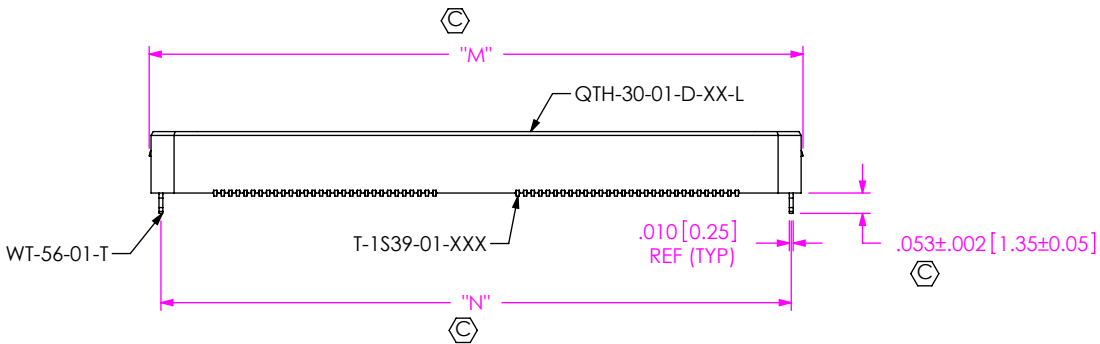


FIG 11
L: LATCHING OPTION
(QTH-060-01-X-D-L SHOWN)
(AVAILABLE ON -01 LEAD STYLE ONLY)
(NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1 OPTIONS)
(SAME AS FIG 1, EXCEPT AS SHOWN)

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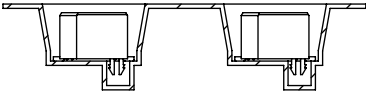
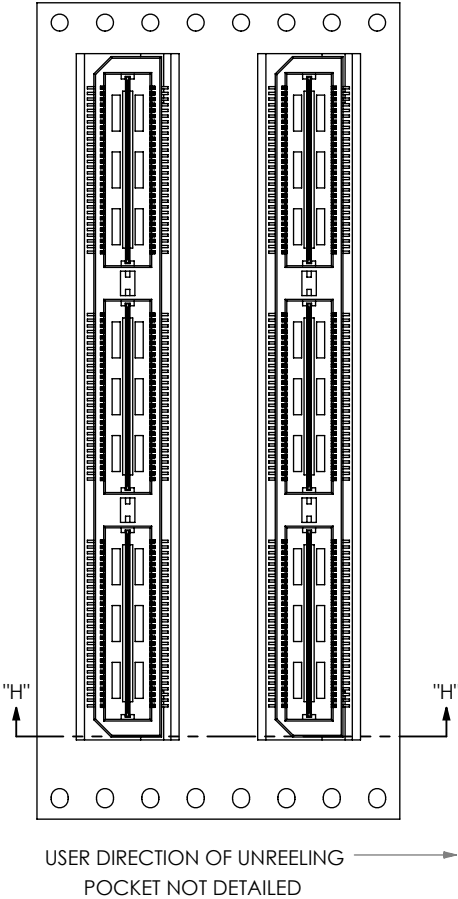
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SHEET SCALE: 2:1

DESCRIPTION:
.5mm DOUBLE ROW HS TERMINAL ASSEMBLY

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

BY: DEAN P 09-14-2010 SHEET 5 OF 6



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

FIG 12
-TR: TAPE & REEL
(QTH-090-01-X-D-LC-TR SHOWN)
(-090 POS MAX)
(-060 POS MAX W/-GP OPTION)
(N/A ON -05 THRU -08)
(SAME AS FIG 1, EXCEPT AS SHOWN)

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	DESCRIPTION: .5mm DOUBLE ROW HS TERMINAL ASSEMBLY DWG. NO. QTH-XXX-XX-X-D-XXX
SHEET SCALE: 1:1	BY: DEAN P 09-14-2010 SHEET 6 OF 6