

NO OF POSITIONS
-020, -040, -060,
* -080, * -100
(PER ROW)
* (SEE NOTE 11)

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: FLASH GOLD WITH MATTE TIN TAILS
(USE T-1SXX-XX-F, T-1G1-XX-F)
(SEE NOTE 07)
-L: LIGHT 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: SELECTIVE TIN LEAD
(USE T-1SXX-XX-STL, T-1G1-XX-STL)
-FTL: SELECTIVE TIN LEAD
(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

OPTION

-A: ALIGNMENT PINS
-LC: LOCKING CLIPS (SEE NOTE 12)
(USE LC-08-TM-01)
-K: POLYIMIDE FILM
(USE K-DOT-.276-.375-.005, SEE FIG. 2)
(N/A ON STYLE -07 & -08)
-TR: TAPE & REEL (60 POS. MAX)
(40 FOR -GP OPTION)
(N/A ON STYLE -05, -06, -07, & -08)
-GP: GUIDE POSTS (SEE FIG. 3, SHT. 2)
(AVAILABLE ON -01 ONLY)
(USE QTE-20-01-D-XX-GP)
(T & R PACK: 40 POS. MAX.)
-SD: SCREW DOWN (SEE FIGURE 4, SHEET 2)
(AVAILABLE ON -01 ONLY)
(USE QTE-20-01-D-XX-SD)
-FL: FRICTION LOCKS (SEE FIG. 8, SHEET 4)
(ONLY AVAILABLE ON -01 & -02)
(NOT AVAILABLE WITH -GP, -SD)
-RT1: RETENTION OPTION (SEE FIG. 9, SHEET 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, -SD, OR -FL)
-L: LATCHING OPTION (40 POS. MAX.)
(SEE FIG. 11, SHEET 6) (MUST USE -A OPTION)
(AVAILABLE ON -01 ONLY)
(NOT AVAILABLE WITH -LC, -GP, -SD, -FL,
OR -RT1)

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

C3-B-CP
SEE TABLE 2

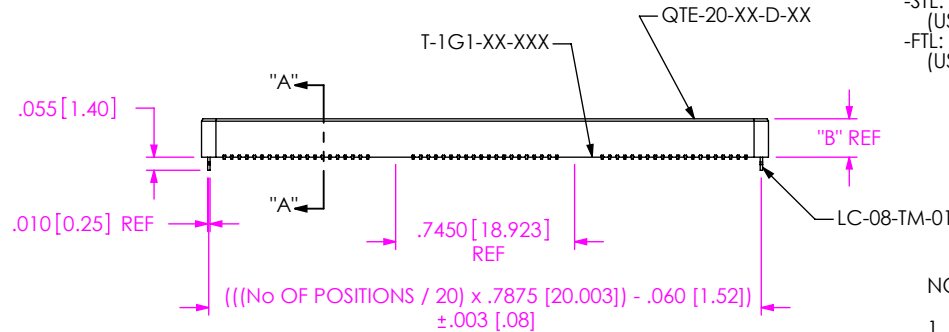
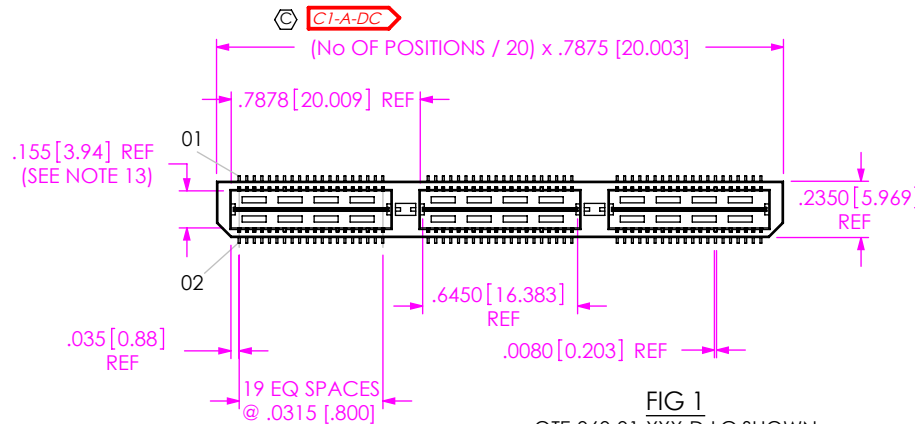
"A" +.003
-.001
(SEE NOTE 9)
C2-B-DC

.0370 [0.940] REF
.0150 [0.381] REF
.280 [7.11] REF
.0375 [0.953] REF

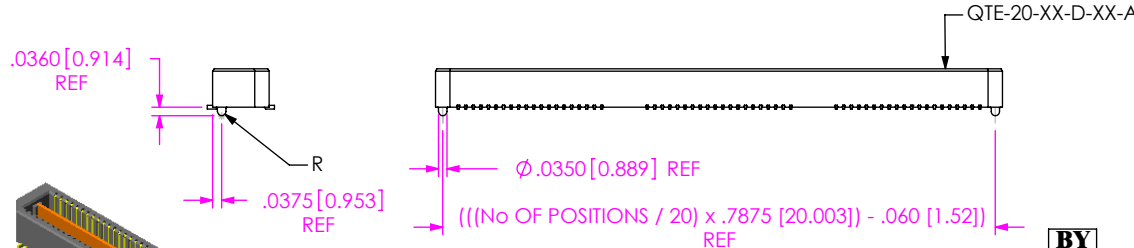
SECTION "A"- "A"

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 [.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 [.08] LESS THAN THE MAX HEIGHT OR .001 [.03] GREATER THAN THE MINIMUM HEIGHT OF THE TERMINALS.
10. T-1R36 RETENTION TO BODY TO BE 1.0 LBF.
11. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
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. ROW TO ROW MIN IS .152, PIN CAN EXTEND PAST WALL .003 MAX.



-LC: LOCKING CLIP OPTION SHOWN



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

TABLE 2	
NO OF POSITIONS	COPLANARITY INCLUDING GP
-020 THRU -060	.004 [.10]
-080 THRU -100	.006 [.15]

(SEE NOTE 11)

TABLE 1					
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
-02	.2861 [7.267]	.2781 [7.064]	QTE-20-02-D-XX	T-1G1-02-XXX	T-1S39-02-XXX
-03	.4042 [10.267]	.3962 [10.063]	QTE-20-03-D-XX	T-1G1-03-XXX	T-1S39-03-XXX
					MATED HEIGHT WITH QSE-01
					.197 [5.00] REF
					.315 [8.00] REF
					.433 [11.00] REF

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C12-A-1MV

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

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MATERIAL:

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

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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 1 OF 6

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

TABLE 3	
STYLE	"R"
-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]

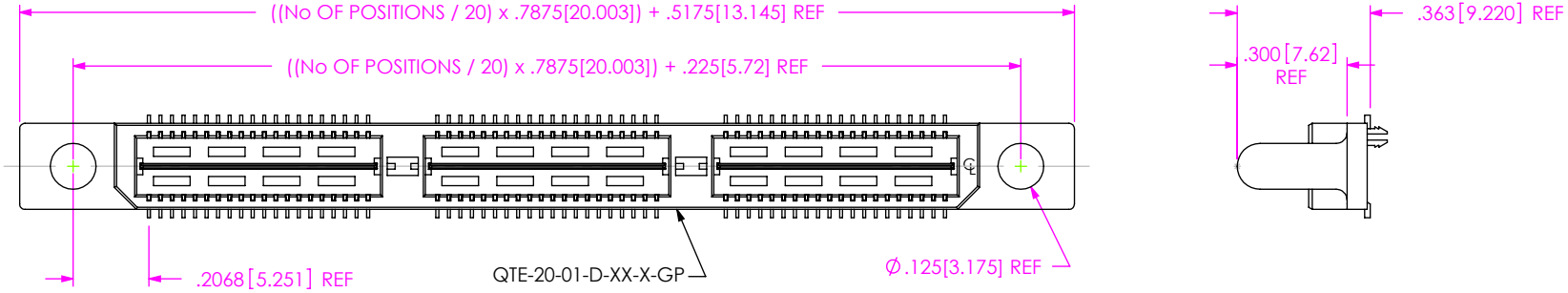
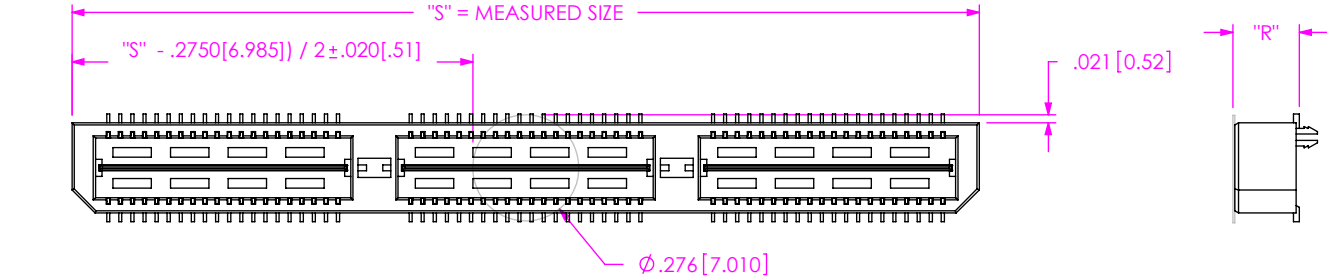


FIG 3
-GP: GUIDE POST OPTION
(-01 LEAD STYLE ONLY)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

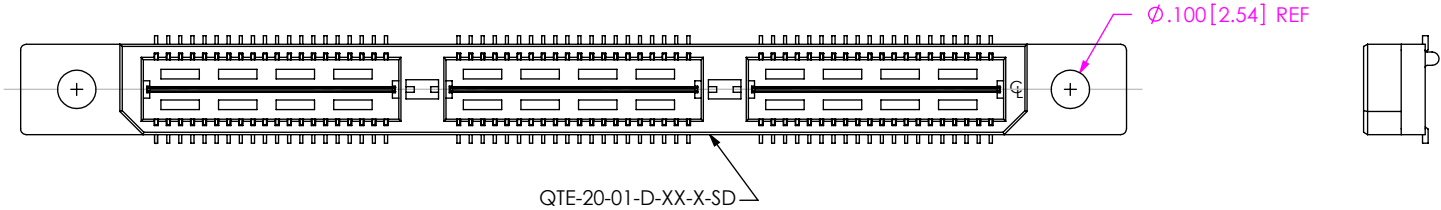


FIG 4
-SD: SCREW DOWN OPTION
(-01 LEAD STYLE ONLY)
(SAME AS FIG 3, UNLESS OTHERWISE STATED)

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

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FIG 5
QTE-060-04-X-D-LC SHOWN
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1]
(STYLES -04, -05 & -06)

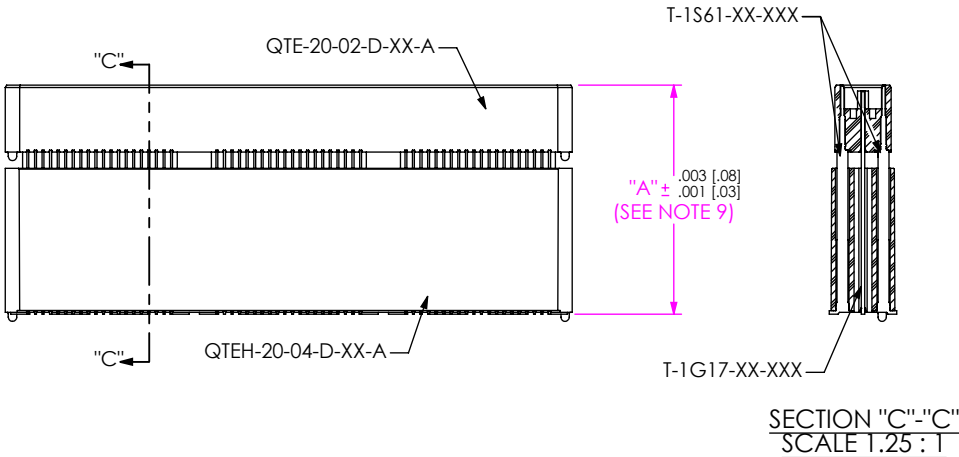
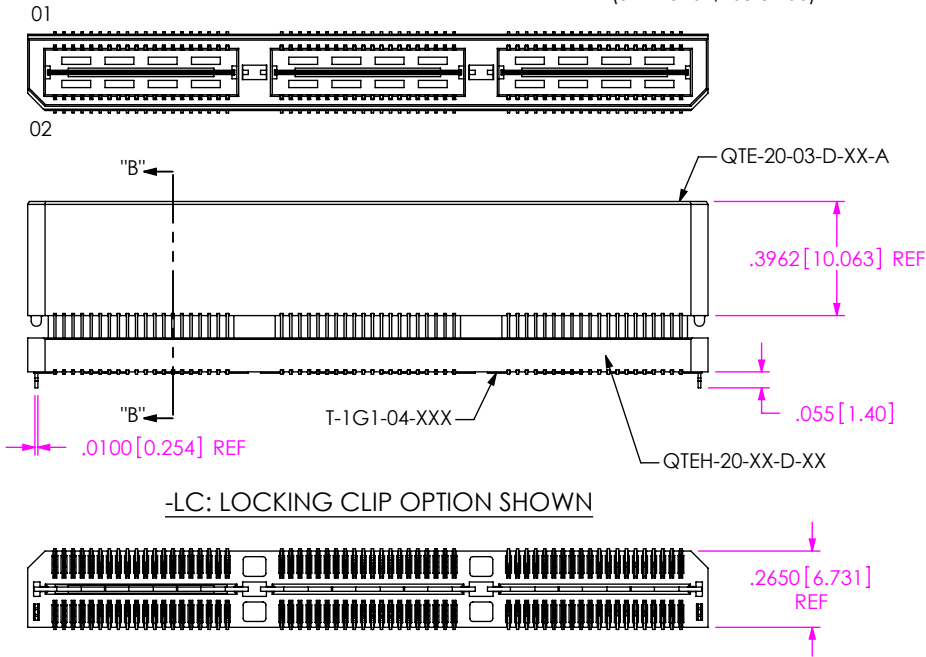


FIG 6
QTE-060-07-X-D-A SHOWN
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5]
(STYLES -07 & -08)

TABLE 4						MATED HEIGHT WITH QSE-01
STYLE	"A"	GROUND PLANE	TERMINAL	BOTTOM SPACER BODY	TOP BODY	
-04	6010 [15 265]	T-1G1-04-XXX	T-1S41-04-XXX	QTEH-20-01-D-XXX	QTE-20-03-D-XXX	630 [16.00] REF
-05	7190 [18 263]	T-1G1-05-XXX	T-1S41-05-XXX	QTEH-20-01-D-XXX	QTE-20-03-D-XXX	748 [19.00] REF
-06	8370 [21 260]	T-1G1-06-XXX	T-1S41-06-XXX	QTEH-20-02-D-XXX	QTE-20-03-D-XXX	866 [22.00] REF
-07	9540 [24 232]	T-1G17-01-XXX	T-1S61-21-XXX	QTEH-20-04-D-XXX	QTE-20-02-D-XXX	984 [25.00] REF
-08	1 1510 [29 235]	T-1G17-02-XXX	T-1S61-22-XXX	QTEH-20-04-D-XXX	QTE-20-02-D-XXX	1 181 [30.00] REF
-09	5220 [13 259]	T-1G1-09-XXX	T-1S60-09-XXX	QTEH-20-01-D-XXX	QTE-20-02-D-XXX	551 [14.00] REF
-10	5606 [14 239]	T-1G1-10-XXX	T-1S60-10-XXX	QTEH-20-01-D-XXX	QTE-20-02-D-XXX	591 [15.00] REF

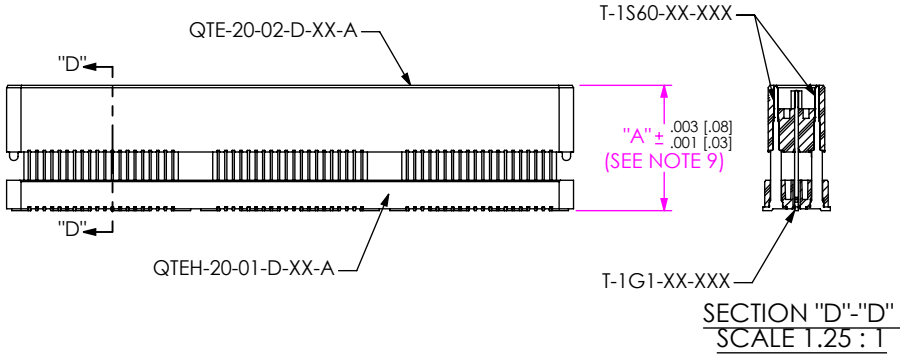
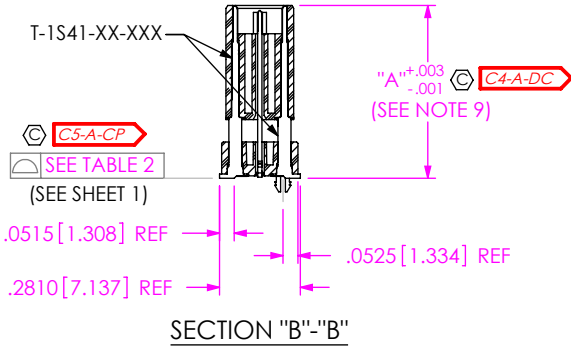


FIG 7
QTE-060-09-X-D-A SHOWN
[DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5]
(STYLES -09 & -10)

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

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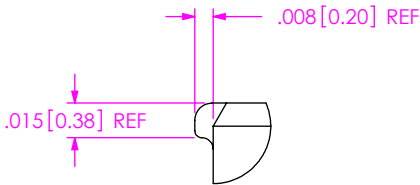
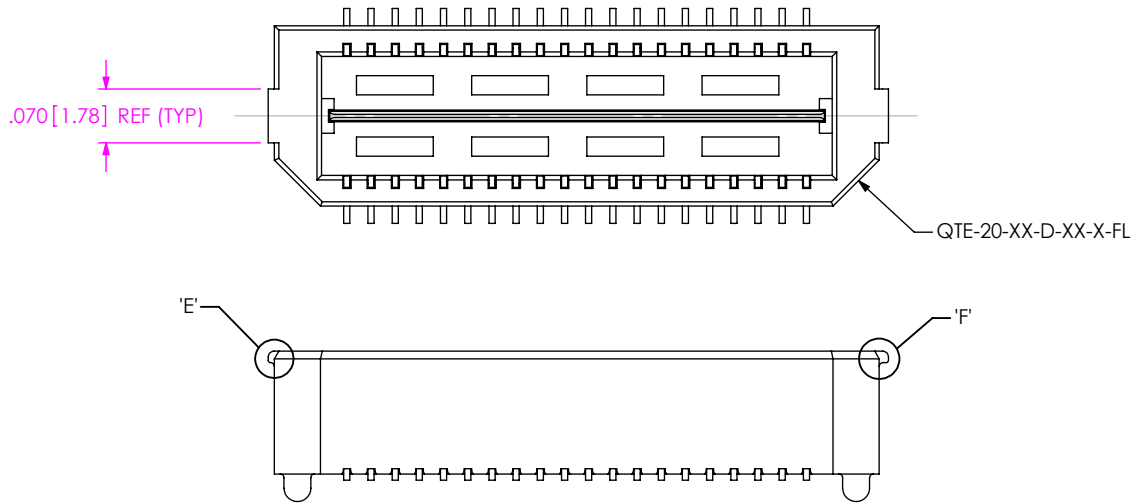
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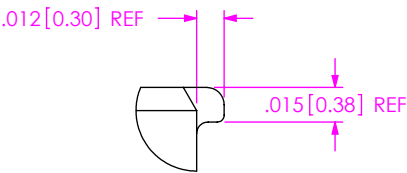
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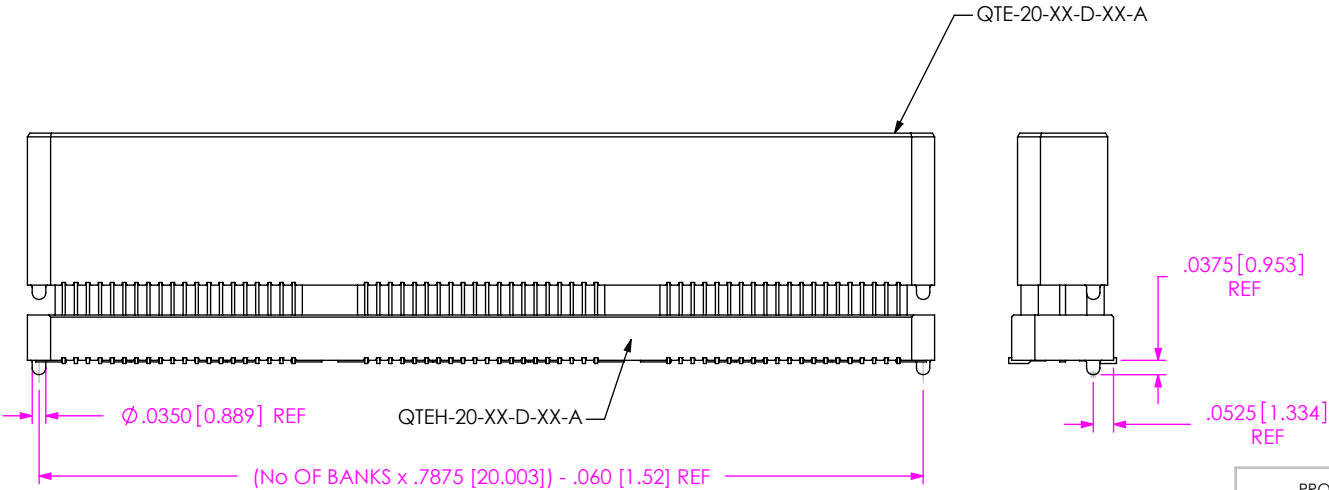
FIG 8
-FL: FRICTION LOCKS
(ONLY AVAILABLE ON -01 & -02 LEAD STYLES)
(NOT AVAILABLE WITH -GP, -SD OPTIONS)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



DETAIL 'E'
SCALE T2: 1



DETAIL 'F'
SCALE T2: 1



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

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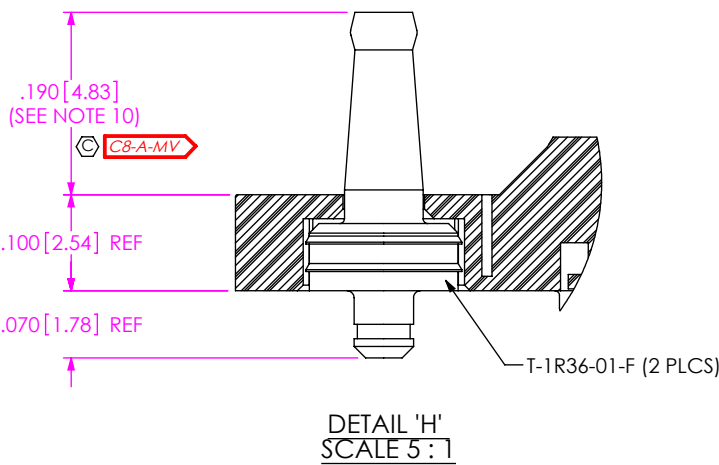
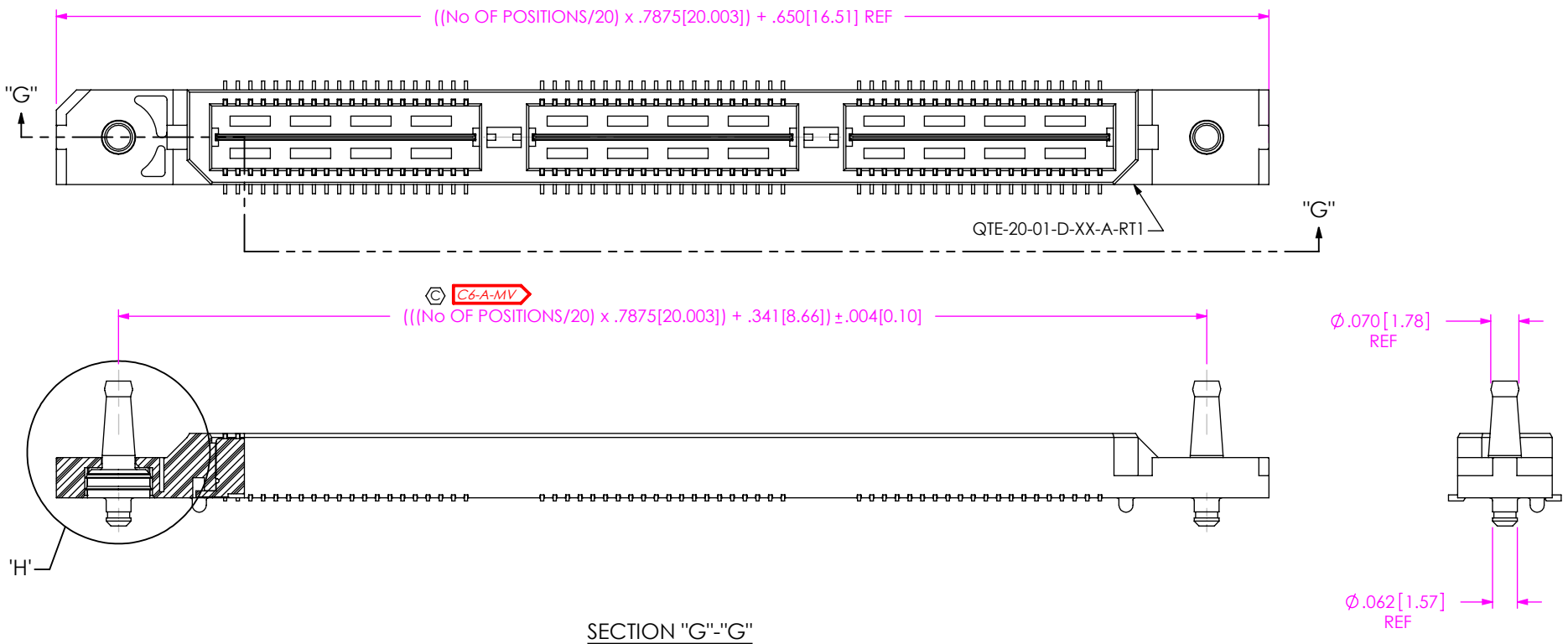
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FIG 9
-RT1: RETENTION OPTION
(ONLY AVAILABLE ON -01 LEAD STYLE)(MUST USE -A OPTION)
(NOT AVAILABLE WITH -LC, -GP, -SD, OR -FL OPTIONS)
(NOT AVAILABLE ON -100 POSITION)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



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FIG 10
-TR: PACKAGING OPTION
(NOT AVAILABLE ON LEAD SYTLES -05, -06, -07 & -08)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

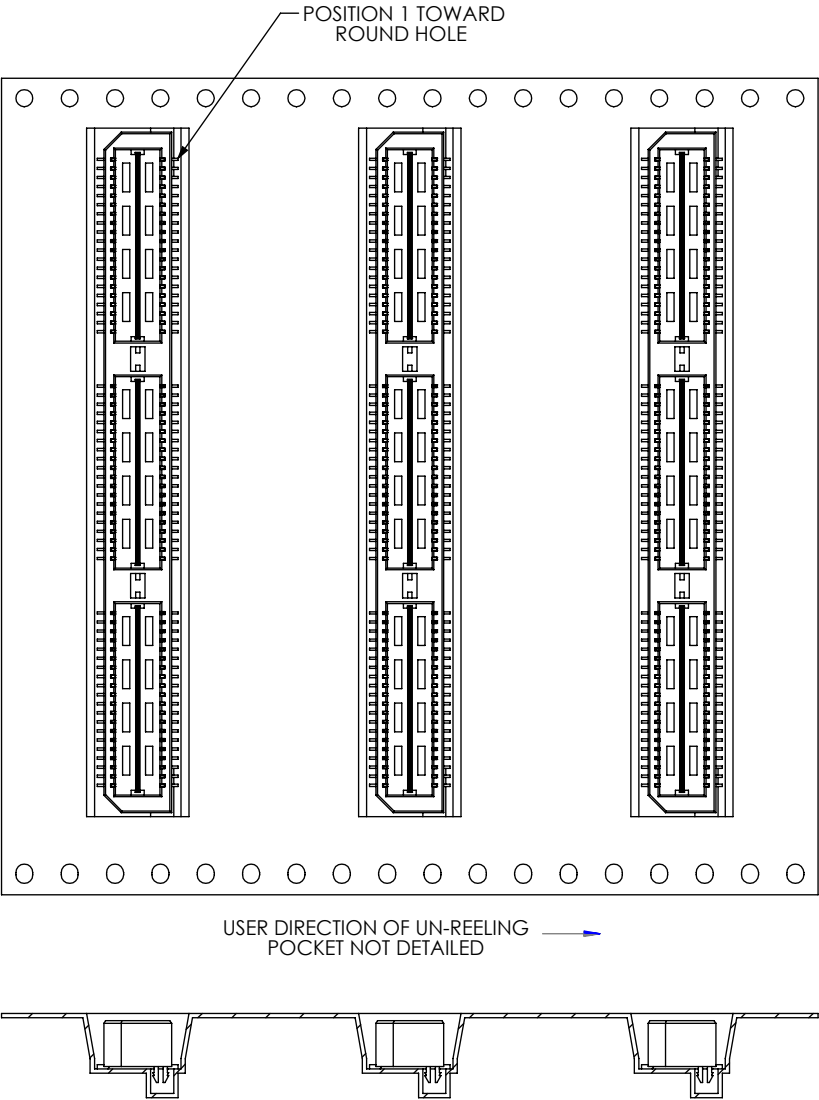
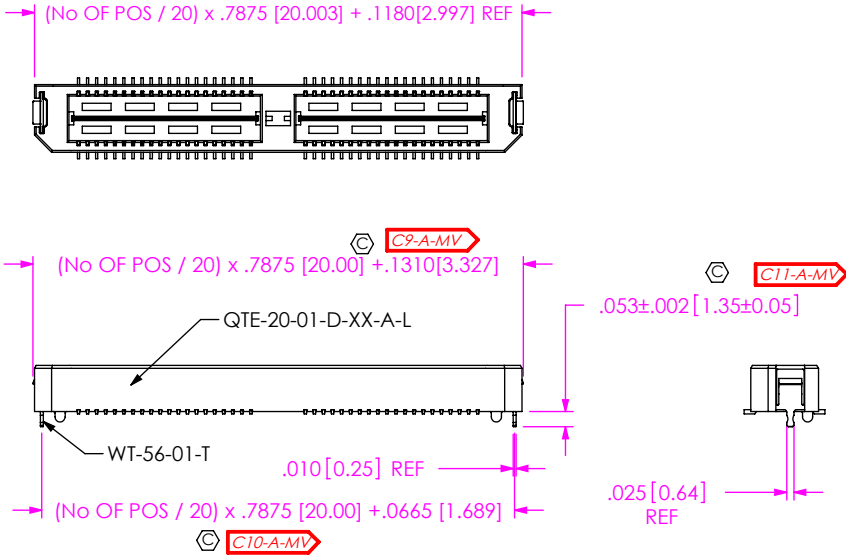


FIG 11
-L: LATCHING OPTION
(40 POS. MAX.)
(MUST USE -A OPTION)
(AVAILABLE ON -01 LEAD SYTLE ONLY)
(NOT AVAILABLE WITH -LC, -GP, -SD, -FL, OR -RT1)
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



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

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