



**THE DATASHEET OF
QSE-014-01-F-D-DP-A-K-TR**



TABLE 2		
No OF POS	"A"	"B"
-014	.838 [21.27]	.793 [20.13]
-028	1.625 [41.28]	1.580 [40.13]
-042	2.413 [61.28]	2.368 [60.13]
**056	3.200 [81.28]	3.155 [80.14]
**070	3.988 [101.28]	3.943 [100.14]

** = SEE NOTE 17

DO NOT SCALE FROM THIS PRINT

TABLE 1	
No OF POS	COPLANARITY INCLUDING GP
-014 THRU -042	.004 [0.10]
**056 THRU **070	.006 [0.15]

** = SEE NOTE 17

QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX

No OF POSITIONS

(SEE NOTES 11 & 14)
 -014, -028, -042, **056, **070
 (PER ROW)
 ** = SEE NOTE 17

LEAD STYLE

-01: .1280 [3.30]
 * -02: .2460[6.248]

PLATING SPECIFICATION

PLATING THICKNESSES ARE FOR SIGNAL PINS ONLY. FOR GROUND PLANE THICKNESSES, SEE PP-T-1G2-XX-X. (SEE NOTES 7, 12 & 14)
 -F: 3µ" SELECTIVE GOLD CONTACT, MATTE TIN TAIL (USE C-126-21-F, T-1G2-01-F)
 -L: 10µ" SELECTIVE GOLD CONTACT, MATTE TIN TAIL (USE C-126-21-L, T-1G2-01-L)
 -H: 30µ" GOLD CONTACT, 3µ" GOLD TAIL (USE C-126-21-H, T-1G2-01-G)
 -C: 50µ" ELECTRO POLISHED SELECTIVE GOLD CONTACT, MATTE TIN TAIL (USE C-126-21-C, T-1G2-01-L)
 -STL: 30µ" SELECTIVE GOLD CONTACT, TIN LEAD (90/10 ±5%) TAILS (USE C-126-21-STL, T-1G2-01-STL)
 -FTL: 3µ" SELECTIVE GOLD CONTACT, TIN LEAD (90/10 ±5%) TAILS (USE C-126-21-FTL, T-1G2-01-FTL)
 -S: 30µ" SELECTIVE GOLD CONTACT, MATTE TIN TAIL (USE C-126-21-S, T-1G2-01-L)

PACKAGING

BLANK: TRAYS (SEE NOTE 18)
 -TR: TAPE & REEL (SEE NOTES 19 & 20)
 (42 POS MAX)(28 POS MAX FOR -GP)
 -FR: FULL REEL QTY TAPE & REEL (SEE NOTES 19 & 20)
 (42 POS MAX)(28 POS MAX FOR -GP)

PICK & PLACE PAD

-K: POLYIMIDE FILM
 (USE K-DOT-.325-.450-.005, SEE FIG 3, SHT 3)

PIN COUNT, BANKS 1-5

(SEE NOTE 11)
 -S: STANDARD
 -D: DIFFERENTIAL (SEE NOTE 10 & FIG 6, SHT 5)

OPTION

-A: ALIGNMENT PINS (USE QSE-20-01-D-XX-A) (NOT AVAILABLE WITH -LC)
 -LC: LOCKING CLIPS (SEE NOTE 15) (USE LC-08-TM-01, SEE FIG 2, SHT 3) (NOT AVAILABLE WITH -A)
 -GP: GUIDE POSTS (USE QSE-20-XX-D-GP, SEE FIG 4, SHT 4)
 -RT1: RETENTION (MUST USE -A OPTION) (USE QSE-20-01-D-XX-A-RT1 & SUB-SC-05-01-FF) (SEE FIG 5, SHT 4) (NOT AVAILABLE WITH -LC OR -GP) (NOT AVAILABLE IN 056 OR 070 POS)
 -L: LATCHING OPTION (28 POS MAX) (SEE FIG 8, SHT 5) (MUST USE -A OPTION) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1)

BODY STYLE

-DP: DIFFERENTIAL PAIRS

ROW SPECIFICATION


-D: DOUBLE (USE QSE-20-01-D-XX)

* = NOT TOOLED

No OF BANKS

NOTES:

- ⊙ REPRESENTS A CRITICAL DIMENSION.
- MINIMUM TERMINAL RETENTION: 5 OZ.
- MINIMUM GROUND PLANE RETENTION: 8 OZ.
- PARTS TO BE MOLDED TO POSITION.
- MAXIMUM VARIANCE: .002 [0.05].
- DIMENSION APPLIES TO TERMINALS AND GROUND PLANE.
- L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
- GROUND PLANE PRESS HEIGHT MUST BE .003[0.08] LESS THAN THE MAXIMUM HEIGHT OR .001[0.03] GREATER THAN THE MINIMUM HEIGHT OF THE SOCKETS.
- SUB-SC-05-01-XX RETENTION TO BE 1.0 LBF IN BODY.
- IF ORDERING ALL BANKS DIFFERENTIAL PAIR, LEAVE BLANK. IF ORDERING ALL BANKS STANDARD PIN COUNT, ORDER QSE-XXX-XX-X-D-XXX (STANDARD QSE)
- PIN COUNT PER ROW= (# -DP BANKS X 14) + (# -S BANKS X 20)
- MAY SUB C-126-01-XXX FOR C-126-21-XXX.
- NOTE DELETED.
- FOR -056, -070 POSITIONS USE C-269-11-XXX. DO NOT SUB C-126.
- 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.
- SIDE WALLS ARE RIBBED AS NECESSARY TO CONTROL BOW.
- AVAILABLE FOR EXISTING CUSTOMERS ONLY.
- TRAYS STANDARD PACKAGING
- ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
- ATTACH LABEL -4X2 TO EACH REEL.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX: ±.01 [25] 2° .XXX: ±.005 [13] .XXXX: ±.0020 [05]	* PROPRIETARY NOTE * THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.		520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322
			MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1.5:1 INSULATOR: LCP, UL94V0; COLOR: BLACK CONTACT: PHOS BRONZE GROUND PLANE: PHOS BRONZE
BY: DEAN P 5/05/2000 SHEET 1 OF 5		F:\DWG\MISC\MKTG\QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX-MKT.SLDDRW	

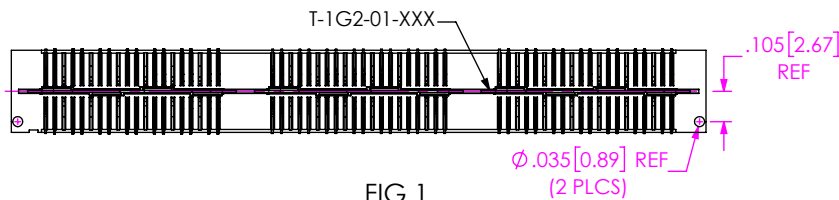
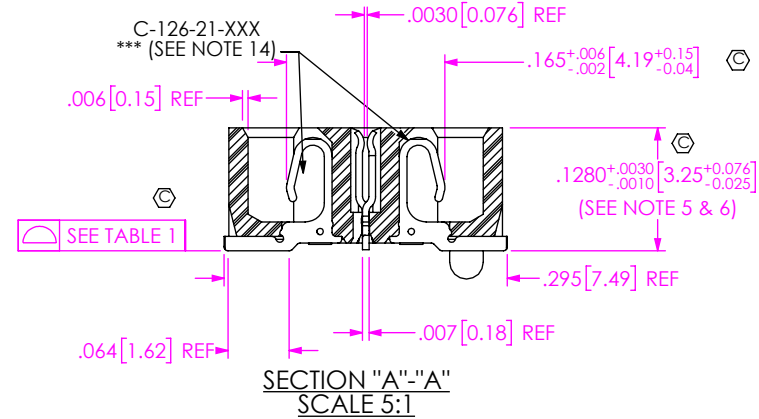
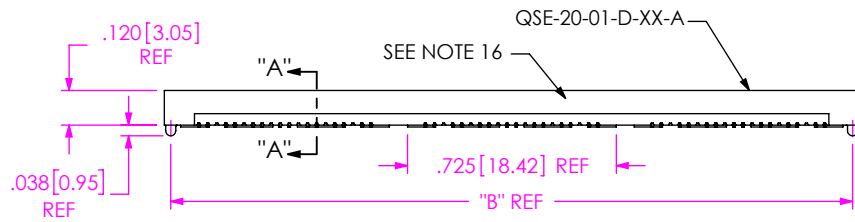
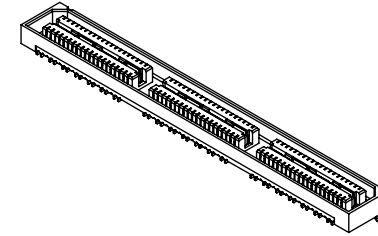
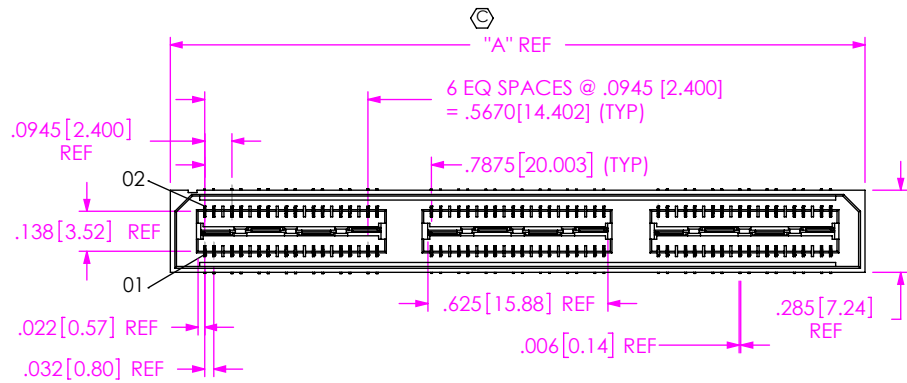


FIG 1
-A: ALIGNMENT PIN OPTION
(QSE-042-01-XXX-D-DP-A SHOWN)

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SHEET SCALE: 1.5:1

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

DWG. NO.
QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX

BY: DEAN P 5/05/2000 SHEET 2 OF 5

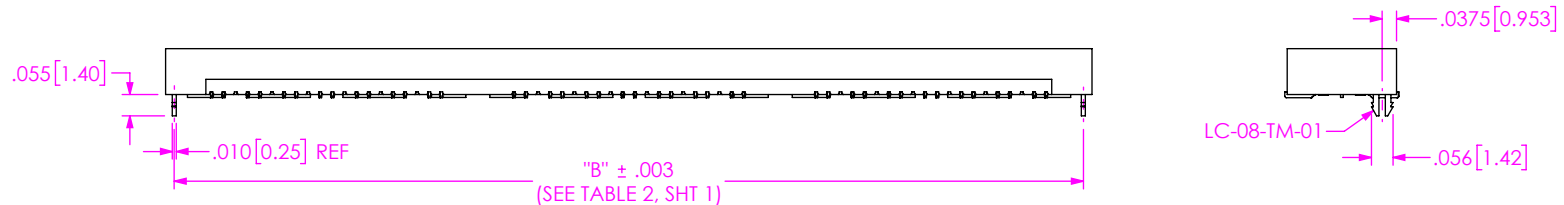


FIG 2
 -LC: LOCKING CLIP OPTION
 (QSE-042-01-XXX-D-DP-LC SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 3

No OF POS	"R"				"S"			
	-LC, -A	-GP	-RT	-L	-LC, -A	-GP	-RT	-L
-014	.838 [21.27]	1.216 [30.88]	1.438 [36.51]	1.048 [26.61]	.256 [6.51]	.445 [11.31]	.556 [14.13]	.361 [9.18]
-028	1.625 [41.28]	2.003 [50.89]	2.225 [56.52]	1.835 [46.61]	.650 [16.51]	.839 [21.32]	.950 [24.13]	.755 [19.18]
-042	2.413 [61.28]	2.791 [70.89]	3.013 [76.52]	2.623 [66.61]	1.044 [26.51]	1.233 [31.32]	1.344 [34.13]	1.149 [29.18]
**-.056	3.200 [81.28]	3.578 [90.89]	N/A	3.410 [86.61]	1.438 [36.51]	1.627 [41.32]	N/A	1.543 [39.18]
**-.070	3.988 [101.28]	4.366 [110.89]	N/A	4.198 [106.62]	1.831 [46.51]	2.020 [51.32]	N/A	1.936 [49.18]

** = SEE NOTE 17

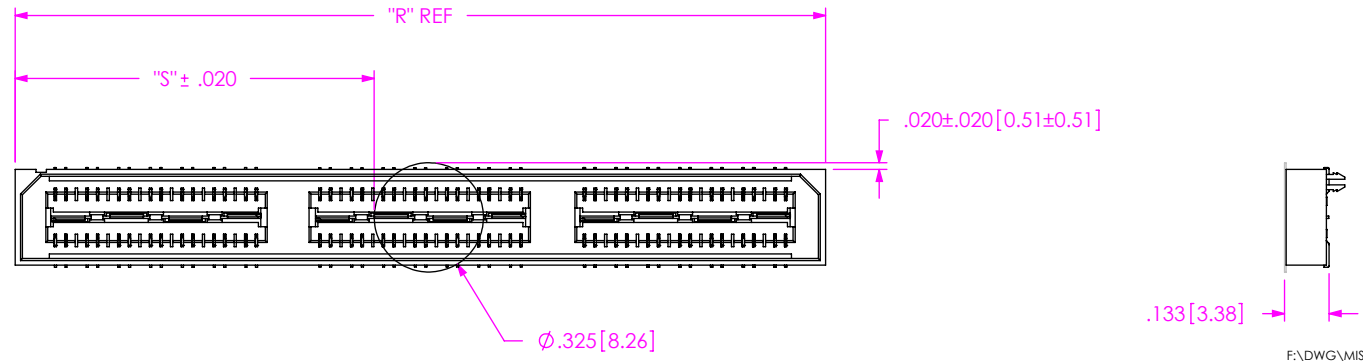


FIG 3
 -K: POLYIMIDE FILM PAD
 (USE K-DOT-.325-.450-.005)

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

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SHEET SCALE: 2:1

DESCRIPTION:
 .8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

DWG. NO.
 QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX

BY: DEAN P 5/05/2000 SHEET 3 OF 5

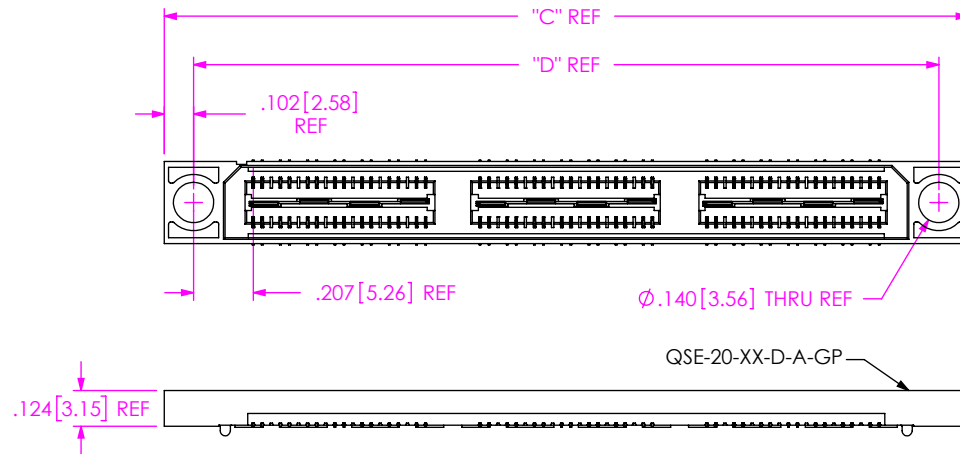


FIG 4
 -GP OPTION
 (QSE-042-01-XXX-D-DP-GP SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (AVAILABLE ON LEAD STYLES -01 & -01-A ONLY)
 (28 POSITION MAX FOR TAPE & REEL PACKAGING)

TABLE 4

No OF POS	"C"	"D"
-014	1.216 [30.88]	1.013 [25.73]
-028	2.003 [50.89]	1.801 [45.73]
-042	2.791 [70.89]	2.588 [65.74]
** -056	3.578 [90.89]	3.376 [85.74]
** -070	4.366 [110.89]	4.163 [105.74]

** = SEE NOTE 17

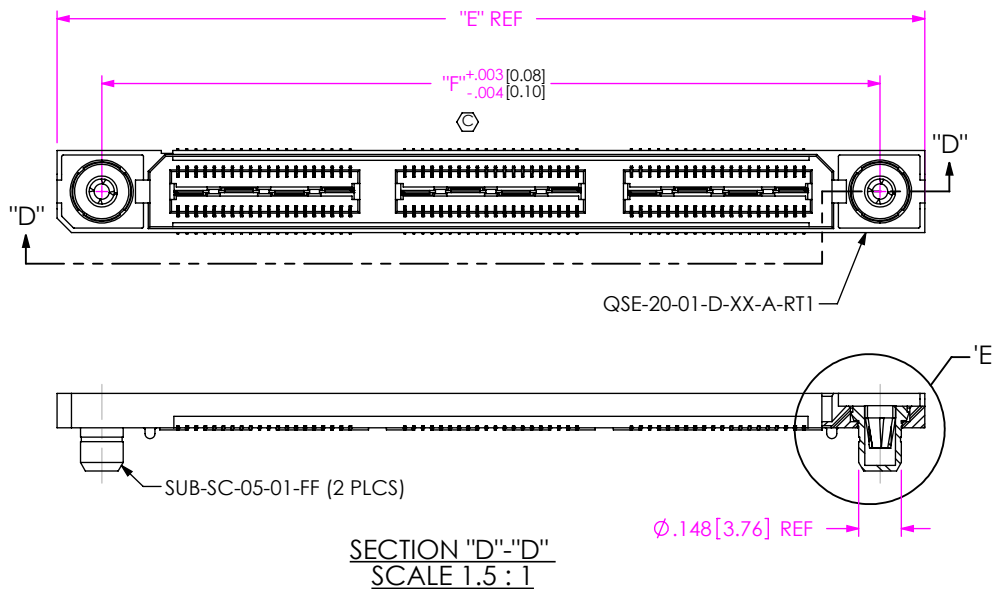
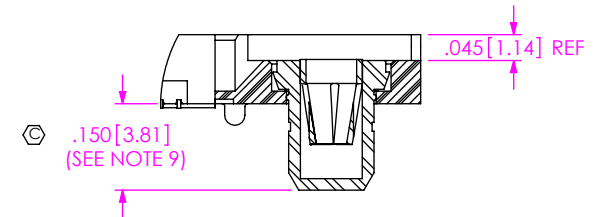


FIG 5
 -RT1: RETENTION OPTION
 (QSE-042-01-XXX-D-DP-A-RT1 SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (MUST USE -A OPTION)
 (NOT AVAILABLE WITH -LC OR -GP OPTIONS)
 (NOT AVAILABLE WITH ** -056 & ** -070)

TABLE 5

No OF POS	"E"	"F"
-014	1.438 [36.51]	1.129 [28.66]
-028	2.225 [56.52]	1.916 [48.67]
-042	3.013 [76.52]	2.704 [68.67]
** -056	N/A	N/A
** -070	N/A	N/A

** = SEE NOTE 17



DETAIL 'E'
 SCALE 3:1

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	<p>DESCRIPTION: .8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY</p>	
	<p>DWG. NO. QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX</p>	
	<p>BY: DEAN P 5/05/2000 SHEET 4 OF 5</p>	

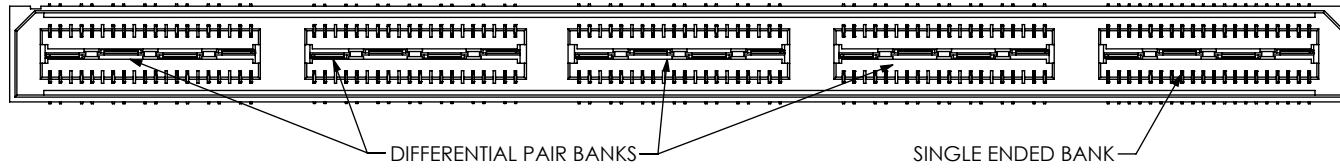


FIG 6
 (**QSE-070-01-XXX-D-DP-A-DDDD)
 (** = SEE NOTE 17)

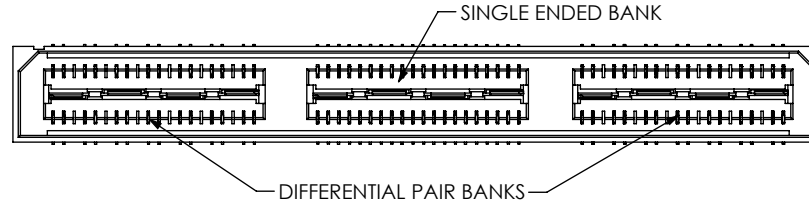
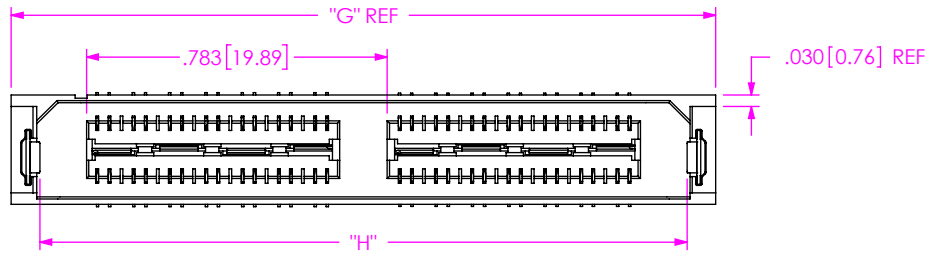


FIG 7
 (QSE-042-01-XXX-D-DP-A-DSD SHOWN)



No OF POS	"G"	"H"	"J"
-014	1.048 [26.61]	.898 [22.80]	.960 [24.38]
-028	1.835 [46.61]	1.685 [42.80]	1.747 [44.37]
-042	N/A	N/A	N/A
**_056	N/A	N/A	N/A
**_070	N/A	N/A	N/A

** = SEE NOTE 17

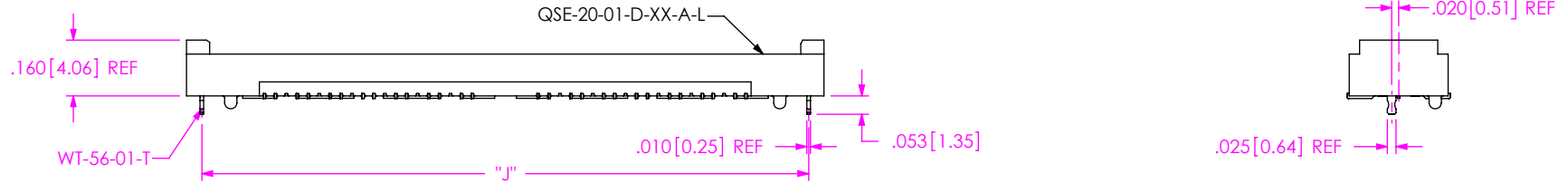


FIG 8
 -L: LATCHING OPTION
 (QSE-020-01-XXX-D-DP-A-L SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (MUST USE -A OPTION) (MAXIMUM 28 POS)
 (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1)

CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE

ASSEMBLY OPERATION	IN-PROCESS INSPECTION
FILL C-126-21	C1, C3, C12
ADD -RT1 OPTION	C4, C6
ADD -L OPTION	C7, C8, C9, C15
ADD -K OPTION	C10, C11

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DWG. NO. QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX

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