

◇ = ASO ONLY (APPLICATION SPECIFIC ORDER)

STYLE	"B"	"C"	BODY	GROUND PLANE	TERMINAL	MATED HEIGHT WITH QSE-DP-01
-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

No OF POS	"A"	"D"
-014	.788 [20.00]	.728 [18.48]
-028	1.575 [40.01]	1.515 [38.48]
-042	2.363 [60.01]	2.303 [58.48]
*-056	3.150 [80.01]	3.090 [78.49]
*-070	3.938 [100.01]	3.878 [98.49]

* = SEE NOTE 15

No OF POSITIONS	COPLANARITY (INCLUDES GROUND PLANE)
-014 THRU -042	.004 [0.10]
*-056 THRU *-070	.006 [0.15]

* = SEE NOTE 15

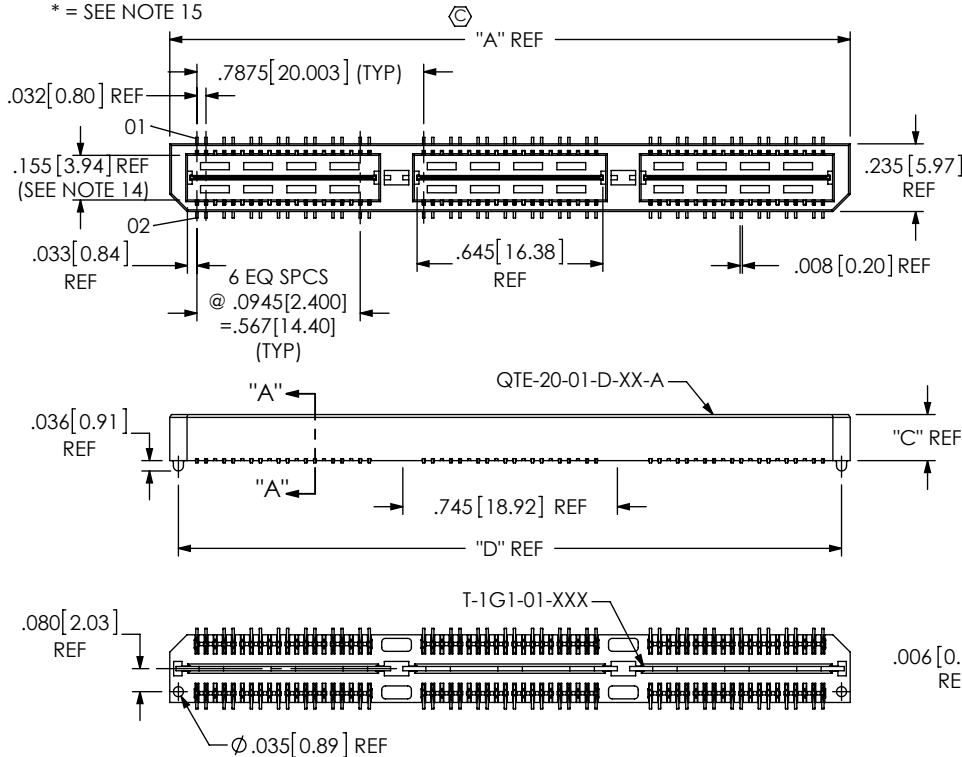


FIG 1

-A: ALIGNMENT PIN OPTION (QTE-042-01-XXX-D-DP-A SHOWN) (STYLE -01, -02 & -03 ONLY)

QTE-XXX-XX-XXX-D-DP-XXX

No OF POSITIONS

- 014, -028, -042, *-056, *-070 (PER ROW) (*SEE NOTE 15)

LEAD STYLE

- 01: .1680 [4.267] (SEE FIG 1)
- 02: .2861 [7.264] (SEE FIG 1)
- 03: .4042 [1.123] (SEE FIG 1)
- ◇ -04: .600 [15.24] (SEE FIG 4, SHT 3)
- ◇ -05: .718 [18.237] (SEE FIG 4, SHT 3)
- ◇ -06: .835 [21.209] (SEE FIG 4, SHT 3)
- ◇ -07: .954 [24.232] (SEE FIG 4, SHT 3)
- ◇ -08: 1.151 [29.24] (SEE FIG 4, SHT 3)
- ◇ -09: .522 [13.258] (SEE FIG 4, SHT 3)
- ◇ -10: .5606 [14.239] (SEE FIG 4, SHT 3)

PLATING SPECIFICATION

- F: 3µ" FLASH GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1SXX-XX-F, T-1G1-XX-F) (SEE NOTE 9)
- 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)

OPTION

- A: ALIGNMENT PINS
- LC: LOCKING CLIPS (SEE NOTE 13) (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 STYLES -07 & -08)
- GP: GUIDE POSTS (AVAILABLE ON -01 ONLY) (USE QTE-20-01-D-XX-X-GP) (SEE FIG 4, SHT 3)
- TR: TAPE & REEL (42 POS. MAX) (NOT AVAILABLE ON -05, -06, -07, -08 LEAD STYLES) (028 POS MAX FOR -GP OPTION)
- RT1: RETENTION OPTION (SEE FIG 9, SHT 5) (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, OR -L) (NOT AVAILABLE ON -056 & -070 POS)
- L: LATCHING OPTION (28 POS. MAX.) (SEE FIG 10, SHT 5) (MUST USE -A OPTION) (AVAILABLE ON -01 ONLY) (NOT AVAILABLE WITH -LC, -GP, OR -RT1)

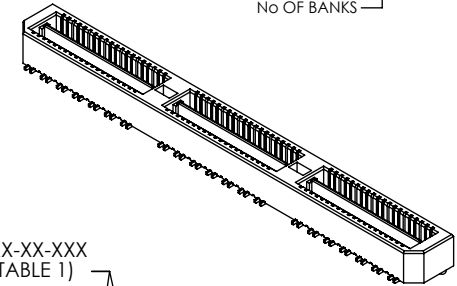
BODY STYLE

- DP: DIFFERENTIAL PAIRS

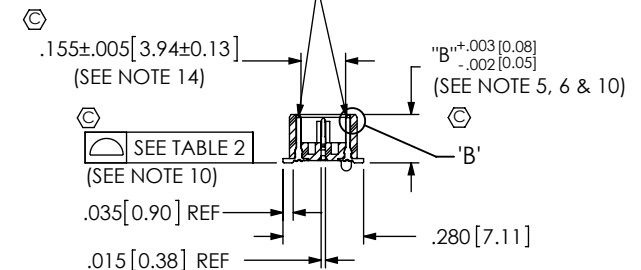
ROW SPECIFICATION

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

No OF BANKS



T-1SXX-XX-XXX (SEE TABLE 1)



DETAIL 'B' SCALE 6:1

SECTION "A"- "A"

NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM TERMINAL RETENTION: 5 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. DELETED.
8. DELETED.
9. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
10. 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.
11. T-1R36 RETENTION TO BODY TO BE 1.0 LBF.
12. NOTE DELETED.
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. MAXIMUM PIN CAN EXTEND PAST WALL: .003 [0.08]
15. AVAILABLE FOR EXISTING CUSTOMERS ONLY.

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

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 e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1.5:1
 INSULATOR: LCP, UL94V-0; COLOR: BLACK
 TERMINAL: PHOS BRONZE
 GROUND PLANE: PHOS BRONZE

DESCRIPTION: .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY
 DWG. NO. QTE-XXX-XX-XXX-D-DP-XXX
 BY: DEAN P 4/28/2000 SHEET 1 OF 5

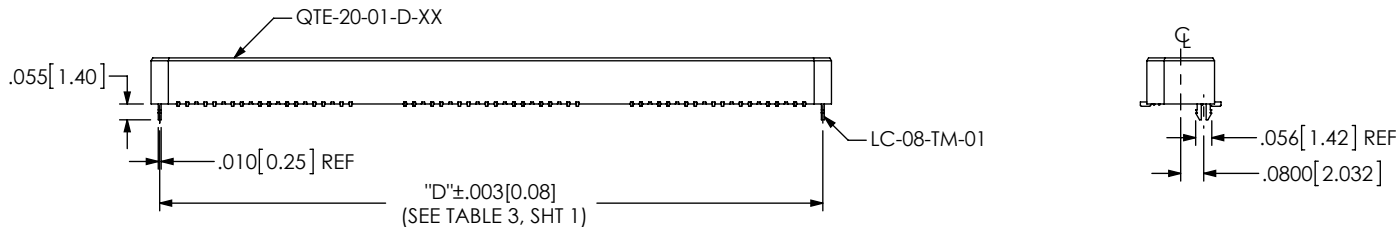


FIG 2
 -LC: LOCKING CLIP OPTION
 (QTS-042-01-XXX-D-DP-LC SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

No OF POS	"R"				"S"			
	-LC, -A, -FL	-GP, -SD	-RT1	-L	-LC, -A, -FL	-GP, -SD	-RT1	-L
-014	.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]
-028	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]
-042	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
*-056	3.150 [80.01]	3.668 [93.15]	N/A	N/A	1.437 [36.50]	1.696 [43.07]	N/A	N/A
*-070	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 15

STYLE	"T"
-01	.173[4.39]
-02	.291[7.39]
-03	.409[10.39]
-04	.605[15.37]
-05	.723[18.36]
-06	.841[21.36]
-09	.527[13.39]
-10	.567[14.37]

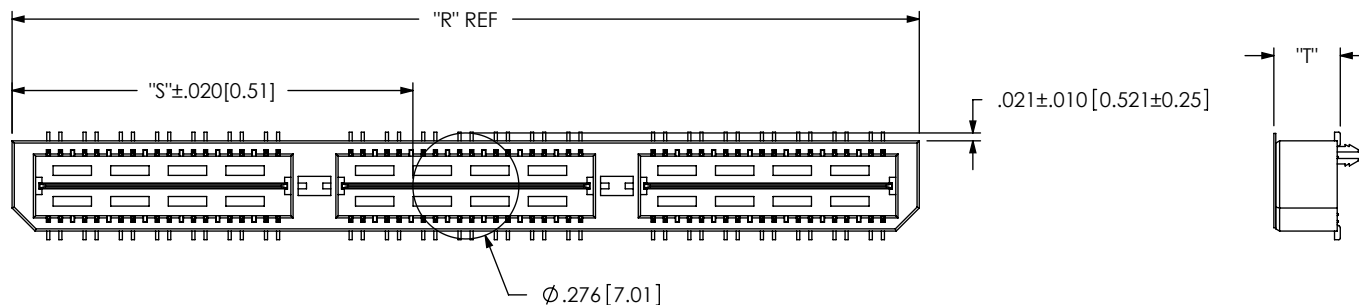



FIG 3
 -K: POLYIMIDE FILM PAD
 (USE K-DOT-.276-.375-.005)

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	<p>DESCRIPTION: .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY</p>	
	<p>DWG. NO. QTE-XXX-XX-XXX-D-DP-XXX</p>	
<p>BY: DEAN P 4/28/2000</p>		<p>SHEET 2 OF 5</p>

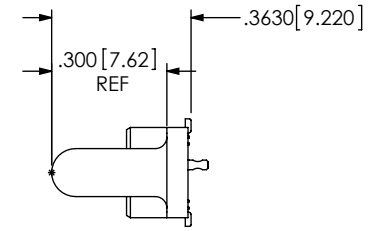
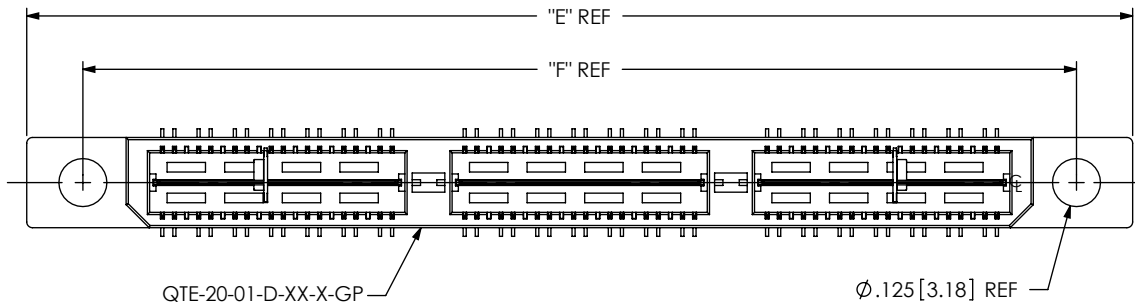


FIG 4
 -GP: GUIDE POST OPTION
 (QTE-042-01-XXX-D-DP-GP SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (AVAILABLE ON STYLE -01 ONLY)

TABLE 6

POS	"E"	"F"
-014	1.305 [33.15]	1.013 [25.72]
-028	2.093 [53.15]	1.800 [45.72]
-042	2.880 [73.15]	2.588 [65.72]
*-056	3.668 [93.15]	3.375 [85.73]
*-070	4.455 [113.16]	4.163 [105.73]

* = SEE NOTE 15

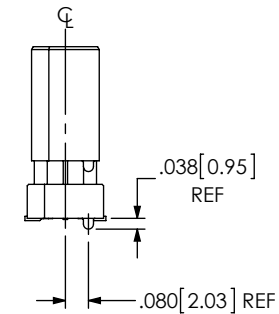
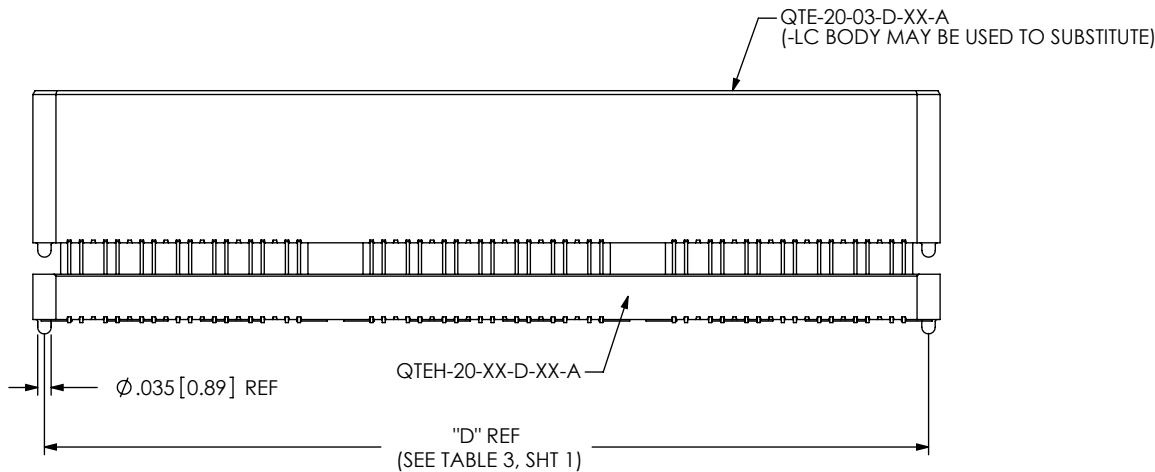


FIG 5
 (QTE-020-04-XXX-D-A SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (STYLES -04, -05, -06, -07, -08, -09 & -10, SEE TABLE 7, SHT 4)

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	<p>DESCRIPTION: .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY</p>	
	<p>DWG. NO. QTE-XXX-XX-XXX-D-DP-XXX</p>	
<p>BY: DEAN P 4/28/2000</p>		<p>SHEET 3 OF 5</p>

TABLE 7						MATED HEIGHT WITH QSE-DP-01
STYLE	"B"	GROUND PLANE	TERMINAL	FILLER BODY	SPACER BODY	
-04	.600[15.24]	T-1G1-04-XXX	T-1S41-04-XXX	QTE-20-03-D-XX	QTEH-20-01-D-XX-X	.630 [16.00] REF
-05	.718[18.237]	T-1G1-05-XXX	T-1S41-05-XXX	QTE-20-03-D-XX	QTEH-20-01-D-XX-X	.748 [19.00] REF
-06	.835[21.209]	T-1G1-06-XXX	T-1S41-06-XXX	QTE-20-03-D-XX	QTEH-20-02-D-XX-X	.866 [22.00] REF
-07	.954[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	1.151[29.24]	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	.522[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

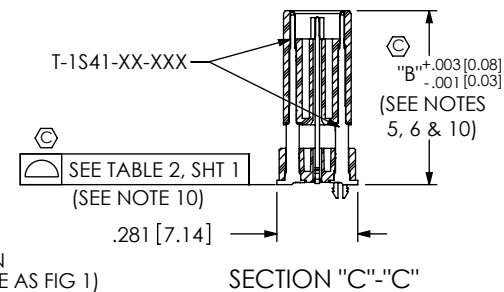
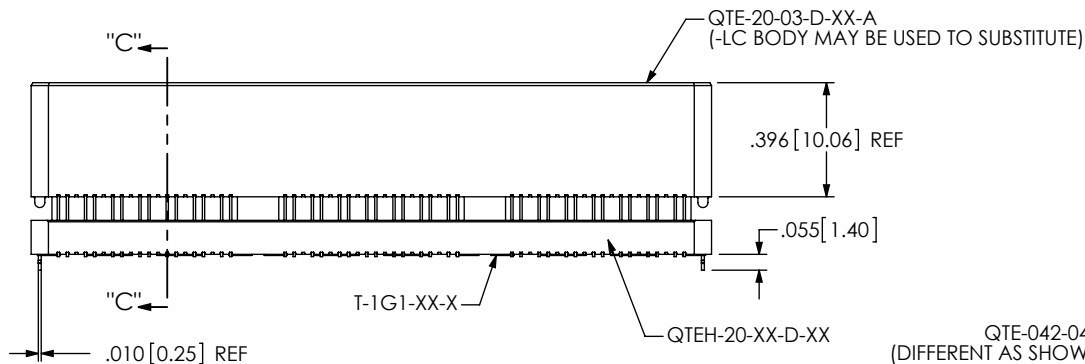
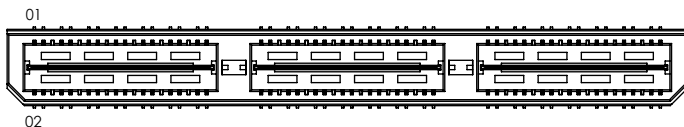


FIG 6
QTE-042-04-X-D-DP-LC SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(STYLES -04, -05 & -06)

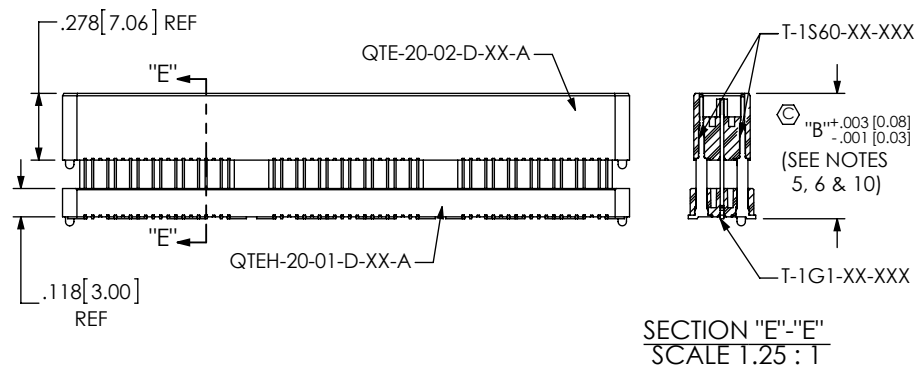
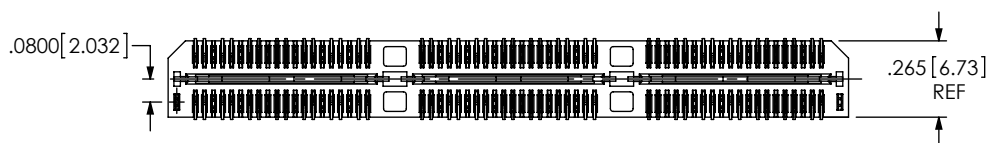


FIG 8
QTE-042-09-X-D-DP-A SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(STYLES -09 & -10)

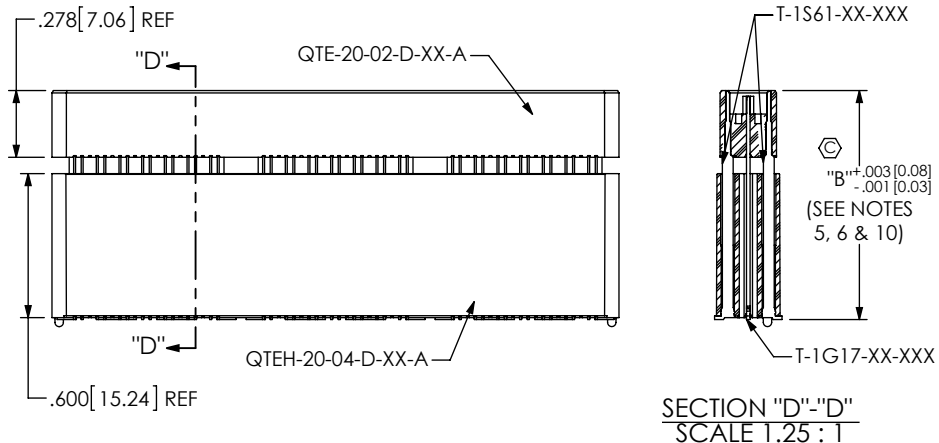


FIG 7
QTE-042-07-X-D-DP-A SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(STYLES -07 & -08)

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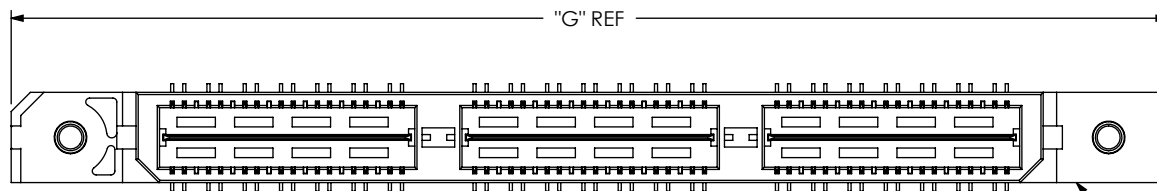
DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

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

BY: DEAN P 4/28/2000 SHEET 4 OF 5

TABLE 8		
POS	"G"	"H"
-014	1.438 [36.53]	1.129 [28.68]
-028	2.226 [56.53]	1.917 [48.68]
-042	3.013 [76.53]	2.704 [68.68]
*-056	N/A	N/A
*-070	N/A	N/A

* = SEE NOTE 15



QTE-20-01-D-XX-A-RT1

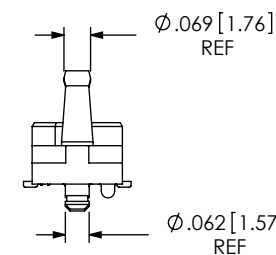
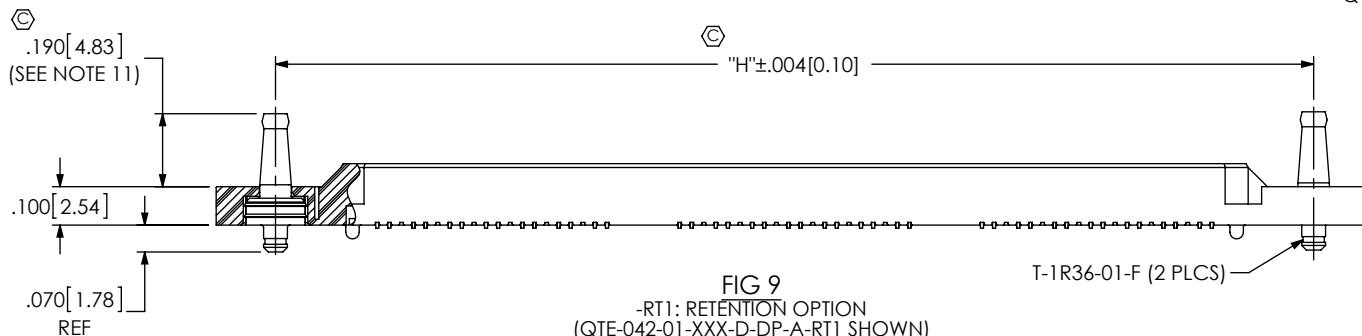


FIG 9
 -RT1: RETENTION OPTION
 (QTE-042-01-XXX-D-DP-A-RT1 SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (ONLY AVAILABLE ON -01 LEAD STYLE) (MUST USE -A OPTION)
 (NOT AVAILABLE WITH -LC, -GP, OR -L OPTIONS)
 (NOT AVAILABLE ON *-056 & *-070 POSITIONS)
 * = SEE NOTES 12 & 15

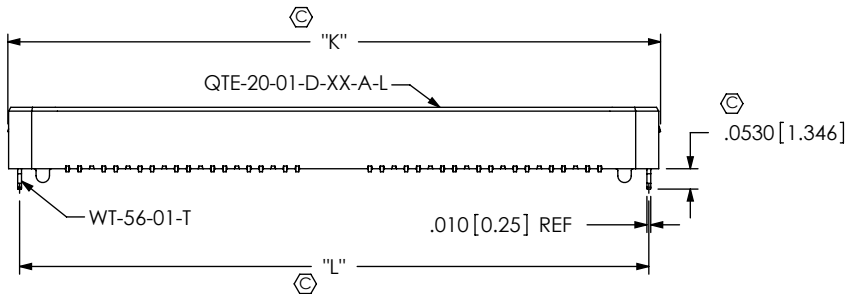
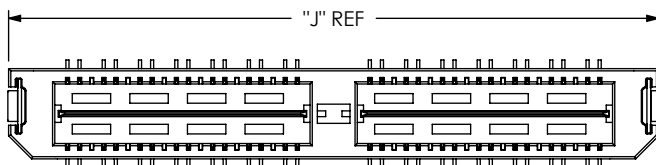
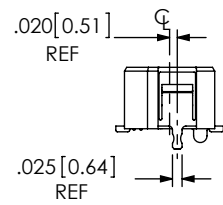


TABLE 9			
POS	"J"	"K"	"L"
-014	.906 [23.00]	.915 [23.24]	.854 [21.69]
-028	1.693 [43.00]	1.703 [43.24]	1.642 [41.69]
-042	N/A	N/A	N/A
*-056	N/A	N/A	N/A
*-070	N/A	N/A	N/A

* = SEE NOTE 15

CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE	
ASSEMBLY OPERATION	IN PROCESS INSPECTION
FILL T-1SXX	C1, C2, C3, C4, C5, C11, C12
ADD -LC OPTION	C13
ADD -RT1 OPTION	C6, C7
ADD -L OPTION	C8, C9, C10
ADD -K OPTION	C14, C15

FIG 10
 -L: LATCHING OPTION
 (QTE-028-01-XXX-D-DP-A-L SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (28 POS MAX) (MUST USE -A OPTION)
 (AVAILABLE ON -01 LEAD STYLE ONLY)
 (NOT AVAILABLE WITH -LC, -GP, OR -RT1)



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 .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

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

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