

DO NOT
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THIS PRINT

TABLE 1						MATED HEIGHT WITH QSE-01
STYLE	"B"	"C"	BODY	GROUND PLANE	TERMINAL	
-01	.1680 [4.267]	.1600 [4.064]	QTE-20-01-D-XX	T-1G1-01-XXX	T-1S39-01-XXX	.197 [5.00] REF
-02	.2861 [7.267]	.2781 [7.064]	QTE-20-02-D-XX	T-1G1-02-XXX	T-1S59-02-XXX	.315 [8.00] REF
-03	.4042 [10.267]	.3962 [10.063]	QTE-20-03-D-XX	T-1G1-03-XXX	T-1S39-03-XXX	.433 [11.00] REF

TABLE 3		
No OF POS	"A"	"D"
-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]

* = (SEE NOTE 14)

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

* = (SEE NOTE 14)

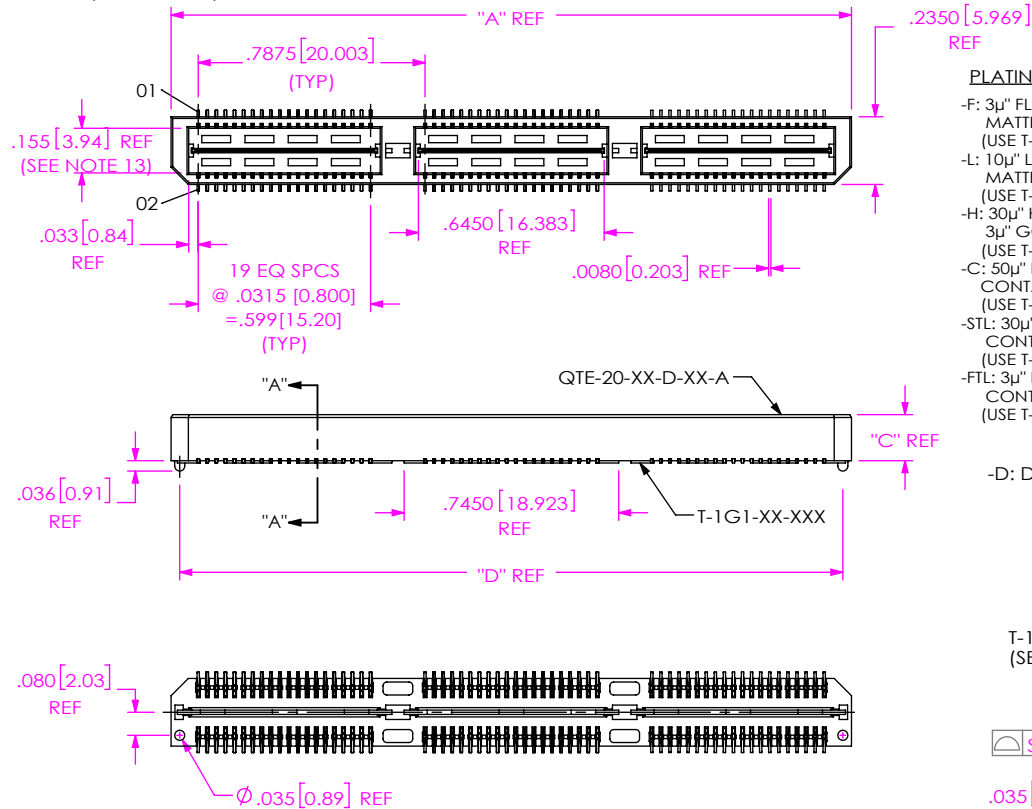


FIG 1

-A: ALIGNMENT PIN OPTION
(QTE-060-01-XXX-D-A SHOWN)
(STYLE -01, -02 & -03 ONLY)

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM TERMINAL RETENTION: 8 OZ.
3. MINIMUM GROUND PLANE RETENTION: 1 LB.
4. PARTS TO BE MOLDED TO POSITION.
5. MAXIMUM VARIANCE OF .002 [0.05].
6. DIMENSION APPLIES TO TERMINALS AND GROUND PLANE.
7. T-1SXX-XX-L CAN BE SUBSTITUTED FOR T-1SXX-XX-F.
8. NOTE DELETED.
9. GROUND PLANE PRESS HEIGHT MUST BE .003[0.08] LESS THAN THE MAX HEIGHT OR .001[0.03] GREATER THAN THE MINIMUM HEIGHT OF THE TERMINALS.
10. T-1R36 RETENTION TO BODY TO BE 1.0 LB.
11. NOTE DELETED.
12. 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.
13. PIN CAN EXTEND PAST WALL .003[0.08] MAX.
14. AVAILABLE FOR EXISTING CUSTOMERS ONLY.
15. NOTE DELETED.

QTE-XXX-XX-XXX-D-XXX

No OF POSITIONS

-020, -040, -060,
*-080, *-100
(PER ROW)
* = (SEE NOTE 14)

LEAD STYLE

-01: .1680 [4.267]
-02: .2861 [7.267]
-03: .4042 [10.267]
-04: .6010 [15.265]
-05: .7190 [18.263]
-06: .8370 [21.260]
-07: .9540 [24.231]
-08: 1.1510 [29.260]
-09: .5220 [13.258]
-10: .5606 [14.239]

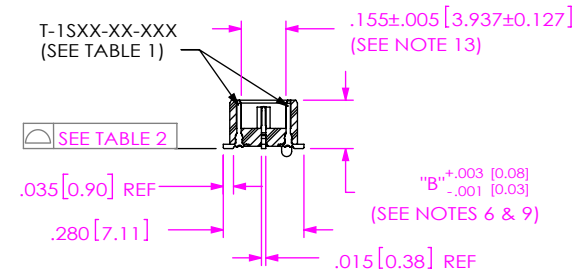
PLATING SPECIFICATION

-F: 3μ" FLASH GOLD IN CONTACT AREA,
MATTE TIN ON TAIL
(USE T-1SXX-XX-F, T-1G1-XX-F) (SEE NOTE 07)
-L: 10μ" LIGHT GOLD IN CONTACT AREA,
MATTE TIN ON TAIL
(USE T-1SXX-XX-L, T-1G1-XX-L)
-H: 30μ" HEAVY GOLD IN CONTACT AREA,
3μ" GOLD ON TAIL
(USE T-1SXX-XX-H, T-1G1-XX-G)
-C: 50μ" ELECTRO-POLISHED SELECTIVE IN
CONTACT AREA, MATTE TIN ON TAIL
(USE T-1SXX-XX-C, T-1G1-XX-L)
-STL: 30μ" HEAVY SELECTIVE GOLD IN
CONTACT AREA, TIN LEAD ON TAIL
(USE T-1SXX-XX-STL, T-1G1-XX-STL)
-FTL: 3μ" FLASH SELECTIVE GOLD IN
CONTACT AREA, TIN LEAD ON TAIL
(USE T-1SXX-XX-FTL, T-1G1-XX-FTL)

ROW SPECIFICATION

-D: DOUBLE (USE QTE-20-XX-D-XX
& QTEH-20-XX-D-XX)

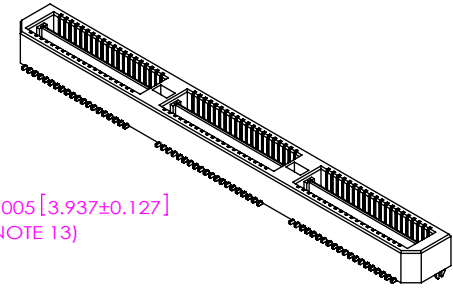
No OF BANKS



SECTION "A"-"A"

OPTION

-A: ALIGNMENT PINS
-LC: LOCKING CLIPS (SEE NOTE 12)
(USE LC-08-TM-01)
(SEE FIG 2, SHT 2)
-K: POLYIMIDE FILM
(USE K-DOT-.276-.375-.005, SEE FIG 3, SHT 2)
(N/A ON STYLE -07 & -08)
-TR: TAPE & REEL (SEE FIG 13, SHT 7)
(60 POS. MAX)
(40 POS. MAX FOR -GP OPTION)
(N/A ON STYLE -05, -06, -07, & -08)
-GP: GUIDE POSTS (SEE FIG 4, SHT 3)
(AVAILABLE ON -01 ONLY)
(USE QTE-20-01-D-XX-GP)
(T & R PACK: 40 POS. MAX.)
-SD: SCREW DOWN (SEE FIG 5, SHT 3)
(AVAILABLE ON -01 ONLY)
(USE QTE-20-01-D-XX-SD)
-FL: FRICTION LOCKS (SEE FIG 9, SHT 5)
(ONLY AVAILABLE ON -01 & -02)
(NOT AVAILABLE WITH -GP, -SD)
-RT1: RETENTION OPTION (SEE FIG 11, SHT 6)
(ONLY AVAILABLE ON -01 LEAD STYLE)
(MUST USE -A OPTION)
(USE QTE-20-01-D-XX-A-RT1 & T-1R36-01-F)
(NOT AVAILABLE WITH -LC, -GP, -SD, OR -FL)
(NOT AVAILABLE ON -100 POS)
-L: LATCHING OPTION (40 POS. MAX.)
(SEE FIG 12, SHT 6) (MUST USE -A OPTION)
(AVAILABLE ON -01 ONLY)
(NOT AVAILABLE WITH -LC, -GP, -SD, -FL,
OR -RT1)



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX: ±.01 [0.3] .XXX: ±.005 [0.13] .XXXX: ±.0020 [0.051]		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.	
MATERIAL: DO NOT SCALE DRAWING INSULATOR: LCP, UL94V-0; COLOR: BLACK TERMINAL: PHOS BRONZE GROUND PLANE: PHOS BRONZE		DESCRIPTION: .8mm DOUBLE ROW HS TERMINAL ASSEMBLY DWG. NO. QTE-XXX-XX-XXX-D-XXX BY: DEAN P 09-14-2010 SHEET 1 OF 7	

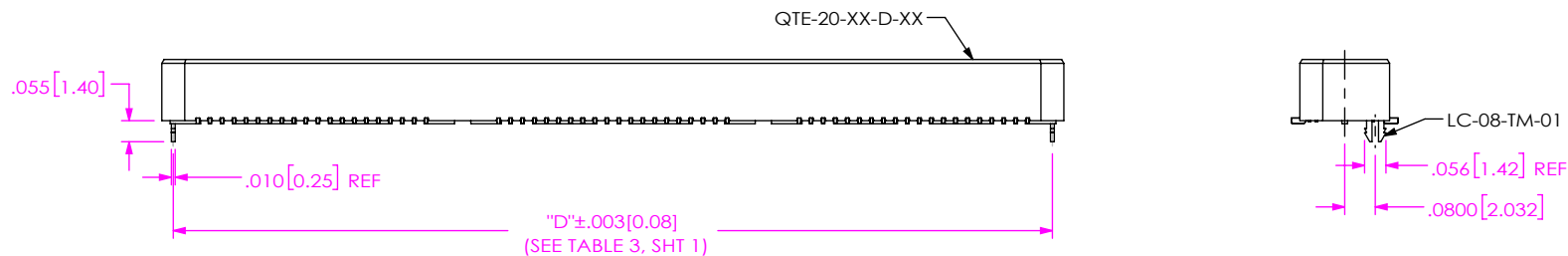


FIG 2
-LC: LOCKING CLIP OPTION
(QTE-060-01-XXX-D-LC SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 4								
No OF POS	"R"				"S"			
	-LC, -A, -FL	-GP, -SD	-RT1	-L	-LC, -A, -FL	-GP, -SD	-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]	N/A	1.043 [26.50]	1.302 [33.07]	1.369 [34.76]	N/A
*-080	3.150 [80.01]	3.668 [93.15]	3.801 [96.53]	N/A	1.437 [36.50]	1.696 [43.07]	1.762 [44.76]	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

* = (SEE NOTE 11 & 14)

TABLE 5	
STYLE	"T"
-01	.173 [4.39]
-02	.291 [7.39]
-03	.409 [10.39]
-04	.605 [15.37]
-05	.721 [18.31]
-06	.840 [21.33]
-09	.528 [13.41]
-10	.567 [14.37]

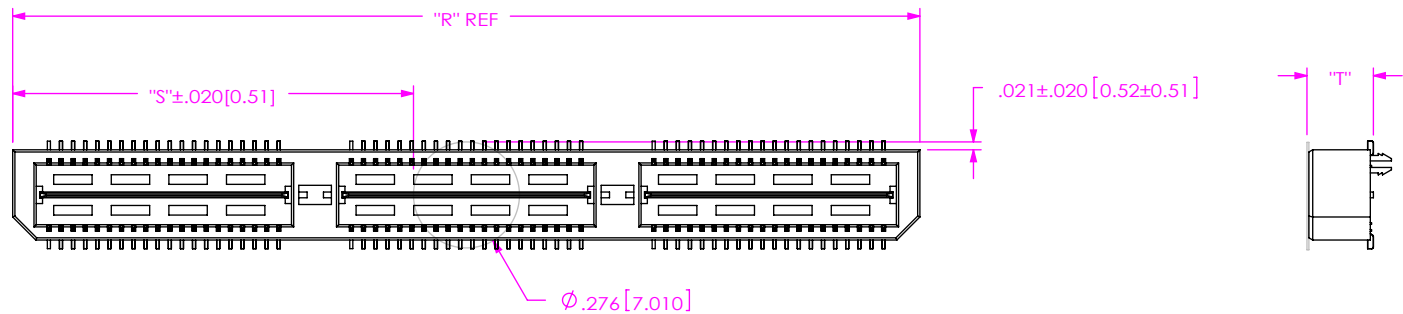
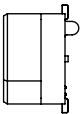
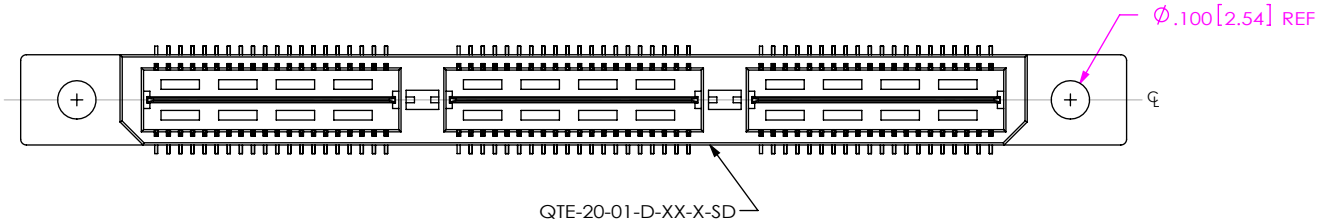
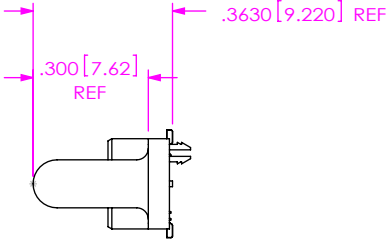
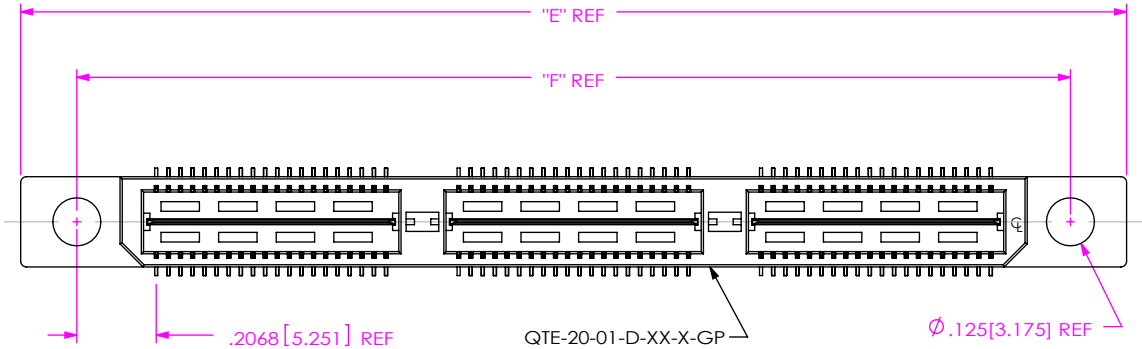


FIG 3
-K: POLYIMIDE FILM PAD
(USE K-DOT-.276-.375-.005)

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	<p>DESCRIPTION: .8mm DOUBLE ROW HS TERMINAL ASSEMBLY</p> <p>DWG. NO. QTE-XXX-XX-XXX-D-XXX</p>	
	BY: DEAN P	09-14-2010 SHEET 2 OF 7

TABLE 6		
POS	"E"	"F"
-020	1.305 [33.15]	1.013 [25.72]
-040	2.093 [53.15]	1.800 [45.72]
-060	2.880 [73.15]	2.588 [65.72]
*-080	3.668 [93.15]	3.375 [85.73]
*-100	4.455 [113.16]	4.163 [105.73]

* = (SEE NOTE 14)



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	DESCRIPTION: .8mm DOUBLE ROW HS TERMINAL ASSEMBLY DWG. NO. QTE-XXX-XX-XXX-D-XXX BY: DEAN P 09-14-2010 SHEET 3 OF 7	

FIG 6
QTE-060-04-X-D-LC SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(STYLES -04, -05 & -06)

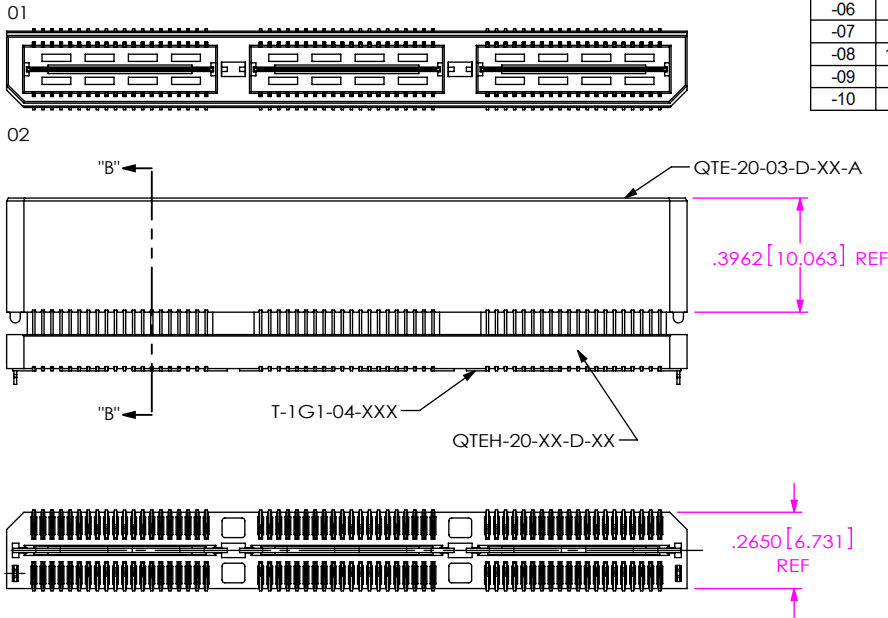


TABLE 7						MATED HEIGHT WITH QSE-01
STYLE	"B"	GROUND PLANE	TERMINAL	BOTTOM SPACER BODY	TOP BODY	
-04	.6010 [15.265]	T-1G1-04-XXX	T-1S41-04-XXX	QTEH-20-01-D-XX-X	QTE-20-03-D-XX-X	.630[16.00] REF
-05	.7190 [18.263]	T-1G1-05-XXX	T-1S41-05-XXX	QTEH-20-01-D-XX-X	QTE-20-03-D-XX-X	.748[19.00] REF
-06	.8370 [21.260]	T-1G1-06-XXX	T-1S41-06-XXX	QTEH-20-02-D-XX-X	QTE-20-03-D-XX-X	.866[22.00] REF
-07	.9540 [24.232]	T-1G17-01-XXX	T-1S61-21-XXX	QTEH-20-04-D-XX-X	QTE-20-02-D-XX-X	.984[25.00] REF
-08	1.1510 [29.235]	T-1G17-02-XXX	T-1S61-22-XXX	QTEH-20-04-D-XX-X	QTE-20-02-D-XX-X	1.181[30.00] REF
-09	.5220 [13.259]	T-1G1-09-XXX	T-1S60-09-XXX	QTEH-20-01-D-XX-X	QTE-20-02-D-XX-X	.551[14.00] REF
-10	.5606 [14.239]	T-1G1-10-XXX	T-1S60-10-XXX	QTEH-20-01-D-XX-X	QTE-20-02-D-XX-X	.591[15.00] REF

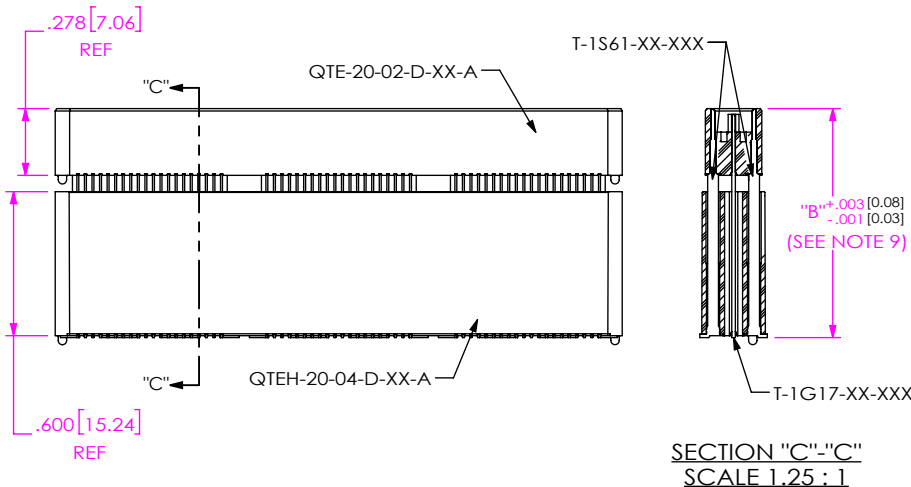
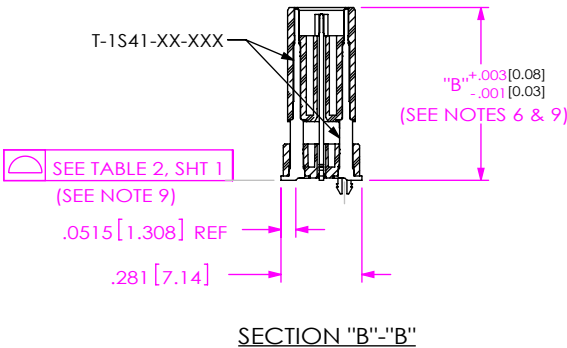


FIG 7
QTE-060-07-X-D-A SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(STYLES -07 & -08)

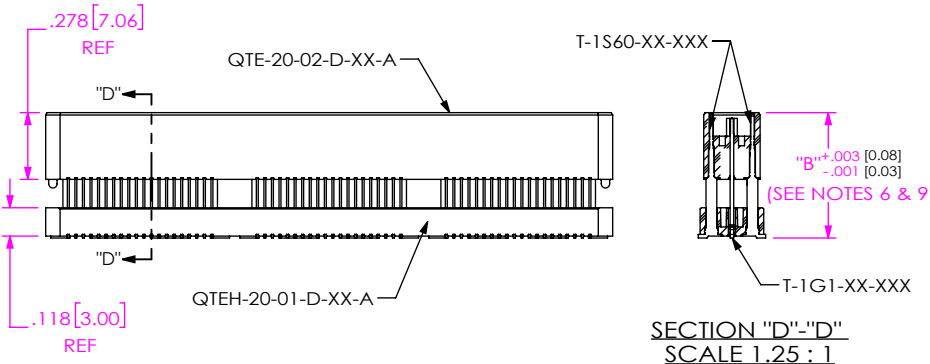


FIG 8
QTE-060-09-X-D-A SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(STYLES -09 & -10)

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

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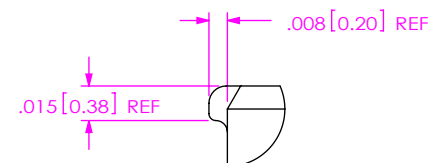
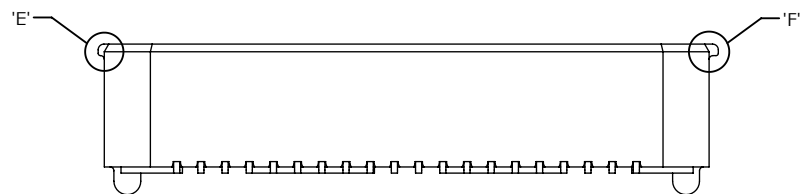
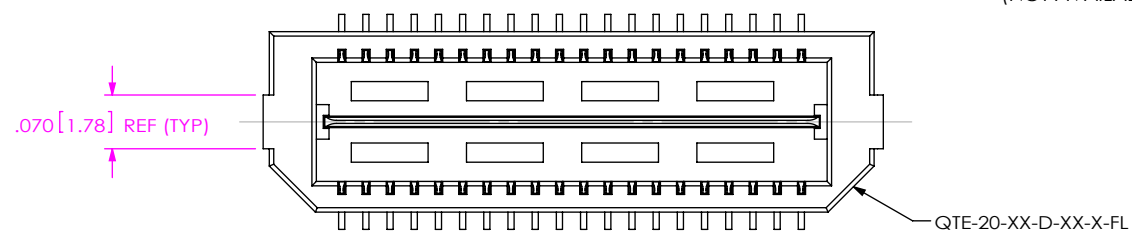
SHEET SCALE: 1.5:1

DESCRIPTION:
.8mm DOUBLE ROW HS TERMINAL ASSEMBLY

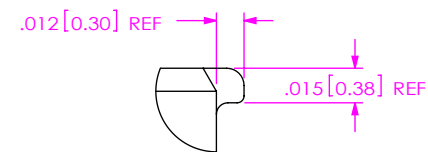
DWG. NO.
QTE-XXX-XX-XXX-D-XXX

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FIG 9
 -FL: FRICTION LOCKS
 (QTE-020-01-XXX-D-A-FL SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (ONLY AVAILABLE ON -01 & -02 LEAD STYLES)
 (NOT AVAILABLE WITH -GP, -SD OPTIONS)



DETAIL 'E'
 SCALE 12:1



DETAIL 'F'
 SCALE 12:1

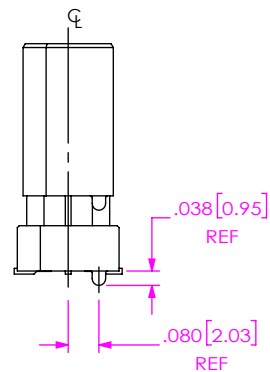
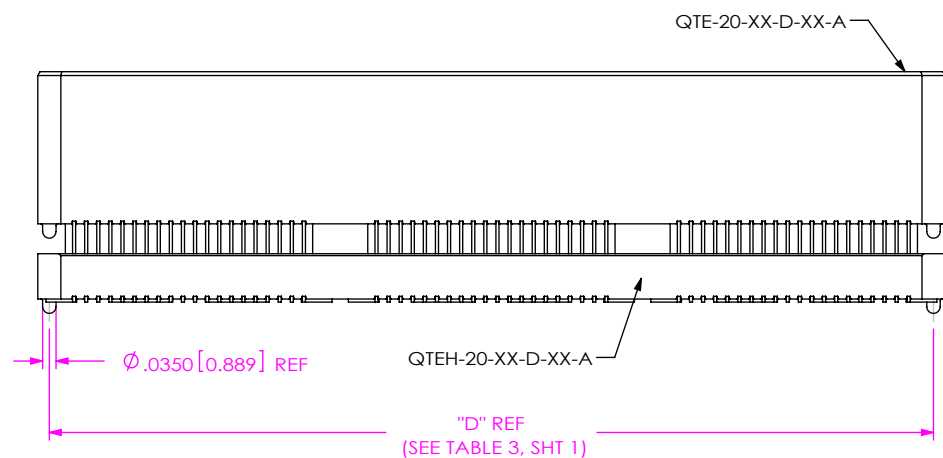


FIG 10
 (QTE-020-04-XXX-D-A SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (STYLES -04, -05, -06, -07, -08, -09 & -10, SEE TABLE 7, SHT 4)

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 .8mm DOUBLE ROW HS TERMINAL ASSEMBLY

DWG. NO.
QTE-XXX-XX-XXX-D-XXX

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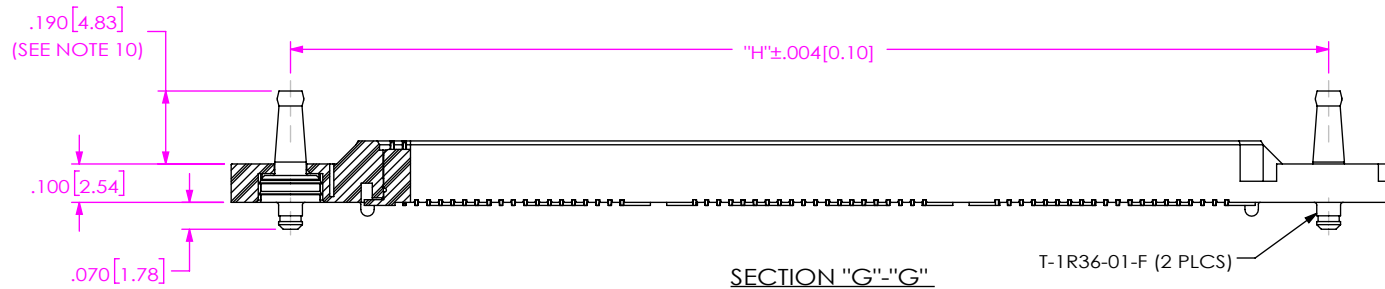
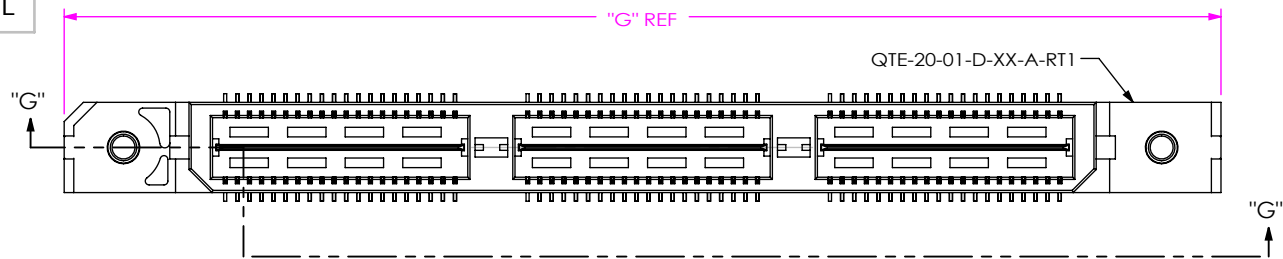


FIG 11
-RT1: RETENTION OPTION
(QTE-060-01-XXX-D-A-RT1 SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(ONLY AVAILABLE ON -01 LEAD STYLE) (MUST USE -A OPTION)
(NOT AVAILABLE WITH -LC, -GP, -SD, OR -FL OPTIONS)
(NOT AVAILABLE ON -100 POSITION)

TABLE 8		
POS	"G"	"H"
-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	3.801 [96.53]	3.492 [88.68]
*-100	N/A	N/A

* = (SEE NOTE 14)

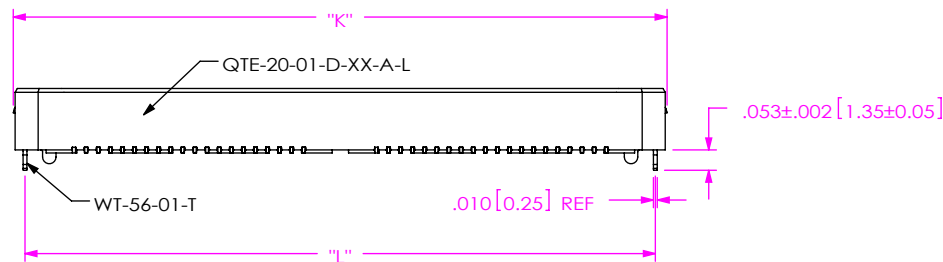
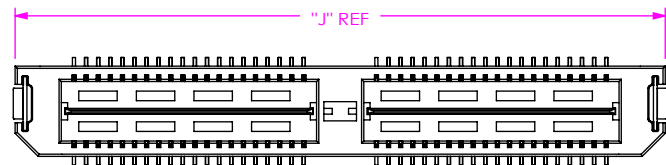
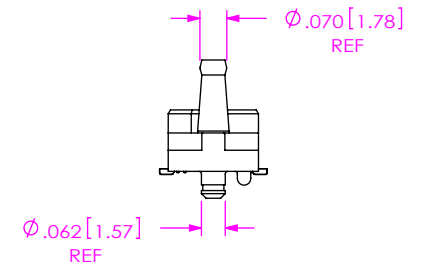
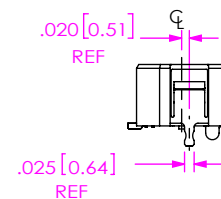


FIG 12
-L: LATCHING OPTION
(QTE-040-01-XXX-D-A-L SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(40 POS. MAX.) (MUST USE -A OPTION)
(AVAILABLE ON -01 LEAD STYLE ONLY)
(NOT AVAILABLE WITH -LC, -GP, -SD, -FL, OR -RT1)

TABLE 9			
POS	"J"	"K"	"L"
-020	.906 [23.00]	.915 [23.24]	.854 [21.69]
-040	1.693 [43.00]	1.703 [43.24]	1.642 [41.69]
-060	N/A	N/A	N/A
*-080	N/A	N/A	N/A
*-100	N/A	N/A	N/A

* = (SEE NOTE 14)



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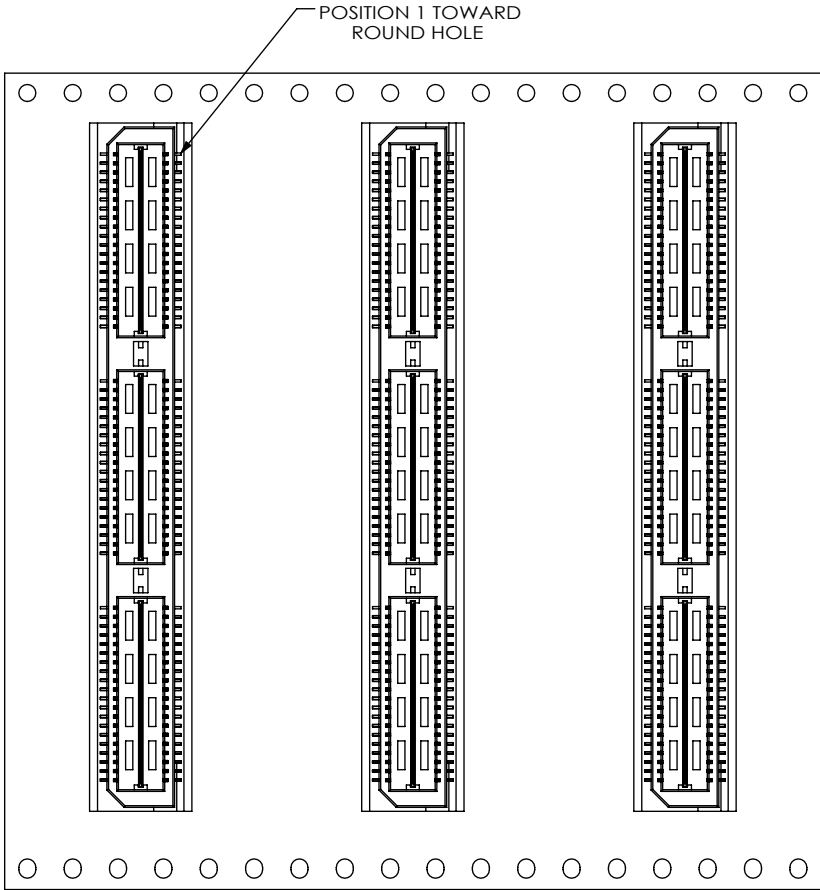
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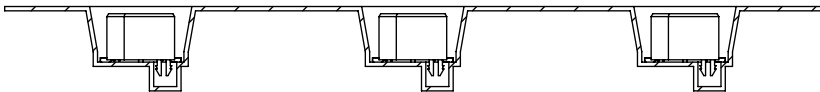
DESCRIPTION:
.8mm DOUBLE ROW HS TERMINAL ASSEMBLY
DWG. NO. QTE-XXX-XX-XXX-D-XXX

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FIG 13
-TR: PACKAGING OPTION
(QTE-060-01-XXX-D-LC-TR SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(60 POS MAX)
(40 POS MAX WITH -GP OPTION)
(NOT AVAILABLE ON LEAD SYTLES -05, -06, -07 & -08)



USER DIRECTION OF UN-REELING —>
POCKET NOT DETAILED



CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE	
ASSEMBLY OPERATION	IN PROCESS INSPECTION
FILL T-1SXX	C1, C2, C4, C5
ADD -LC OPTION	C14
ADD -RT1 OPTION	C6, C8
ADD -L OPTION	C9, C10, C11
ADD -K OPTION	C16, C15
CPC'S INTENTIONALLY DELETED: C7, C12	

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	<p>DESCRIPTION: .8mm DOUBLE ROW HS TERMINAL ASSEMBLY</p> <p>DWG. NO. QTE-XXX-XX-XXX-D-XXX</p>	
	BY: DEAN P	SHEET 7 OF 7