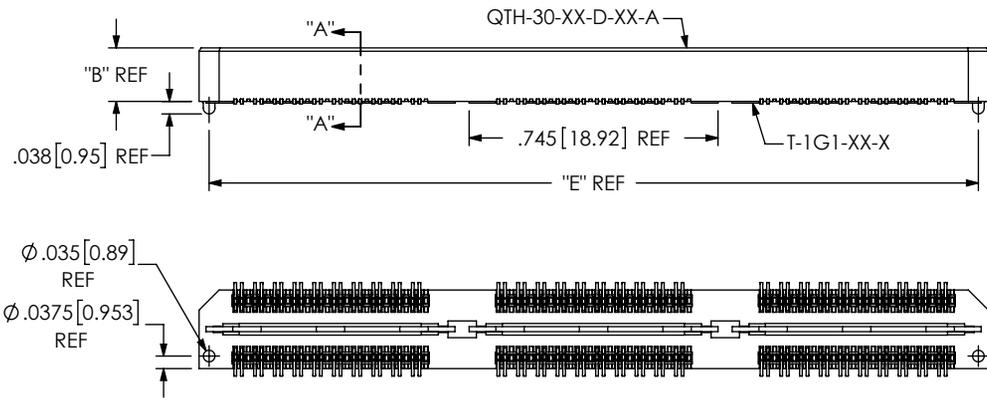
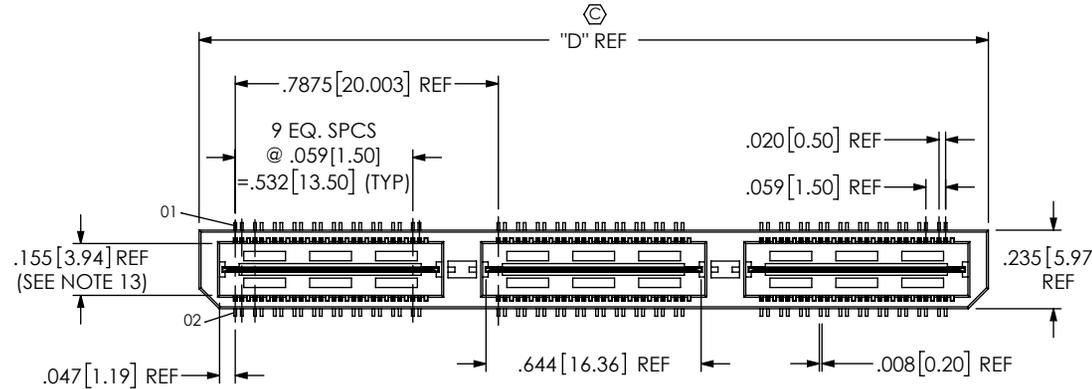


		TABLE 1				MATED HEIGHT WITH QSH-01-DP
STYLE	"A"	"B"	BODY	GROUND PLANE	TERMINAL	
-01	.1680[4.267]	.1600[4.064]	QTH-30-01-D-XX	T-1G1-01-X	T-1S39-01-X	.197[5.00] REF
-02	.2861[7.267]	.2781[7.064]	QTH-30-02-D-XX	T-1G1-02-X	T-1S59-02-X	.315[8.00] REF

TABLE 2	
No OF POSITIONS	COPLANARITY (INCLUDING GP)
-020 THRU -060	.004 [0.10]
-080 & -100	.006 [0.15]

TABLE 3		
No OF POS	"D"	"E"
-020	.788 [20.00]	.728 [18.48]
-040	1.575 [40.01]	1.515 [38.48]
-060	2.363 [60.01]	2.303 [58.48]
-080	3.150 [80.01]	3.090 [78.49]
-100	3.938 [100.01]	3.878 [98.49]

DO NOT SCALE FROM THIS PRINT



- NOTES:
1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
  2. MINIMUM PUSHOUT FORCE: 6 OZ FOR -01 & -02, 8 OZ FOR -03 THRU -09.
  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 -08: TOP BODY (QTH) CANNOT HAVE -A OPTION.
  7. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
  8. -G PLATED GROUND PLANE CAN BE SUBSTITUTED FOR -F PLATED GROUND PLANE.
  9. GROUND PLANE PRESS HEIGHT MUST BE .003 [0.08] LESS THAN THE MAXIMUM HEIGHT OR .002[0.05] GREATER THAN THE MINIMUM HEIGHT OF SIGNAL PIN.
  10. T-1R36 RETENTION TO BODY TO BE 1.0 LBF.
  11. CUT OFF BURR NOT TO EXCEED .003[0.08] IN ANY DIRECTION, BURR PLUS TAB HEIGHT NOT TO EXCEED .006[0.15].
  12. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
  13. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION.
  14. PIN CAN EXTEND PAST WALL .003[0.08] MAX.

QTH-XXX-XX-X-D-DP-XXX

- No OF POSITIONS  
-020, -040, -060, \*\*\*-080, \*\*\*\*-100 (PER ROW)  
\*\*\*SEE NOTE 11
- LEAD STYLE  
\*01: .1680[4.267]  
\*02: .2861[7.264]  
\*03: .4042[10.267]  
\*04: .6001[15.243]  
\*05: .7181[18.240]  
\*06: .8361[21.237]  
\*07: .9542[24.237]  
\*08: 1.1511[29.238]  
\*09: .5224[13.269]  
\*10: .5618[14.270]
- OPTION  
-A: ALIGNMENT PINS (SEE FIGS 1 & 3, SHT 2)  
-LC: LOCKING CLIPS (USE LC-08-TM-01, SEE FIG 2) (SEE NOTE 12)  
-K: POLYIMIDE FILM (USE K-DOT-.276-.375-.005) (AVAILABLE ON -01 THRU -04 & -09 AND -10 ONLY) (SEE FIG 4, SHT 2)  
-TR: TAPE & REEL (60 POS MAX) (40 POS MAX FOR -GP OPTION) (N/A ON -05 THRU -08)  
\*\* -GP: GUIDE POSTS OPTION (AVAILABLE ON -01 & \*\*-02 ONLY) (USE QTH-30-XX-D-XX-GP) (SEE FIG 8, SHT 4)  
-RT1: RETENTION OPTION (SEE FIG 9, SHT 4) (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 OR -GP)  
-L: LATCHING OPTION (SEE FIG 10, SHT 5) (ONLY AVAILABLE ON -01 LEAD STYLE) (USE QTH-30-01-D-XX-L) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1) (40 POS MAX)  
-FL: FRICTION LOCKS (SEE FIG 11, SHT 5) (NOT AVAILABLE WITH -GP)
- PLATING SPECIFICATION  
-F: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1GXX-XX-F) (SEE NOTE 7)  
-L: 10μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1GXX-XX-L)  
-H: 30μ" GOLD IN CONTACT AREA, 30μ" GOLD ON TAIL (USE T-1GXX-XX-G)  
-C: 50μ" ELECTRO-POLISHED SELECTIVE IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1GXX-XX-L)
- \* = RELEASED FOR ASO ONLY (APPLICATION SPECIFIC ORDER)  
\*\* = -02 LEAD STYLE NOT RELEASED FOR PRODUCTION
- DIFFERENTIAL PAIRS  
ROW SPECIFICATION  
-D: DOUBLE (USE QTH-30-01-D-XX)
- No OF BANKS

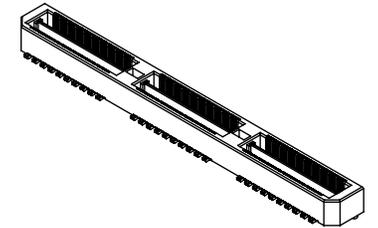
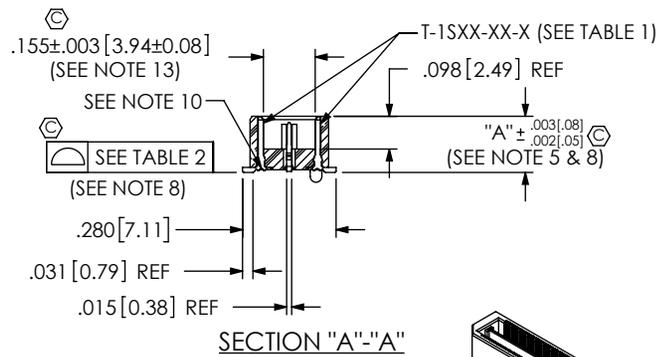


FIG 1  
-A: ALIGNMENT PIN OPTION (QTH-060-01-X-D-A SHOWN) (FOR -01 & -02 LEAD STYLE ONLY)

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX: ±.01[.3] .XXX: ±.005[.13] .XXXX: ±.0020[.051]	PROPRIETARY NOTE THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.		
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MATERIAL: DO NOT SCALE DRAWING	SHEET SCALE: 1.75:1	DESCRIPTION: .5mm DIFFERENTIAL PAIRS TERMINAL ASSEMBLY	
INSULATOR: LCP UL94V-0, COLOR: BLACK TERMINAL & GROUND PLANE: PHOS BRONZE		DWG. NO. <b>QTH-XXX-XX-X-D-DP-XXX</b>	
F:\DWG\MISC\MKGT\QTH-XXX-XX-X-D-DP-XXX-MKT.SLDDRW		BY: KEVIN B 09-14-2010	SHEET 1 OF 5

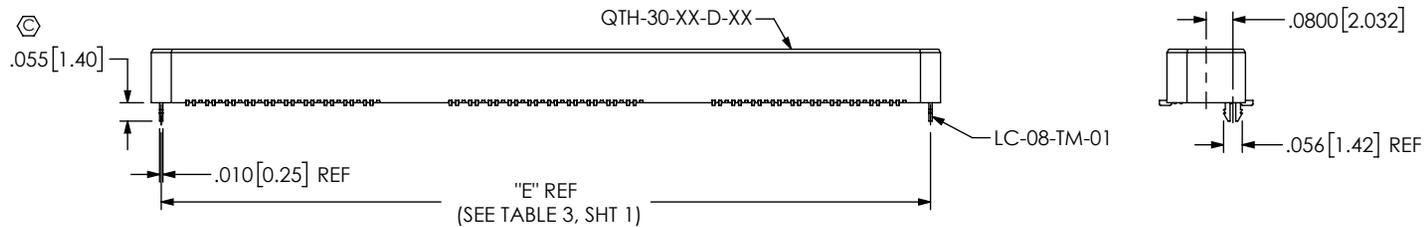


FIG 2  
-LC: LOCKING CLIP OPTION  
(QTH-060-01-X-D-LC SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

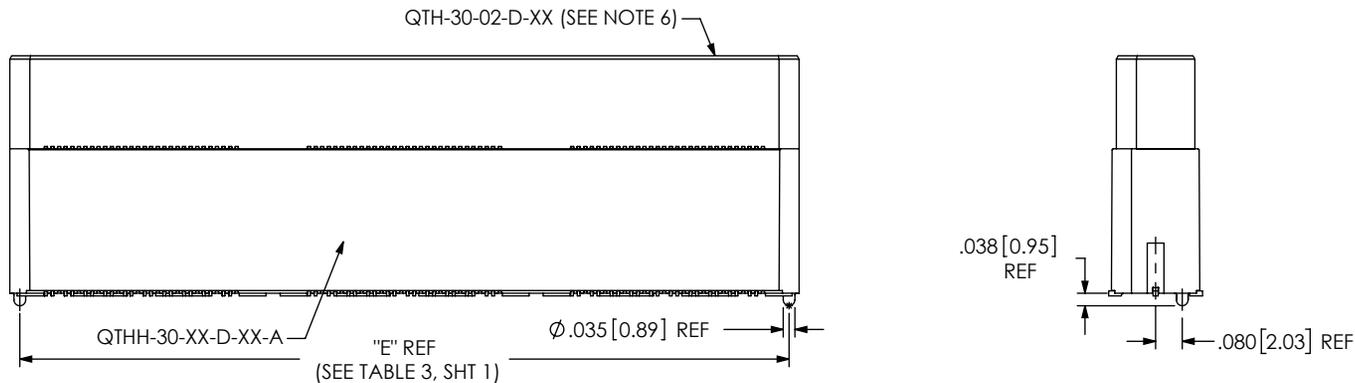
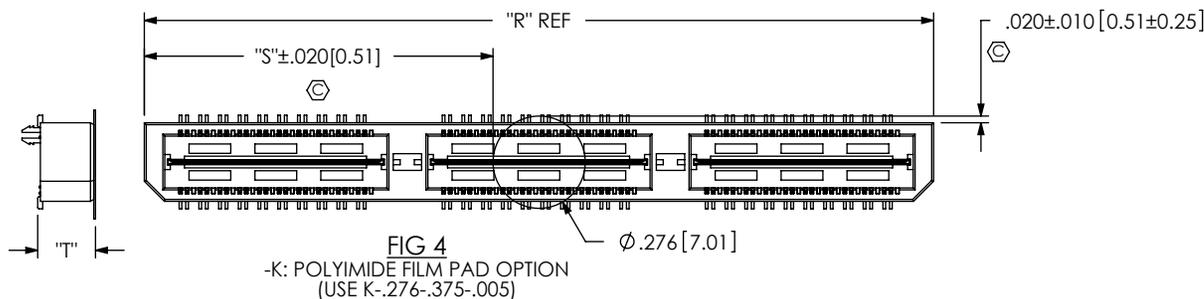


FIG 3  
-A: ALIGNMENT PIN OPTION  
(QTH-060-05-X-D-DP-A SHOWN)  
(FOR -03 THRU -08 LEAD STYLE ONLY)  
(SEE TABLE 4, SHT 3)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

No OF POS	"R"				"S"			
	-A, -LC, -FL	-GP	-RT1	-L	-A, -LC, -FL	-GP	-RT1	-L
-020	.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]
-040	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]
-060	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]	1.103 [28.00]
-080	3.150 [80.01]	3.668 [93.15]	N/A	N/A	1.437 [36.50]	1.696 [43.07]	N/A	N/A
-100	3.938 [100.01]	4.455 [113.16]	N/A	N/A	1.831 [46.50]	2.090 [53.07]	N/A	N/A

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]



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e-Mail: info@SAMTEC.com code 55322

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.5mm DIFFERENTIAL PAIRS TERMINAL ASSEMBLY  
DWG. NO.  
**QTH-XXX-XX-X-D-DP-XXX**  
BY: KEVIN B 09-14-2010 SHEET 2 OF 5

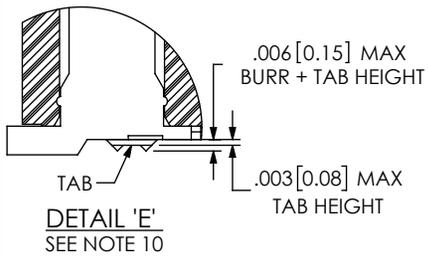


TABLE 4								
STYLE	SEE FIGURE	"C" OVERALL HEIGHT	GROUND PLANE	TERMINAL	TOP BODY (SEE NOTE 6)	BOTTOM SPACER BODY (-LC OR NONE)	BOTTOM SPACER BODY (-A)	MATED HEIGHT WITH QSH-01
-03	5	.4043 [10.269]	T-1G1-03-X	T-1S60-03-X	QTH-30-02-D-XX	QTHH-30-01-D-XX	QTHH-30-01-D-XX-A	.433 [11.00] REF
-04	5	.6001 [15.243]	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-1G1-07-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

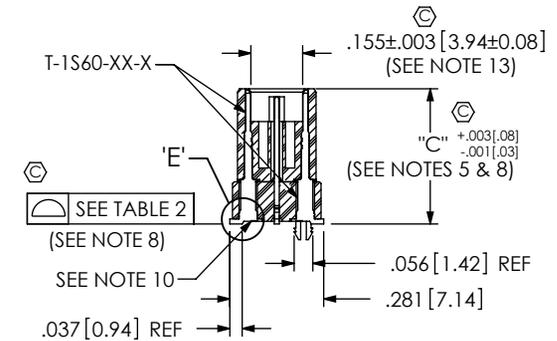
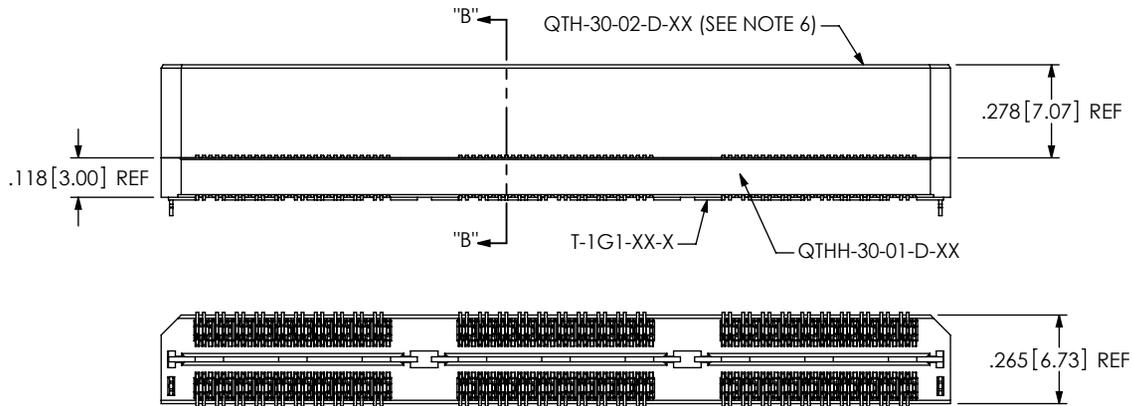
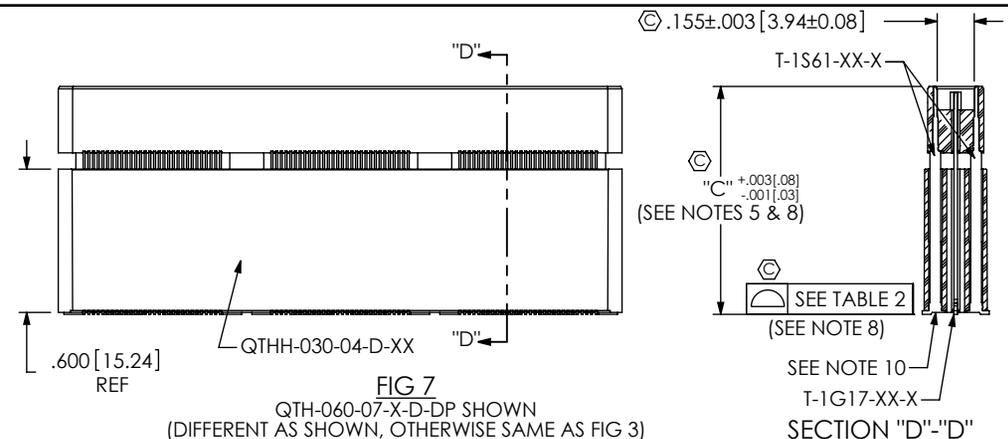
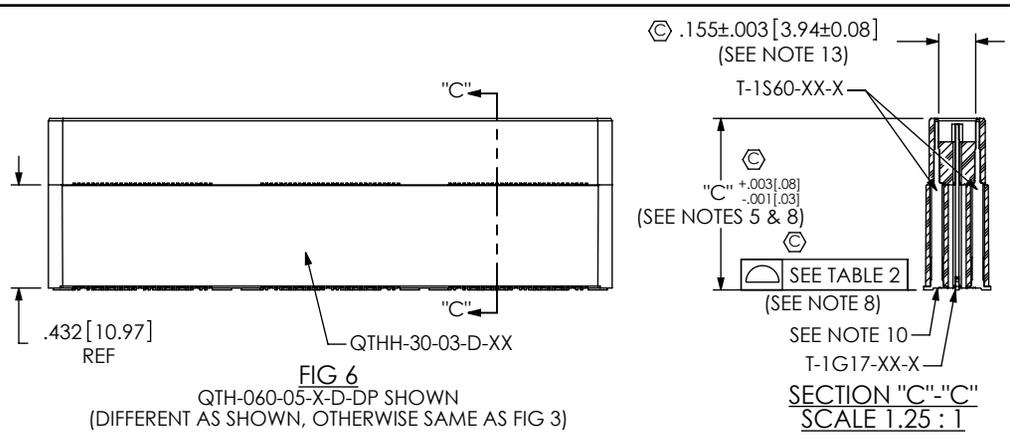


FIG 5 QTH-060-03-X-D-DP-LC SHOWN (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



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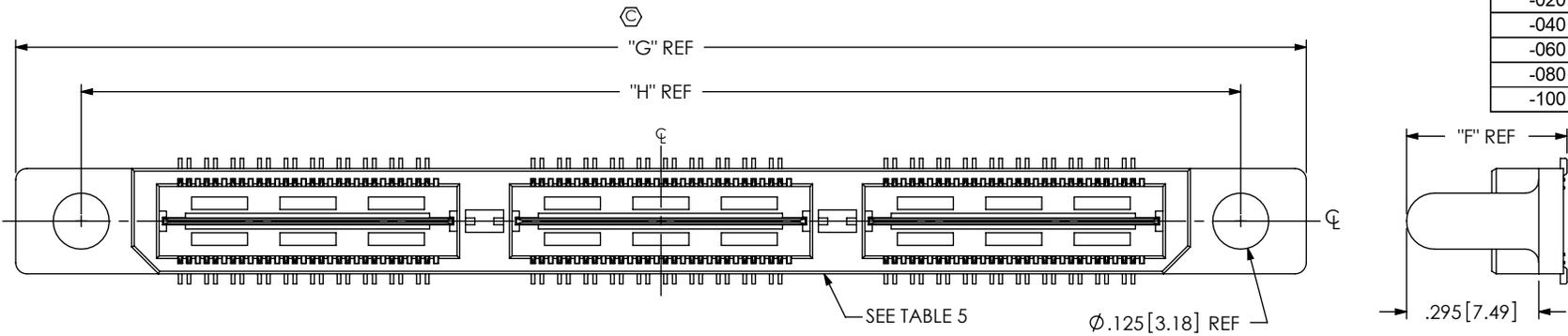
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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
 .5mm DIFFERENTIAL PAIRS TERMINAL ASSEMBLY

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

BY: KEVIN B 09-14-2010 SHEET 3 OF 5

TABLE 8		
No OF POS	"G"	"H"
-020	1.305 [33.15]	1.013 [25.73]
-040	2.093 [53.15]	1.801 [45.73]
-060	2.880 [73.15]	2.588 [65.74]
-080	3.668 [93.15]	3.376 [85.74]
-100	4.455 [113.16]	4.163 [105.74]



**FIG 8**  
 -GP: GUIDE POST OPTION  
 (QTH-060-01-X-D-DP-GP SHOWN)  
 (FOR -01 & -02 LEAD STYLE ONLY)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 7		
STYLE	"F"	BODY
-01	.3630[9.220]	QTH-30-01-D-XX-X-GP
*-02	.4811[12.220]	QTH-30-02-D-XX-X-GP

(\* = NOT ENGINEERING APPROVED)

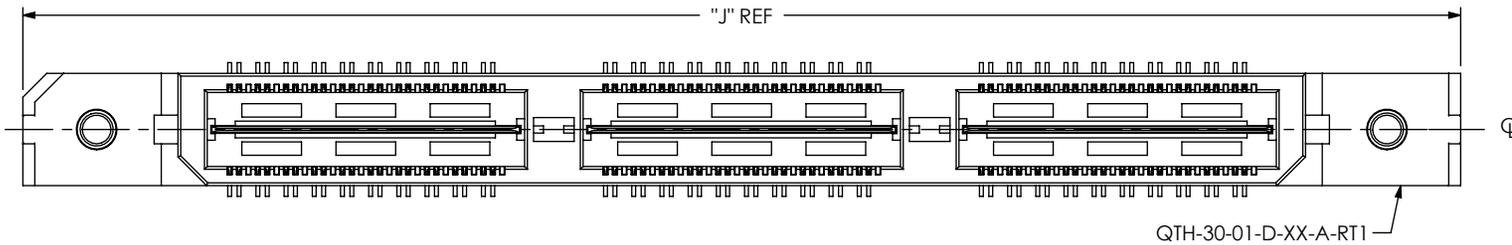
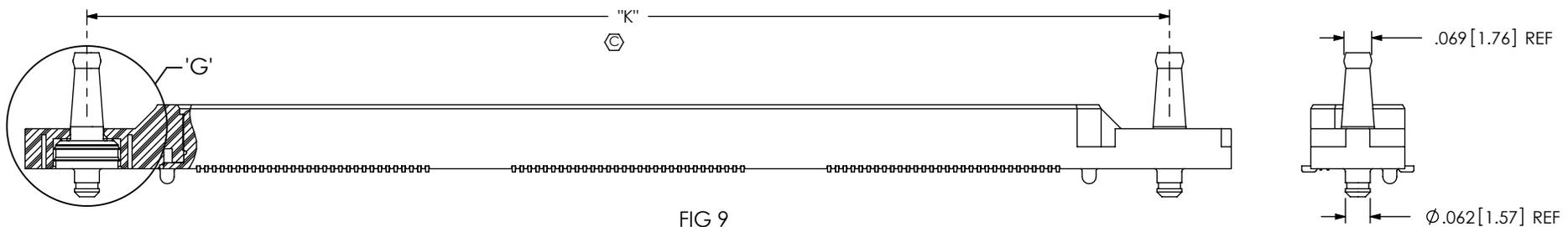
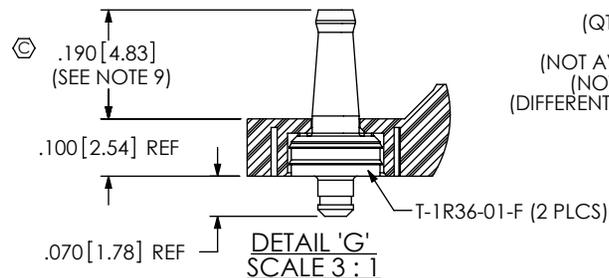


TABLE 9		
No OF POS	"J"	"K"
-020	1.438 [36.53]	1.129 [28.68]
-040	2.226 [56.53]	1.917 [48.68]
-060	3.013 [76.53]	2.704 [68.68]
-080	N/A	N/A
-100	N/A	N/A



**FIG 9**  
 -RT1: RETENTION OPTION  
 (QTH-060-01-X-D-DP-A-RT1 SHOWN)  
 (FOR -01 LEAD STYLE ONLY)  
 (NOT AVAILABLE WITH -LC OR -GP OPTIONS)  
 (NOT AVAILABLE ON -080 & -100 POS)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



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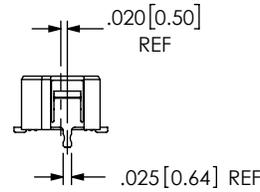
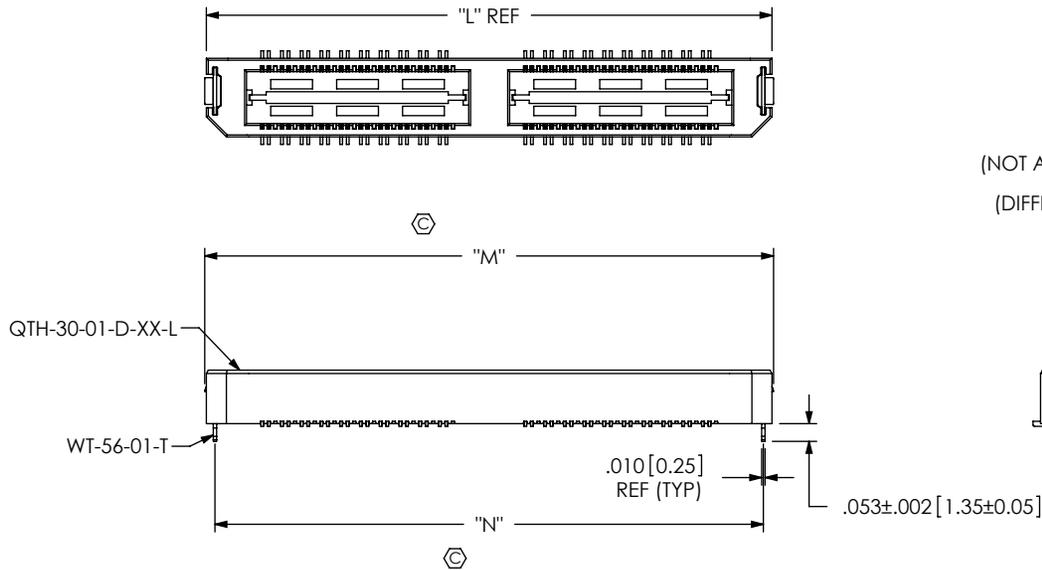
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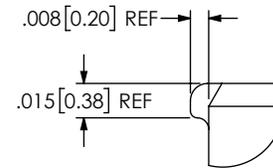
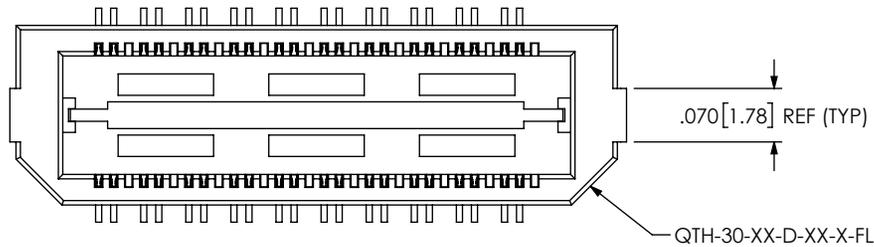
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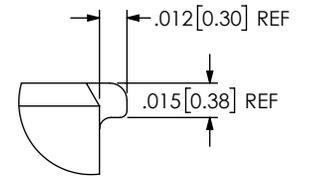
**TABLE 10**

No OF POS	"L"	"M"	"N"
-020	.906 [23.01]	.915 [23.24]	.854 [21.69]
-040	1.694 [43.01]	1.703 [43.24]	1.642 [41.69]
*-060	2.481 [63.02]	2.490 [63.25]	2.429 [61.70]
-080	N/A	N/A	N/A
-100	N/A	N/A	N/A

\* = NOT RELEASED



DETAIL 'H'  
SCALE 12:1



DETAIL 'J'  
SCALE 12:1

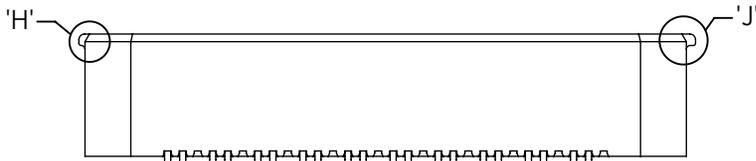


FIG 11  
 -FL: FRICTION LOCKS  
 (NOT AVAILABLE WITH -GP OPTION)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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