

◇ = ASO ONLY (APPLICATION SPECIFIC ORDER)

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

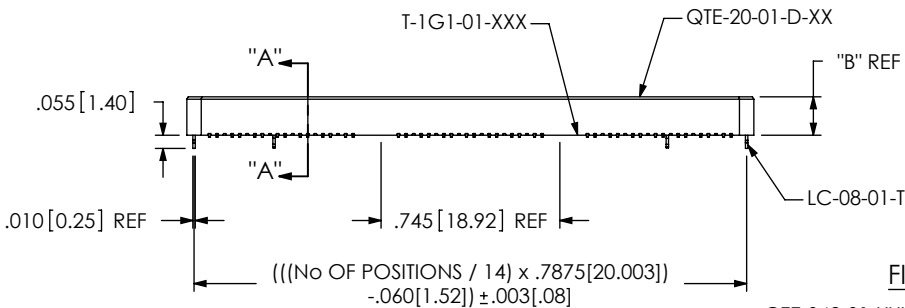
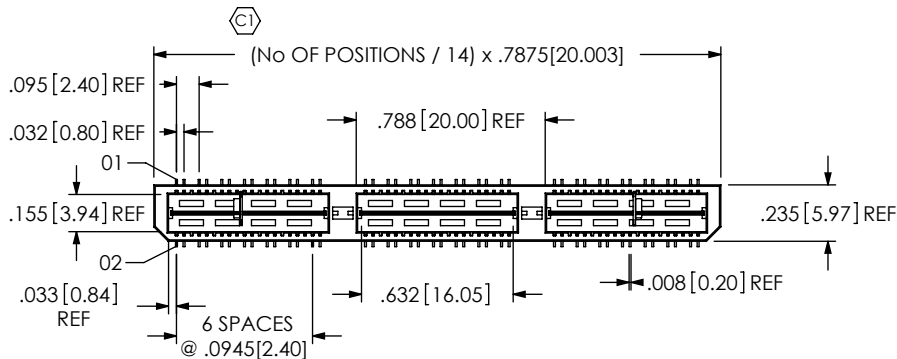


FIG. 1

QTE-042-01-XXX-D-DP-LC SHOWN

-LC: LOCKING CLIP OPTION SHOWN

-A: ALIGNMENT PIN OPTION SHOWN (STYLES -01, -02 & -03)

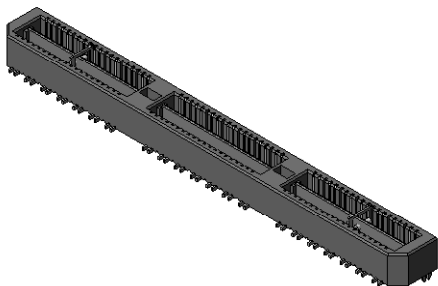
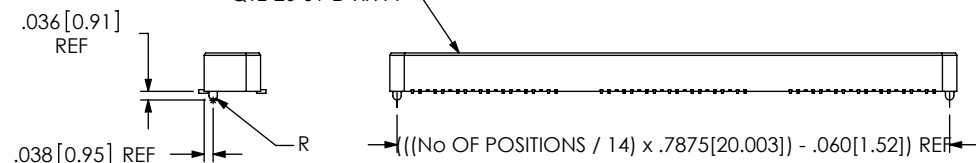


TABLE 2	
No OF POSITIONS	COPLANARITY (INCLUDES GROUND PLANE)
-014 THRU -042	.0040 [.10]
-056 THRU -070	.0060 [.15]

TABLE 1						MATED HEIGHT WITH QSE-DP-01
STYLE	"A"	"B"	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

No OF POSITIONS
-014, -028, -042,
-056, -070
(PER ROW)
(*SEE NOTE 12)

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: FLASH SELECTIVE GOLD WITH MATTE TIN TAILS (USE T-1SXX-XX-F, T-1G1-XX-F)
- L: LIGHT SELECTIVE GOLD WITH MATTE TIN TAILS (USE T-1SXX-XX-L, T-1G1-XX-L)
- H: HEAVY GOLD WITH FLASH GOLD TAILS (USE T-1SXX-XX-H, T-1G1-XX-G)
- C: ELECTRO-POLISHED SELECTIVE (USE T-1SXX-XX-C, T-1G1-XX-L)
- STL: HEAVY SELECTIVE GOLD WITH TIN LEAD TAILS (USE T-1SXX-XX-STL, T-1G1-XX-STL)
- FTL: FLASH SELECTIVE GOLD WITH TIN LEAD TAILS (USE T-1SXX-XX-FTL, T-1G1-XX-FTL)

OPTION

- A: ALIGNMENT PINS (USE QTE-20-01-D-XX-X-GP)
- LC: LOCKING CLIPS (SEE NOTE 13) (USE LC-08-TM-01)
- K: POLYIMIDE FILM (USE K-DOT-.276-.375-.005) (SEE FIG. 2, 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. 3, SHT. 2)
- 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. 7, SHEET 4) (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 -056 & -070 POS)
- AG -L: LATCHING OPTION (28 POS. MAX.) (SEE FIG. 8, SHEET 5) (MUST USE -A OPTION) (AVAILABLE ON -01 ONLY) (NOT AVAILABLE WITH -LC, -GP, -SD, -FL OR -RT1)

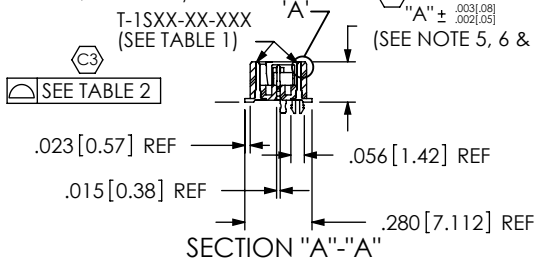
BODY STYLE

-DP: DIFFERENTIAL PAIRS

ROW SPECIFICATION

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

No OF BANKS



SECTION "A"-"A"

DETAIL 'A' SCALE 6:1

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 [.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. 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.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
DECIMALS: .XX: ±.01 [.3]
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1.25:1

INSULATOR: LCP, BLACK
TERMINAL: PHOS BRONZE
GROUND PLANE: PHOS BRONZE

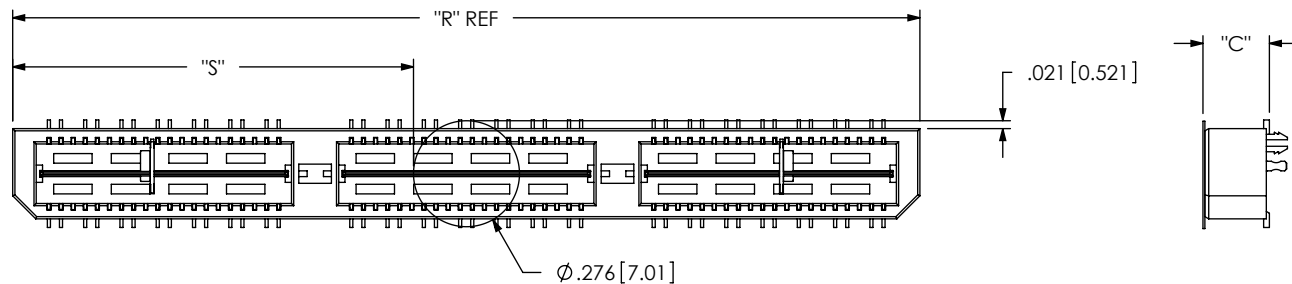
DESCRIPTION: .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

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

BY: DEAN P 4/28/2000 SHEET 1 OF 5

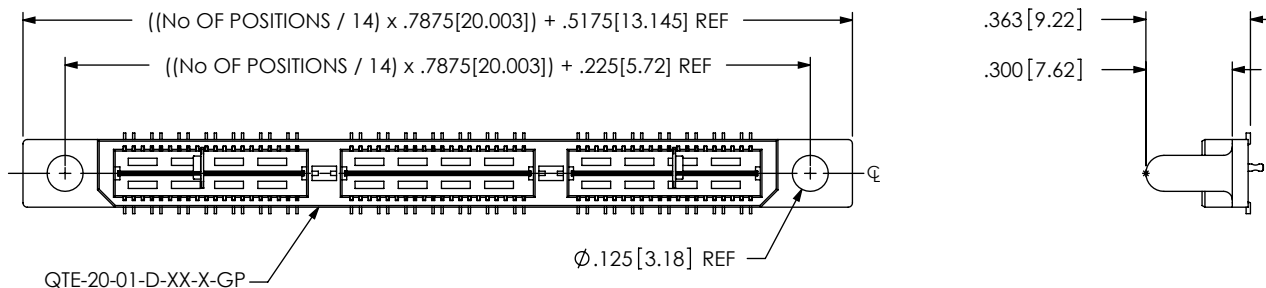
FIG. 2
 -K: POLYIMIDE FILM PAD
 [USE K-DOT-.276-.375-.005]

NOTE: "R" = (No OF POSITIONS / 14) x .7875[20.003]
 "S" = (("R" - .276[7.01]) / 2) ±.020[.51]

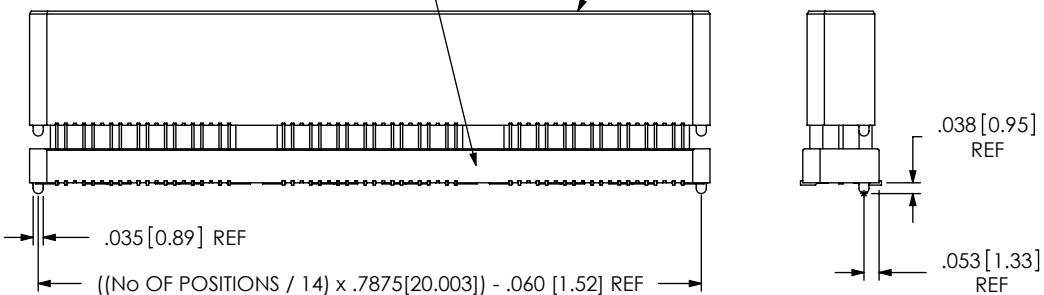


STYLE	"C"
-01	.173[4.39]
-02	.291[7.39]
-03	.409[10.39]
-04	.605[15.37]
-05	.723[18.36]
-06	.841[21.36]
-09	.527[13.39]
-10	.567[14.37]

FIG. 3
 -GP: GUIDE POST OPTION
 (-01 LEAD STYLE ONLY)
 (SAME AS FIG. 1, UNLESS OTHERWISE STATED)



QTEH-20-XX-D-XX-A
 QTE-20-03-D-XX-A
 (-LC BODY MAY BE USED TO SUBSTITUTE)



-A: ALIGNMENT PIN OPTION
 (STYLES -04, -05, -06, -07, -08, -09, -10)

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 .8mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

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

BY: DEAN P 4/28/2000 SHEET 2 OF 5

TABLE 4						MATED HEIGHT WITH QSE-DP-01
STYLE	"D"	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

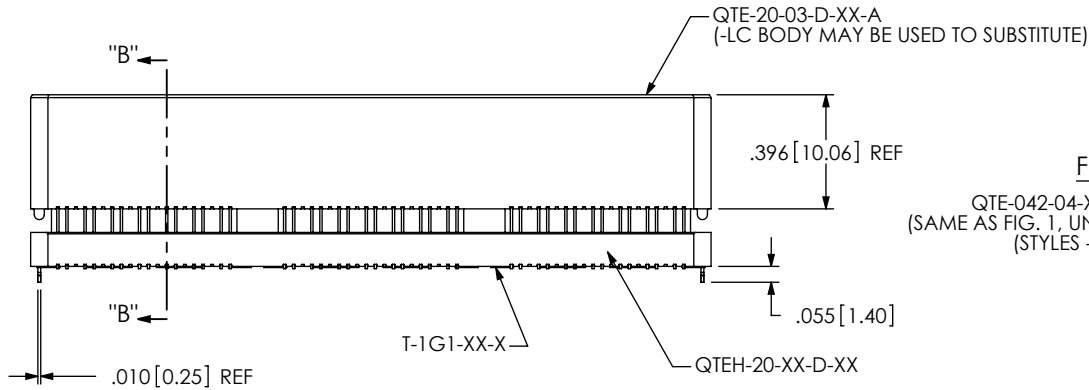
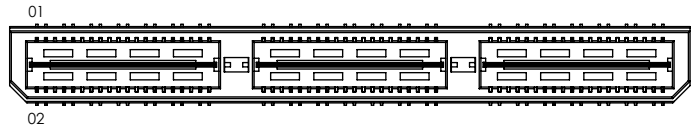
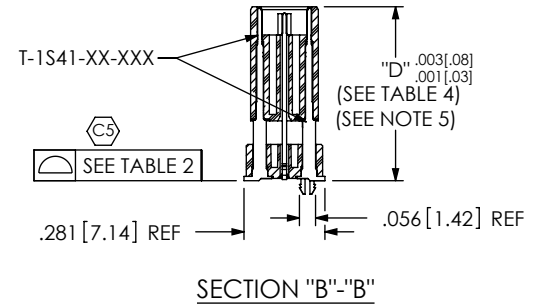


FIG. 4
QTE-042-04-X-D-DP-LC SHOWN
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)
(STYLES -04, -05, & -06)



-LC: LOCKING CLIP OPTION SHOWN

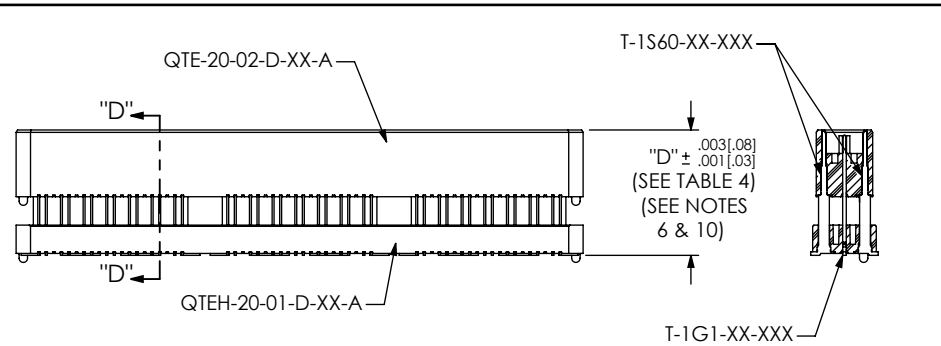
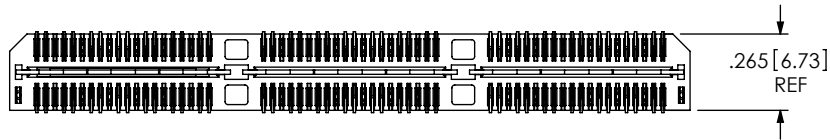


FIG. 6
QTE-042-09-X-D-DP-A SHOWN
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 4]
(STYLES -09 & -10)

SECTION "D"-"D"
SCALE 1.25 : 1

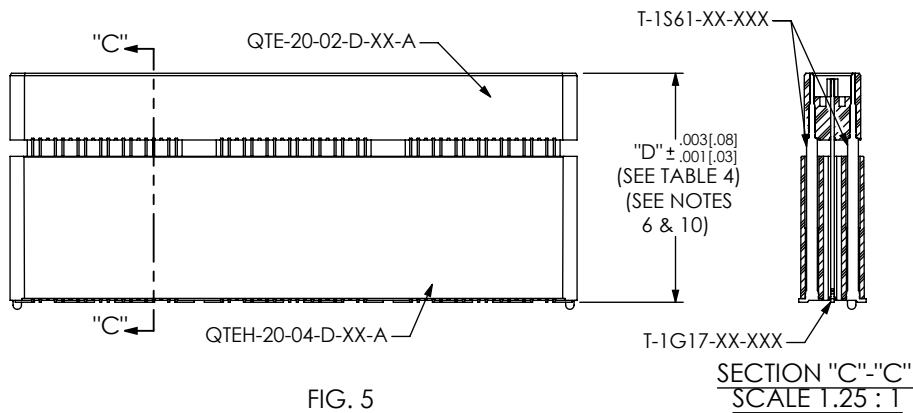


FIG. 5
QTE-042-07-X-D-DP-A SHOWN
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 4]
(STYLES -07 & -08)

SECTION "C"-"C"
SCALE 1.25 : 1

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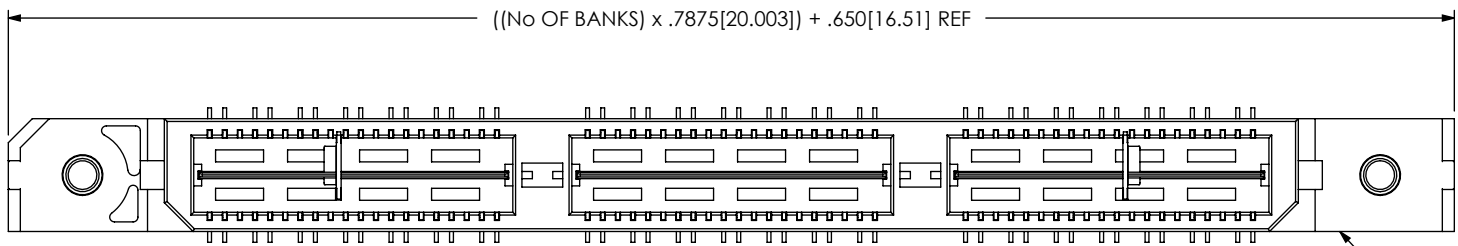
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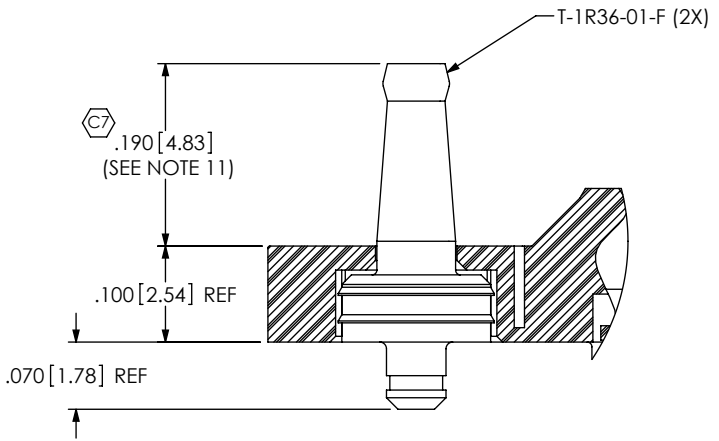
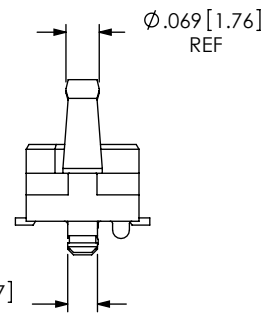
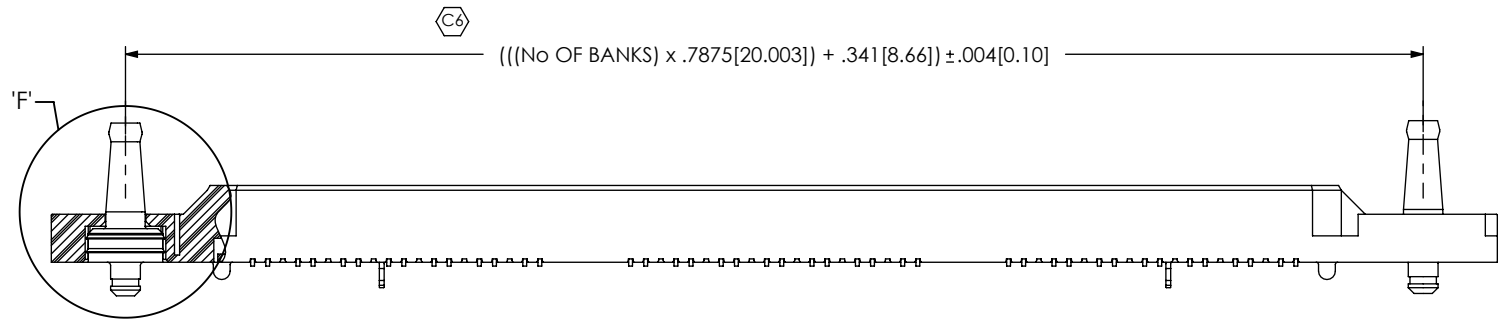
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FIG. 7
 -RT1: RETENTION OPTION
 (ONLY AVAILABLE ON -01 LEAD STYLE)(MUST USE -A OPTION)
 (NOT AVAILABLE WITH -LC, -GP, -SD, OR -FL OPTIONS)
 (NOT AVAILABLE ON -056 & -070 POSITIONS)
 (SAME AS FIG. 1, UNLESS OTHERWISE STATED)



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



DETAIL 'F'
 SCALE 5:1

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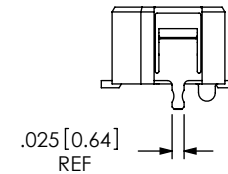
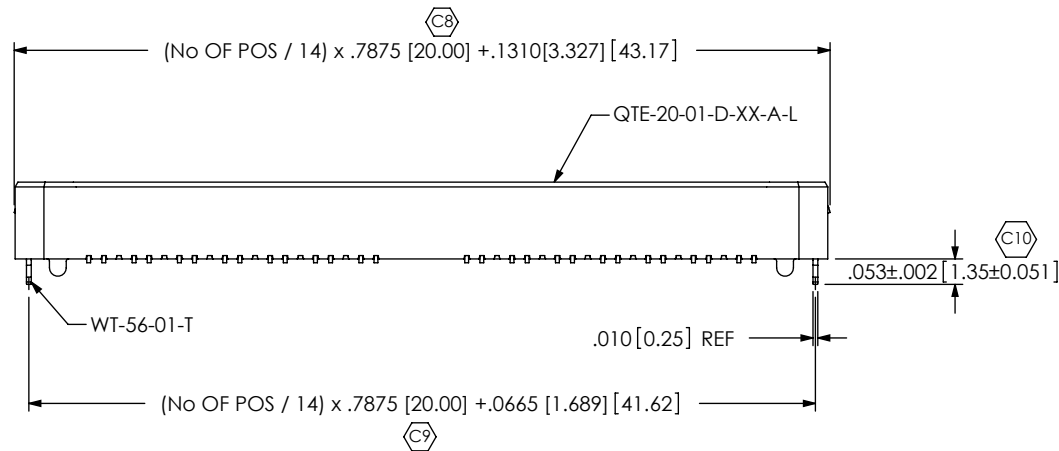
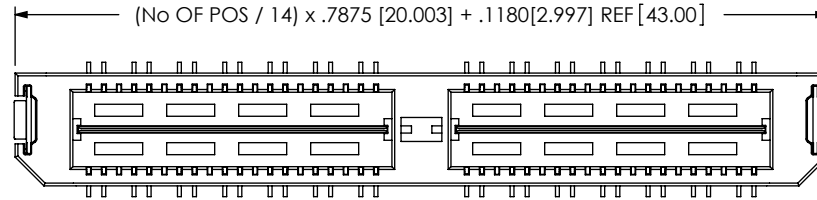
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AG

FIG. 8
 -L: LATCHING OPTION
 (28 POS. MAX.)
 (MUST USE -A OPTION)
 (AVAILABLE ON -01 LEAD STYLE ONLY)
 (NOT AVAILABLE WITH -LC, -GP, -SD, -FL, OR -RT1)
 (SAME AS FIG. 1, UNLESS OTHERWISE STATED)



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