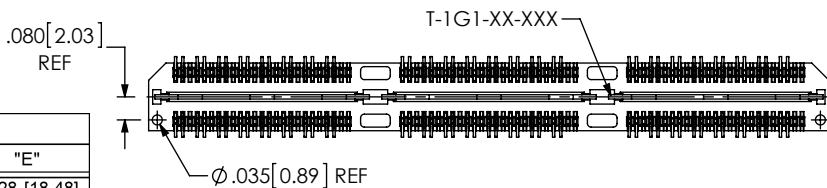
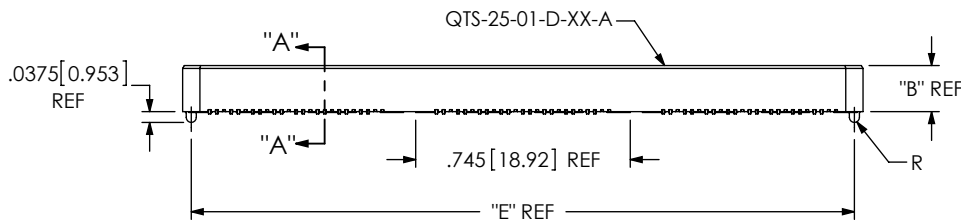
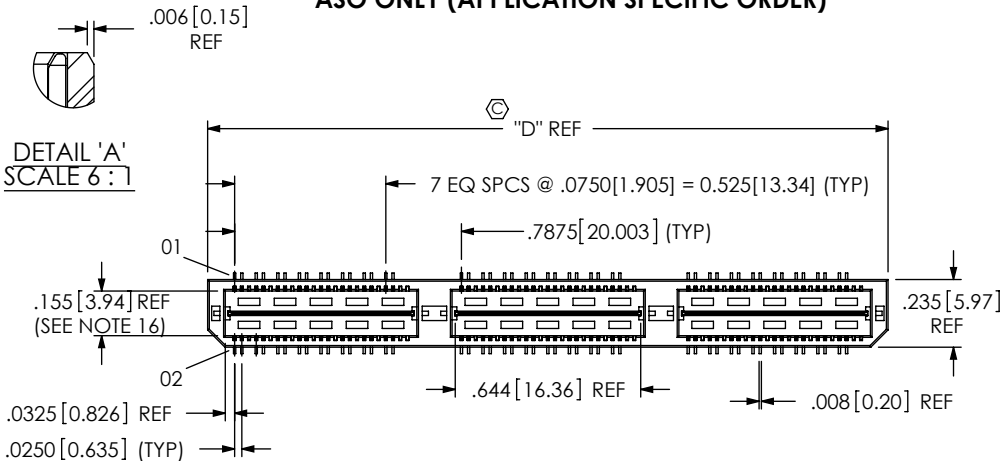
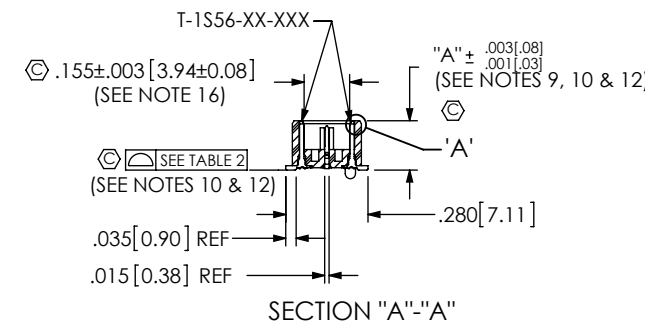


ASO ONLY (APPLICATION SPECIFIC ORDER)

QTS-XXX-XX-XXX-D-DP-XX



- No OF POSITIONS**  
 -016, -032, -048, \*\*064, \*\*080 (PER ROW)  
 \*\*SEE NOTE 14 & 17
- LEAD STYLE**  
 -01: .1680 [4.267]  
 -02: .2861 [7.264]  
 -03: .4042 [1.123]  
 -04: .6000 [15.240]  
 \*05: .7180 [18.237]  
 \*06: .8360 [21.234]
- PLATING SPECIFICATION**  
 -F: 3µ" FLASH SELECTIVE GOLD, MATTE TIN TAILS (USE T-1SXX-XX-F & T-1G1-XX-F) (SEE NOTE 11)  
 -L: 10µ" LIGHT SELECTIVE GOLD, MATTE TIN TAILS (USE T-1SXX-XX-L & T-1G1-XX-L)  
 -H: 30µ" HEAVY GOLD, 3µ" GOLD TAILS (USE T-1SXX-XX-H & T-1G1-XX-G)  
 -STL: 30µ" HEAVY SELECTIVE GOLD, TIN LEAD TAILS (USE T-1SXX-XX-STL & T-1G1-XX-STL)  
 -FTL: 3µ" FLASH SELECTIVE GOLD, TIN LEAD TAILS (USE T-1SXX-XX-FTL & T-1G1-XX-FTL)
- OPTION**  
 -A: ALIGNMENT PINS (SEE FIG 1) (USE QTS-25-01-D-XX-A)  
 -LC: LOCKING CLIPS (SEE FIG 2, NOTE 15) (USE LC-08-TM-01)  
 -K: POLYIMIDE FILM PAD OPTION (SEE FIG 3, SHT 2) (USE K-500-300)  
 -TR: TAPE & REEL OPTION (48 POS MAX)  
 -DP: DIFFERENTIAL PAIRS
- ROW SPECIFICATION**  
 -D: DOUBLE (USE QTS-25-XX-D-XX & QTSH-25-XX-D-XX)
- No OF BANKS**  
 ☒ = SEE SHEET 3  
 \* = NOT ENGINEERING APPROVED



**TABLE 6**

No. OF POS	"D"	"E"
-016	.788 [20.00]	.728 [18.48]
-032	1.575 [40.01]	1.515 [38.48]
-048	2.363 [60.01]	2.303 [58.48]
**064	3.150 [80.01]	3.090 [78.49]
**080	3.938 [100.01]	3.878 [98.49]

\*\* = SEE NOTE 14 & 17

**TABLE 1**

STYLE	"A"	"B"	BODY	GROUND PLANE	TERMINAL	MATED HEIGHT WITH QSS-01-DP
-01	.1680	.1600	QTS-25-01-D-XX	T-1G1-01-XXX	T-1S56-01-XXX	.197 [5.00] REF
-02	.2861	.2781	QTS-25-02-D-XX	T-1G1-02-XXX	T-1S56-22-XXX	.315 [8.00] REF

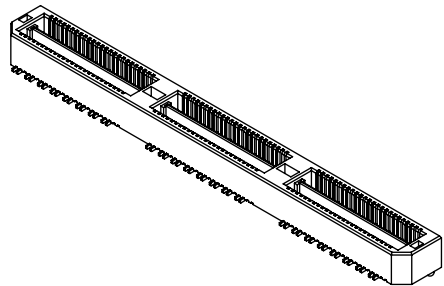
**TABLE 2**


No OF POSITIONS	COPLANARITY (INCLUDES GP)
-016 THRU -048	.004 [10]
**064 & **080	.006 [15]

\*\* = SEE NOTE 14 & 17

**FIG 1**  
 -A: ALIGNMENT PIN OPTION (QTS-048-01-XXX-D-DP-A SHOWN)

- NOTES:**
1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
  2. NOTE DELETED.
  3. NOTE DELETED.
  4. MINIMUM TERMINAL RETENTION: 5 OZ.
  5. MINIMUM GROUND PLANE RETENTION: 1 LB.
  6. NOTE WAS DELETED.
  7. PARTS TO BE MOLDED TO POSITION.
  8. NOTE DELETED.
  9. MAXIMUM VARIANCE OF .002 [0.05].
  10. DIMENSION APPLIES TO TERMINALS AND GROUND PLANES INDEPENDENT OF THE GROUND PLANE OR TERMINAL RESPECTIVELY.
  11. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
  12. 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.
  13. LEAD STYLES -03 THRU -06: TOP BODY (QTS) CANNOT HAVE -A OPTION.
  14. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
  15. 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."
  16. MINIMUM ROW TO ROW IS .152. PIN CAN EXTEND PAST WALL .003 MAX.
  17. AVAILABLE FOR EXISTING CUSTOMERS ONLY.



<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.                  TOLERANCES ARE:                  DECIMALS .XX: ±.01 [3]                  .XXX: ±.005 [13]                  .XXXX: ±.0020 [0.51]</p> <p>ANGLES ± 2°</p>	<p><b>PROPRIETARY NOTE</b>                  THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.</p>	 <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150                  PHONE: 812-944-6733 FAX: 812-948-5047                  e-Mail: info@SAMTEC.com code: 55322</p>	
		<p><b>MATERIAL:</b> DO NOT SCALE DRAWING SHEET SCALE: 1.5:1</p> <p>INSULATOR: LCP, UL94V-0; COLOR: BLACK                  TERMINAL &amp; GROUND PLANE: PHOS BRONZE</p>	<p><b>DESCRIPTION:</b> .635mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY</p> <p><b>DWG. NO.:</b> QTS-XXX-XX-XXX-D-DP-XX</p> <p><b>BY:</b> KEVIN B 09-14-2010 SHEET 1 OF 3</p>

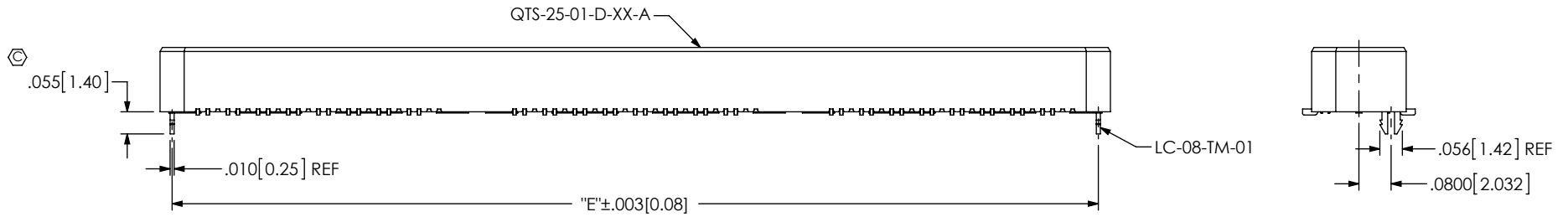


FIG 2  
 -LC: LOCKING CLIP OPTION  
 (QTS-048-01-XXX-D-DP-LC SHOWN)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

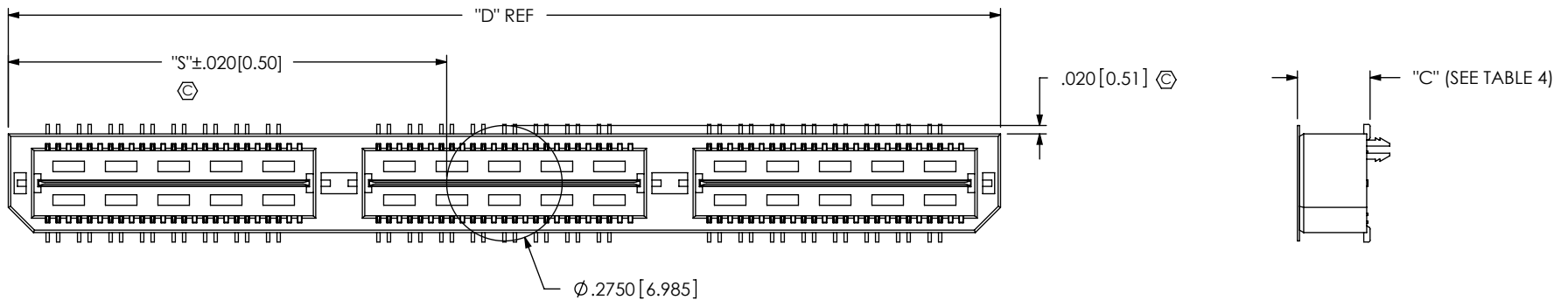


FIG 3  
 -K: POLYIMIDE FILM PAD  
 (USE K-DOT-500-300)

TABLE 7	
No OF POS	"S"
-016	.256 [6.50]
-032	.650 [16.51]
-048	1.043 [26.49]
**-.064	1.437 [36.50]
**-.080	1.831 [46.51]

\*\* = SEE NOTE 14 & 17

TABLE 4	
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]

\*

\*

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DESCRIPTION:  
 .635mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

DWG. NO.  
**QTS-XXX-XX-XXX-D-DP-XX**

BY: KEVIN B 09-14-2010 SHEET 2 OF 3

TABLE 5					MATED HEIGHT WITH QSS-01-DP
STYLE	"A"	GROUND PLANE	TERMINAL	SPACER BODY	
-03	.4042 [10.267]	T-1G1-03-XXX	T-1S51-03-XXX	QTSH-25-01-D-XX-X	.433 [11.00] REF
-04	.6000 [15.240]	T-1G1-04-XXX	T-1S51-04-XXX	QTSH-25-01-D-XX-X	.630 [16.00] REF
-05	.7180 [18.237]	T-1G1-05-XXX	T-1S51-05-XXX	QTSH-25-02-D-XX-X	.748 [19.00] REF
-06	.8360 [21.234]	T-1G1-06-XXX	T-1S51-06-XXX	QTSH-25-02-D-XX-X	.866 [22.00] REF

\* =NOT ENGINEERING APPROVED

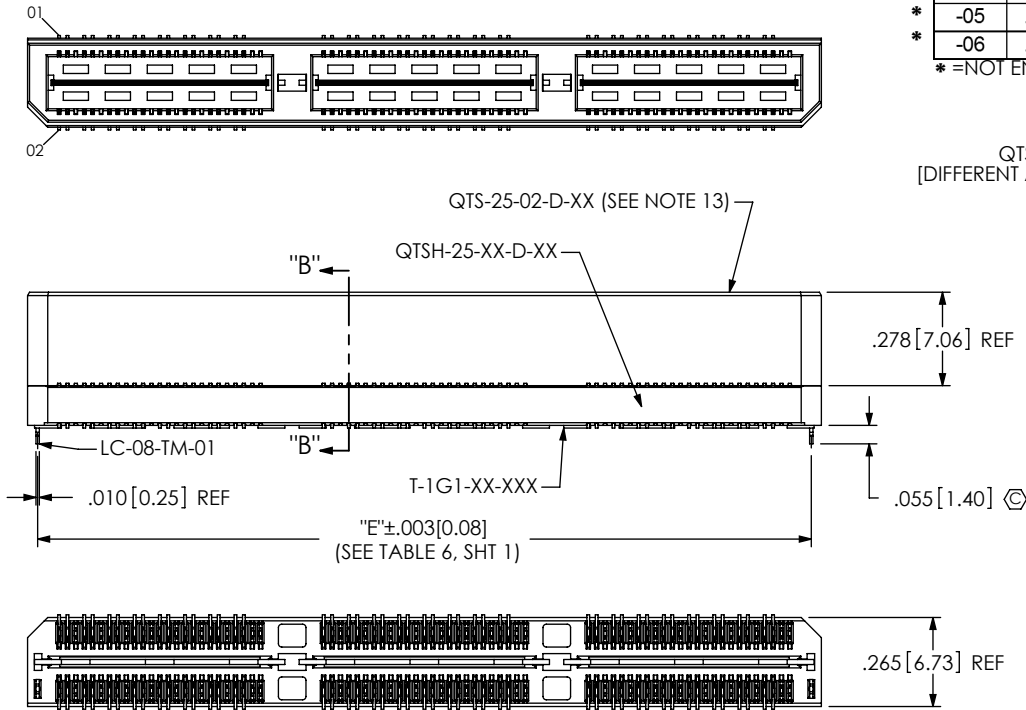


FIG 4  
QTS-048-03-XXX-D-DP-LC SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

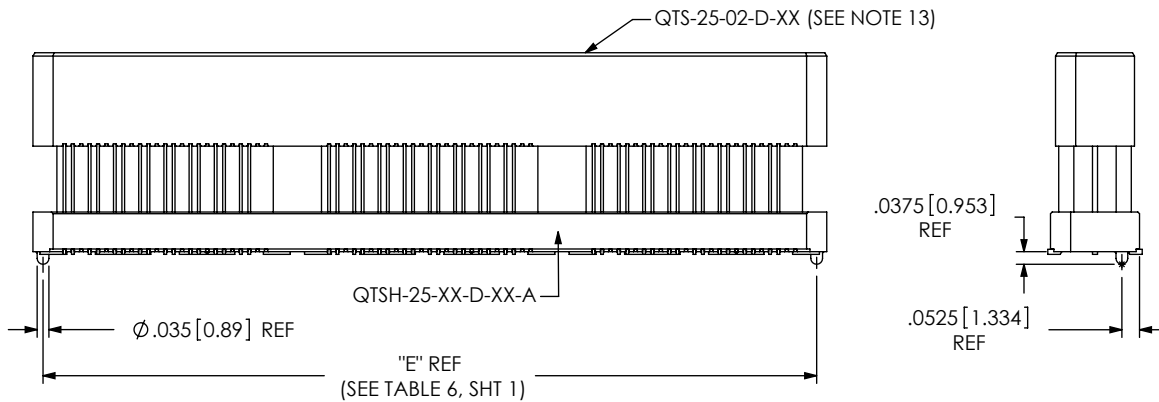
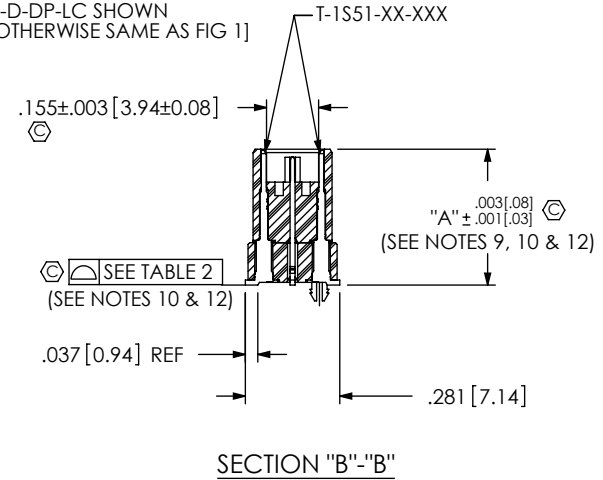


FIG 5  
(QTS-048-04-XXX-D-DP-A SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(STYLE -03, -04, -05 & -06)

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