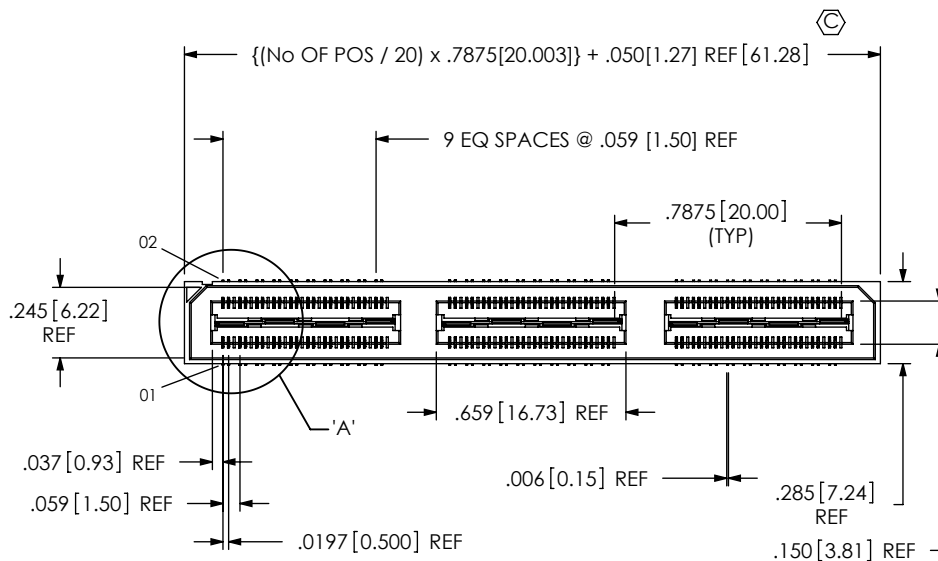


DO NOT  
SCALE FROM  
THIS PRINT



**QSH-XXX-XX-X-D-DP-XXX**

**No OF POSITIONS**  
-020, -040, -060,  
\*\*-080, \*\*-100  
(PER ROW)

**LEAD STYLE**  
-01: .1280 [3.251]

**PLATING SPECIFICATION**  
(SEE NOTE 11)  
-F: 3u" FLASH SELECTIVE IN CONTACT AREA,  
MATTE TIN ON TAIL  
(USE T-1G2-01-F) (SEE NOTE 9)  
-L: 10u" LIGHT SELECTIVE GOLD IN CONTACT  
AREA, MATTE TIN ON TAIL  
(USE T-1G2-01-L) (SEE NOTE 9)  
-H: 30u" HEAVY GOLD IN CONTACT AREA,  
3u" GOLD ON TAIL  
(USE T-1G2-01-G)  
-C: 50u" ELECTRO-POLISHED SELECTIVE GOLD  
IN CONTACT AREA, MATTE TIN ON TAIL  
(USE T-1G2-01-L) (SEE NOTE 9)

**OPTION**  
-A: ALIGNMENT PINS  
(USE QSH-30-01-D-XX-A,  
SEE FIG 2)  
-GP: GUIDE POSTS  
(USE QSH-30-01-D-XX-GP,  
SEE FIG 4)  
-LC: LOCKING CLIPS (SEE NOTE 12)  
(USE LC-08-TM-01, SEE FIG 1)  
-K: POLYIMIDE FILM PAD  
(USE K-DOT-.325-.450-.005, SEE FIG. 3)  
-TR: TAPE & REEL (60 POS MAX)  
-TY: TRAY PACKAGING  
(NOT AVAILABLE WITH -TR)  
-FL: FRICTION LOCKS  
(SEE FIG 5, SHEET 3)  
(NOT AVAILABLE WITH -GP)  
-RT1: RETENTION (MUST USE -A OPTION)  
(USE QSH-30-01-D-XX-A-RT1  
& SUB-SC-05-01-F) (SEE FIG 6, SHEET 3)  
(NOT AVAILABLE WITH -LC, -GP, OR -FL)  
(NOT AVAILABLE WITH -080 & -100 POS)  
-L: LATCHING  
(SEE FIG 7, SHEET 4)  
(USE QSH-30-01-D-XX-A-L)  
(NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1)

**DIFFERENTIAL PAIRS**  
-D: DOUBLE (USE QSH-30-01-D-XX)  
No OF BANKS

**ROW SPECIFICATION**  
-D: DOUBLE (USE QSH-30-01-D-XX)

**C-126-01-X CAN BE SUBBED  
FOR C-126-21-X  
\*\* = SEE NOTE 10**

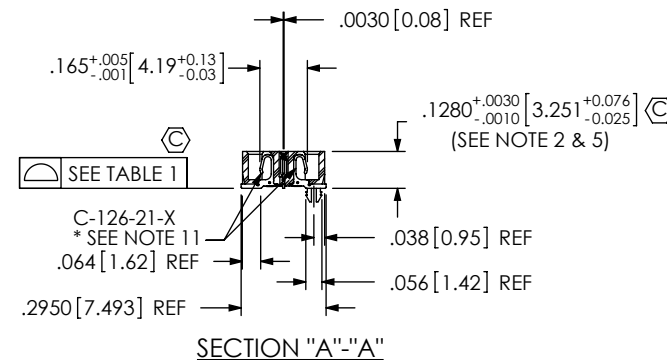
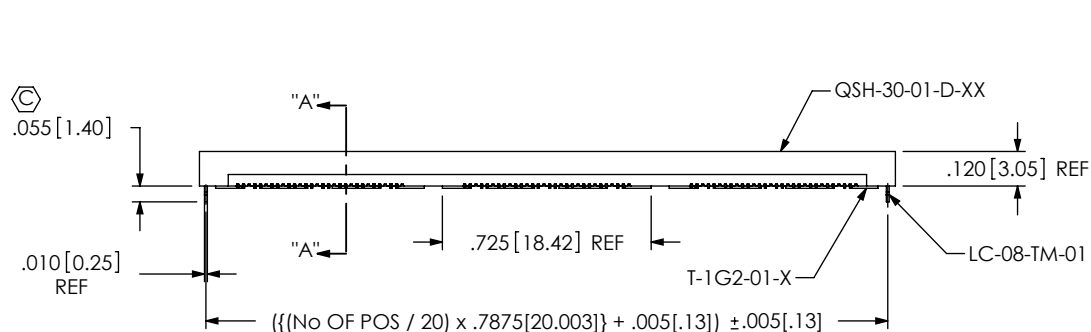


FIG 1  
-LC: LOCKING CLIP OPTION SHOWN

NOTES:

1.  $\odot$  REPRESENTS A CRITICAL DIMENSION.
2. MAX VARIANCE: .002 [0.05]
3. MAX BURR ALLOWANCE: .0015 [0.038]
4. MINIMUM PUSHOUT FORCE: 4 OZ
5. DIM APPLIES TO GROUND PLANE AND CONTACT.
6. MINIMUM GROUND PLANE RETENTION: 8 OZ
7. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
8. SUB-SC-05-01-XX RETENTION TO BE 1.0 LBF IN BODY.
9. MAY SUB C-126-01-X for C-126-21-X.
10. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
11. FOR -80, -100 POSITIONS USE C-269-11-X. DO NOT SUB C-126.
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."

TABLE 1	
No of POS	COPLANARITY (INCLUDES GROUND PLANE)
-020 THRU -060	.0040 [1.02]
-080 THRU -100	.0060 [1.52]

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

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WRITTEN CONSENT OF SAMTEC, INC.

**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 3:2  
INSULATOR: BLACK, LCP  
FLAMMABILITY RATING: UL94VO  
TERMINAL: PHOS BRONZE  
GROUND PLANE: PHOS BRONZE

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

**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
.5mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

DWG. NO.  
**QSH-XXX-XX-X-D-DP-XXX**

BY: KEVIN B 06/13/00 SHEET 1 OF 4

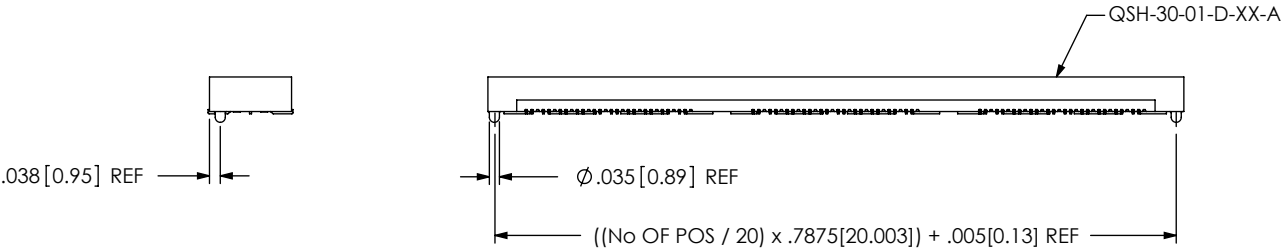


FIG 2  
-A: ALIGNMENT PIN OPTION SHOWN

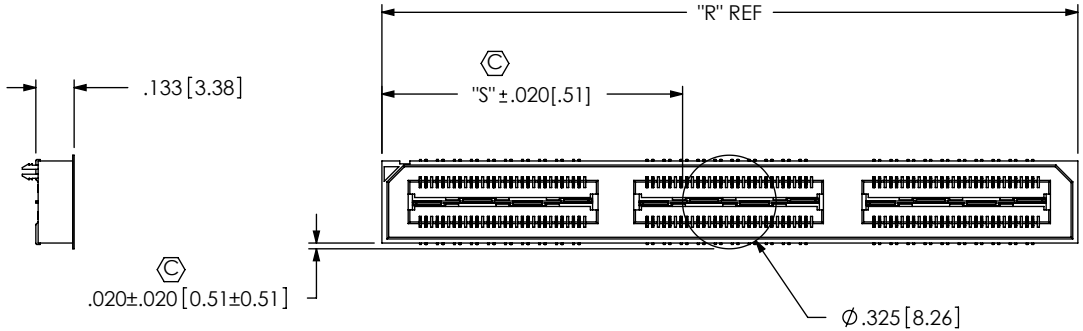
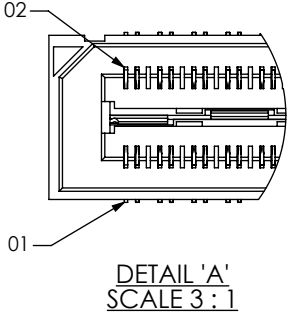


FIG 3  
-K: POLYIMIDE FILM PAD

NOTE: "R" =  $((\text{No OF POSITIONS} / 20) \times .7875[20.003]) + .050[1.27]$   
"S" =  $((\text{"R"} - .325[8.26]) / 2) \pm .020[.51]$

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<p>DO NOT SCALE DRAWING</p> <p>SHEET SCALE: 1.5:1</p>	<p><b>samtec</b></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>DESCRIPTION: .5mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY</p>
	<p>DWG. NO. QSH-XXX-XX-X-D-DP-XXX</p>
<p>BY: KEVIN B 06/13/00 SHEET 2 OF 4</p>	

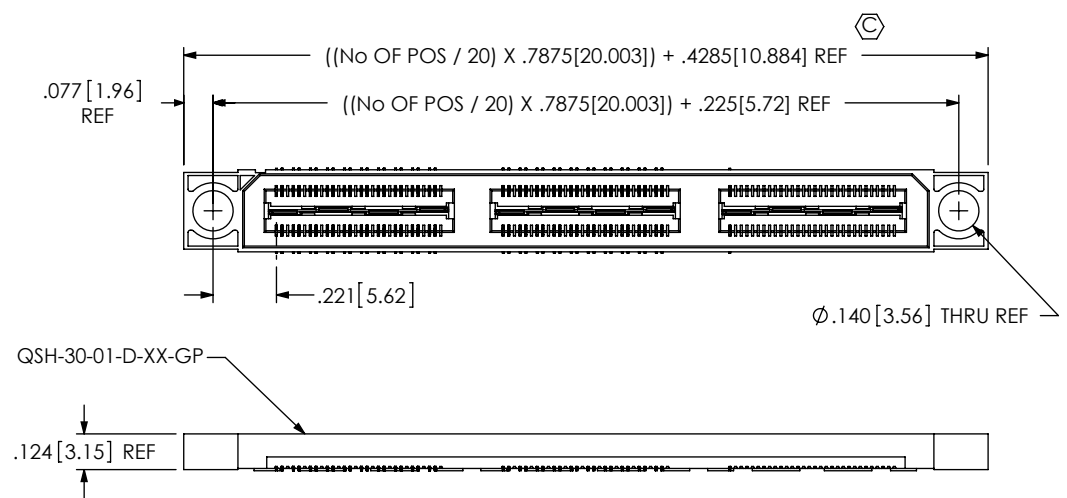


FIG 4  
-GP: GUIDE POST OPTION SHOWN

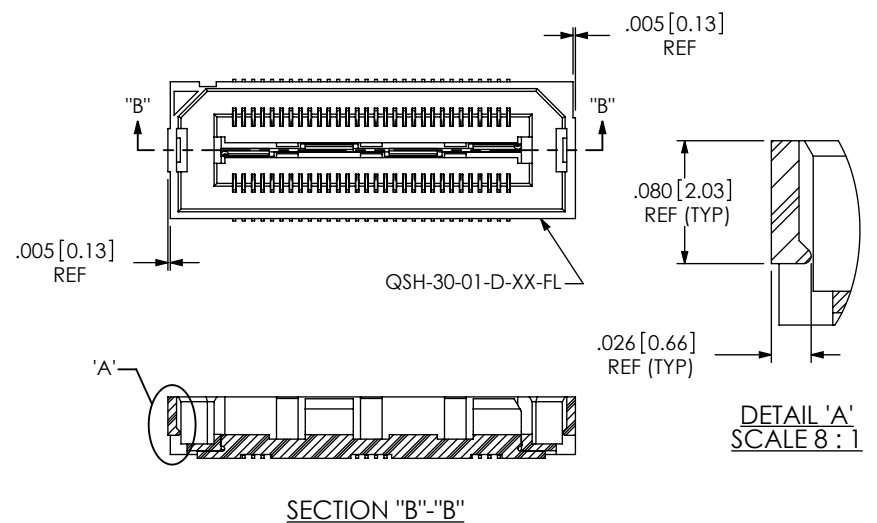
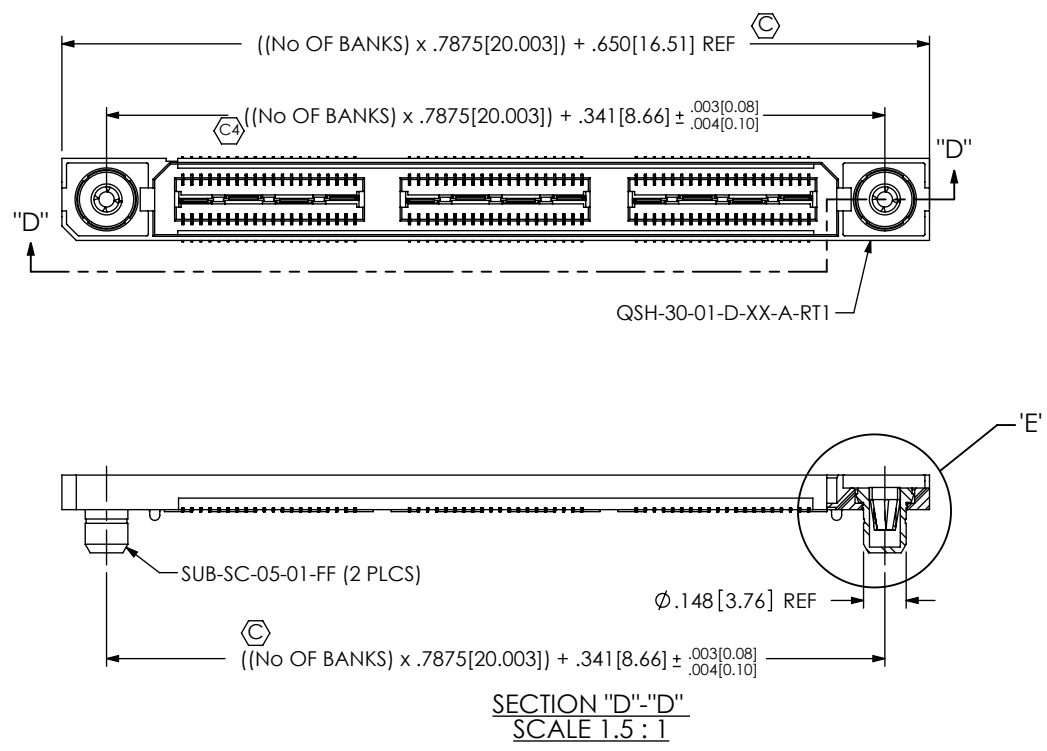
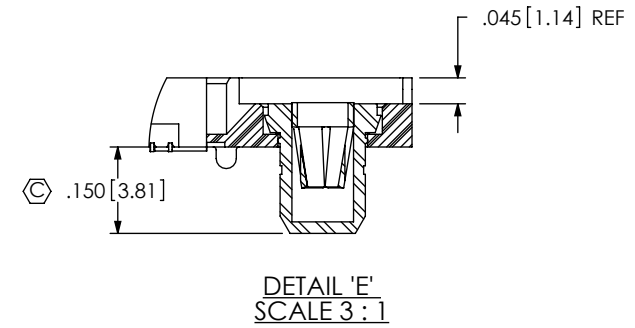


FIG 5  
-FL: FRICTION LOCKS  
(NOT AVAILABLE WITH -GP OPTION)  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



SECTION "D"-"D"  
SCALE 1.5 : 1

FIG 6  
-RT1: RETENTION OPTION  
(MUST USE -A OPTION)  
(NOT AVAILABLE WITH -LC, -GP, OR -FL OPTIONS)  
(NOT AVAILABLE WITH -080 & -100 POS)  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



DETAIL 'E'  
SCALE 3 : 1

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<p>DO NOT SCALE DRAWING</p> <p>SHEET SCALE: 1.25:1</p>		<p>DESCRIPTION: .5mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY</p> <p>DWG. NO. <b>QSH-XXX-XX-X-D-DP-XXX</b></p>	
		BY: KEVIN B 06/13/00	SHEET 3 OF 4

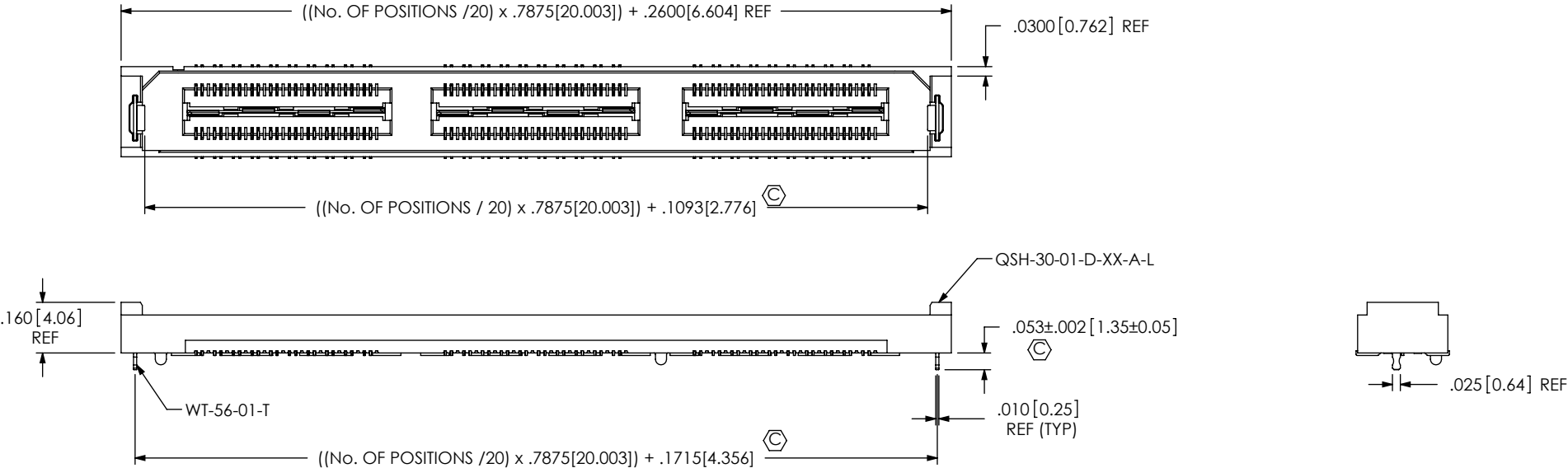


FIG 7  
-L: RETENTION OPTION  
(NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1 OPTIONS)  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)

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<p>DO NOT SCALE DRAWING</p> <p>SHEET SCALE: 2:1</p>		<p>DESCRIPTION: .5mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY</p> <p>DWG. NO. <b>QSH-XXX-XX-X-D-DP-XXX</b></p>
<p>BY: KEVIN B 06/13/00</p>		<p>SHEET 4 OF 4</p>