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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

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 AVILABLE 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:
1. Ⓒ REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM TERMINAL RETENTION: 5 OZ.
3. MINIMUM GROUND PLANE RETENTION: 8 OZ.
4. PARTS TO BE MOLDED TO POSITION.
5. MAXIMUM VARIANCE: .002 [0.05].
6. DIMENSION APPLIES TO TERMINALS AND GROUND PLANE.
7. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
8. 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.
9. SUB-SC-05-01-XX RETENTION TO BE 1.0 LBF IN BODY.
10. IF ORDERING ALL BANKS DIFFERENTIAL PAIR, LEAVE BLANK. IF ORDERING ALL BANKS STANDARD PIN COUNT, ORDER QSE-XXX-XX-X-D-XXX (STANDARD QSE)
11. PIN COUNT PER ROW= (# -DP BANKS X 14) + (# -S BANKS X 20)
12. MAY SUB C-126-01-XXX FOR C-126-21-XXX.
13. NOTE DELETED.
14. FOR -056, -070 POSITIONS USE C-269-11-XXX. DO NOT SUB C-126.
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. SIDE WALLS ARE RIBBED AS NECESSARY TO CONTROL BOW.
17. AVAILABLE FOR EXISTING CUSTOMERS ONLY.
18. TRAYS STANDARD PACKAGING
19. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
20. 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]

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
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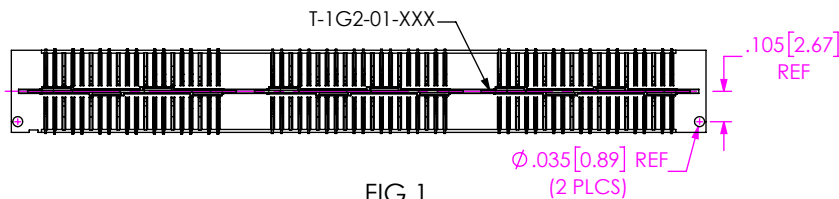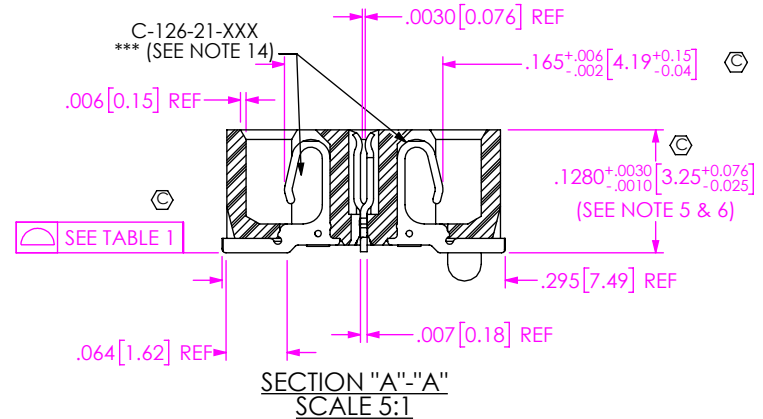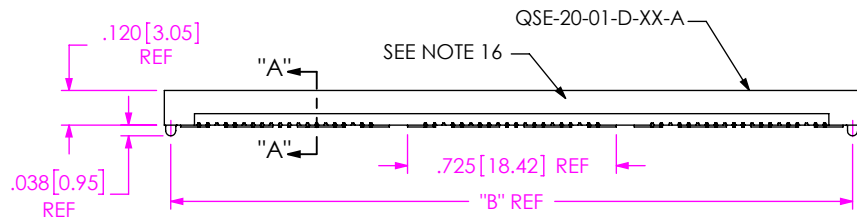e-Mail info@SAMTEC.com   code 55322

DO NOT SCALE DRAWING   SHEET SCALE: 1.5:1

MATERIAL:
INSULATOR: LCP, UL94V0; COLOR: BLACK
CONTACT: PHOS BRONZE
GROUND PLANE: PHOS BRONZE

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

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

BY: DEAN P   5/05/2000   SHEET 1 OF 5

REVISION AU

"A" REF

6 EQ SPACES @ .0945 [2.400]
= .5670[14.402] (TYP)

.0945[2.400]
REF

.7875[20.003] (TYP)

02

.138[3.52] REF

01

.022[0.57] REF

.625[15.88] REF

.285[7.24]
REF

.006[0.14] REF

.032[0.80] REF

.120[3.05]
REF

QSE-20-01-D-XX-A

"A"

SEE NOTE 16

"A"

.725[18.42] REF

.038[0.95]
REF

"B" REF

C-126-21-XXX
*** (SEE NOTE 14)

.0030[0.076] REF

.165$^{+.006}_{-.002}$[4.19$^{+0.15}_{-0.04}$]

.006[0.15] REF

.1280$^{+.0030}_{-.0010}$[3.25$^{+0.076}_{-0.025}$]
(SEE NOTE 5 & 6)

SEE TABLE 1

.295[7.49] REF

.007[0.18] REF

.064[1.62] REF

SECTION "A"-"A"
SCALE 5:1

T-1G2-01-XXX

.105[2.67]
REF

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

Ø.035[0.89] REF
(2 PLCS)

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

DO NOT SCALE DRAWING

SHEET SCALE: 1.5:1

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

REVISION AU

.055[1.40]

.0375[0.953]

.010[0.25] REF

"B" ± .003
(SEE TABLE 2, SHT 1)

LC-08-TM-01

.056[1.42]

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

"R" REF

"S" ± .020

.020±.020[0.51±0.51]

Ø.325[8.26]

.133[3.38]
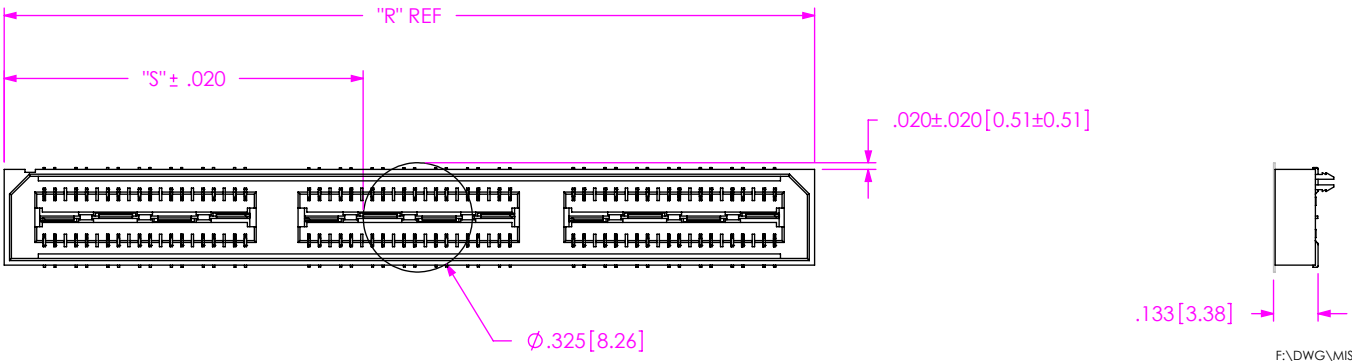
FIG 3
-K: POLYIMIDE FILM PAD
(USE K-DOT-.325-.450-.005)

F:\DWG\MISC\MKTG\QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX-MKT.SLDDRW
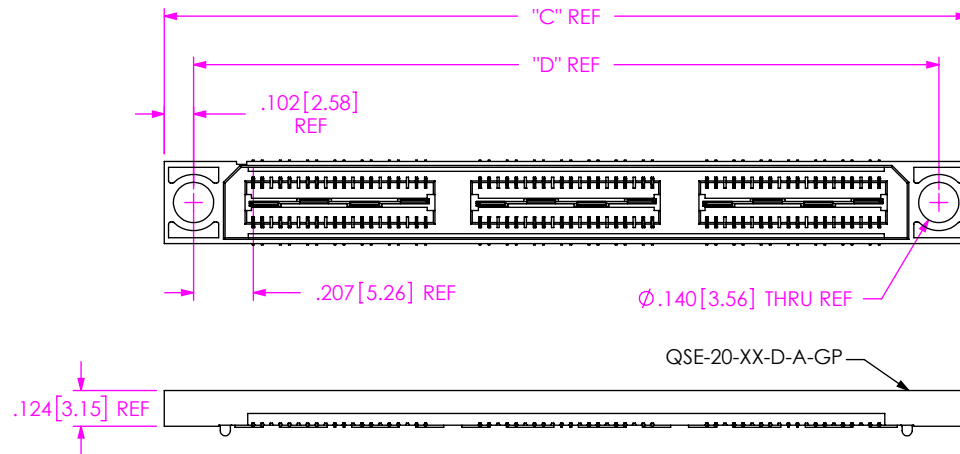
DO NOT SCALE DRAWING

SHEET SCALE: 2:1

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

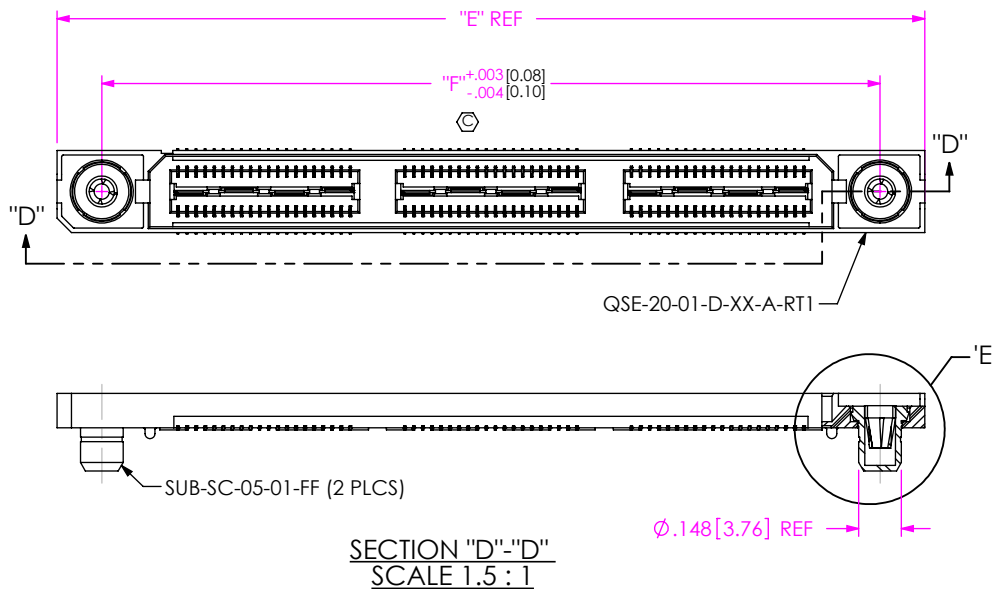BY: DEAN P   5/05/2000   SHEET 3 OF 5

"C" REF
"D" REF
.102[2.58] REF
.207[5.26] REF
Ø.140[3.56] THRU REF
QSE-20-XX-D-A-GP
.124[3.15] REF

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

"E" REF
"F" +.003[0.08] / -.004[0.10]
"D"
"D"
QSE-20-01-D-XX-A-RT1
'E'
SUB-SC-05-01-FF (2 PLCS)
Ø.148[3.76] REF

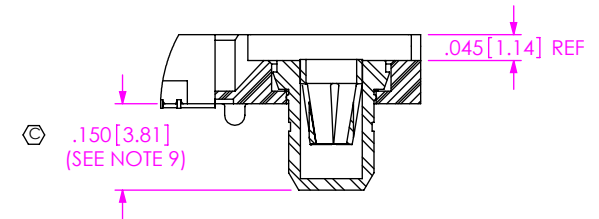SECTION "D"-"D"
SCALE 1.5 : 1

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

.045[1.14] REF
.150[3.81] (SEE NOTE 9)

DETAIL 'E'
SCALE 3 : 1

DO NOT SCALE DRAWING
SHEET SCALE: 2:1

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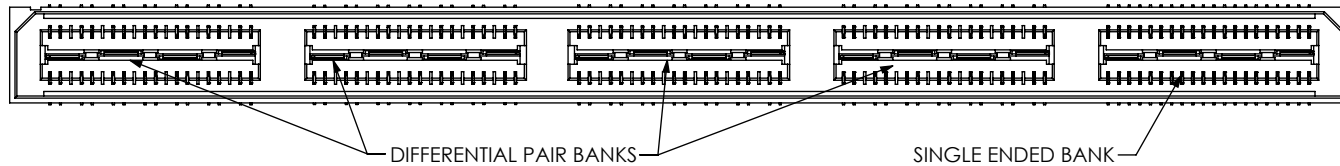QSE-XXX-XX-XXX-D-DP-XXX-XXXXX-X-XX
BY: DEAN P   5/05/2000   SHEET 4 OF 5

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

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

DIFFERENTIAL PAIR BANKS   SINGLE ENDED BANK

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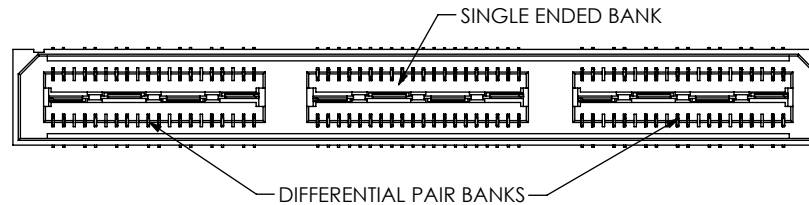
FIG 7
(QSE-042-01-XXX-D-DP-A-DSD SHOWN)

DIFFERENTIAL PAIR BANKS

"G" REF
.783 [19.89]
.030 [0.76] REF

"H"

TABLE 6
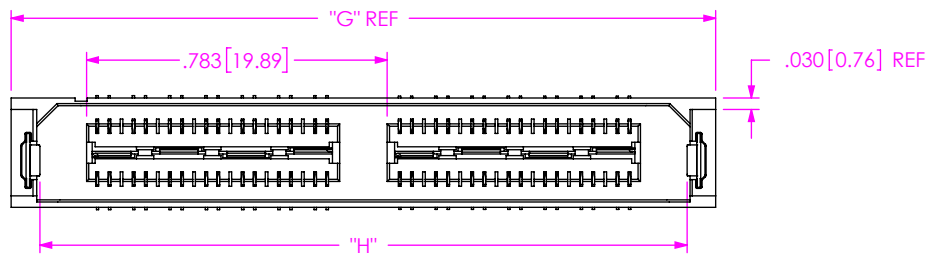
No OF POS	"G"	"H"	"J"
-014	1.048 [26.61]	.898 [22.80]	.960 [24.38]
-028	1.835 [46.61]	1.685 [42.80]	1.747 [44.37]
-042	N/A	N/A	N/A
**-056	N/A	N/A	N/A
**-070	N/A	N/A	N/A

** = SEE NOTE 17

QSE-20-01-D-XX-A-L

.160 [4.06] REF

WT-56-01-T

.010 [0.25] REF

.053 [1.35]
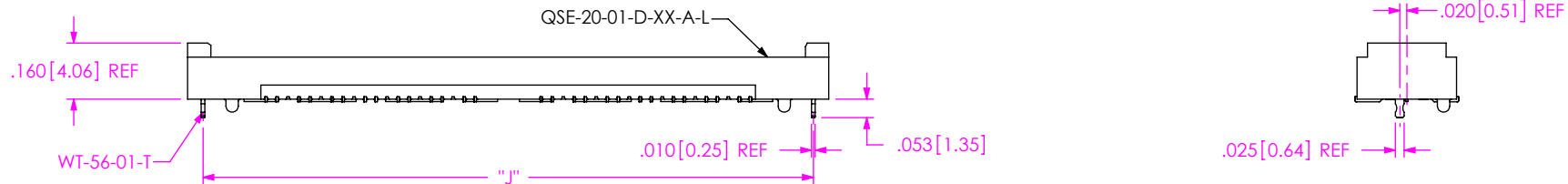
"J"

.020 [0.51] REF

.025 [0.64] REF

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

DO NOT SCALE DRAWING

SHEET SCALE: 1.375:1

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

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