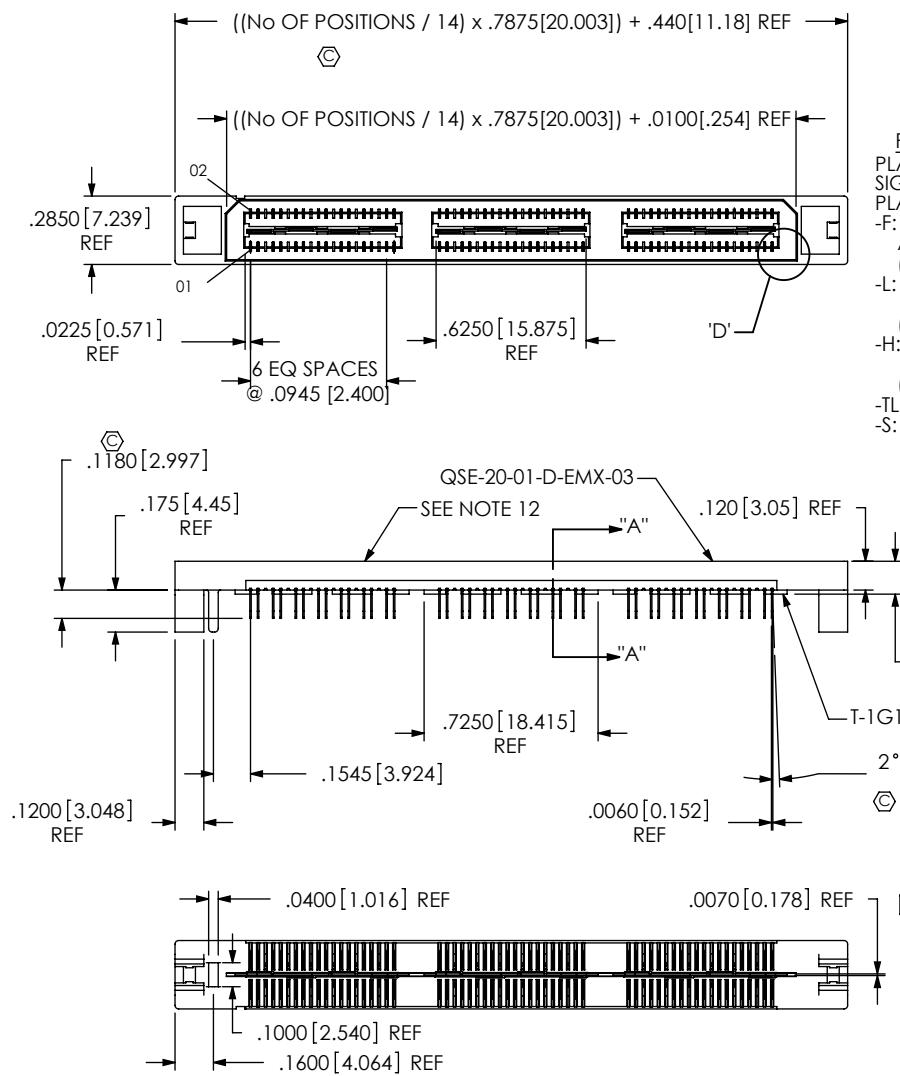




FIG 1  
QSE-042-01-X-D-DP-EMX SHOWN  
**ASO ONLY (APPLICATION SPECIFIC ORDER)**



## NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM CONTACT RETENTION: 6 OZ
3. MINIMUM GROUND PLANE RETENTION: 8 OZ
4. PARTS ARE MOLD TO POSITION.
5. MAXIMUM VARIANCE OF .002[.05]
6. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
7. NOTE DELETED.
8. BOARD THICKNESS TO BE MEASURED FROM SOLDER PAD TO SOLDER PAD.
9. SEE [http://www.samtec.com/processing/edgemnt\\_tectalk/index.htm](http://www.samtec.com/processing/edgemnt_tectalk/index.htm) FOR INFORMATION ON PROCESSING EDGE MOUNT PARTS.
10. -EM3 IS NOT A STANDARD OFFERING; AVAILABLE AS AN ASO ONLY. PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP WITH ORDER INQUIRIES
11. NOTE DELETED.
12. SIDE WALLS ARE RIBBED AS NECESSARY TO CONTROL BOW.
13. AVAILABLE FOR EXISTING CUSTOMERS ONLY.

QSE-XXX-01-X-D-DP-EMX-XX

NO OF PAIRS  
-014, -028, -042  
\*\* -056, \*\*-070  
(PER ROW)  
\*\* SEE NOTE 13

LEAD STYLE  
-01: .1380[3.505]

PLATING SPECIFICATION  
PLATING THICKNESSES ARE FOR SIGNAL PINS ONLY. FOR GROUND  
PLANE THICKNESSES, SEE PP-T-1G13-XX-X.  
-F: 3μ" FLASH SELECTIVE GOLD IN CONTACT  
AREA MATTE TIN ON TAIL (SEE NOTE 6)  
(USE C-162-XX-F & T-1G13-01-F)  
-L: 10μ" LIGHT SELECTIVE GOLD IN CONTACT  
AREA WITH MATTE TIN ON TAIL  
(USE C-162-XX-L & T-1G13-01-L)  
-H: 30μ" HEAVY GOLD IN CONTACT AREA,  
3μ" FLASH GOLD ON TAIL  
(USE C-162-XX-H & T-1G13-01-G)  
-TL: TIN/LEAD (90/10±5%) CONTACT AND TAIL  
-S: 30μ" SELECTIVE GOLD IN CONTACT AREA,  
(USE C-162-XX-S & T-1G13-01-L)  
MATTE TIN ON TAIL

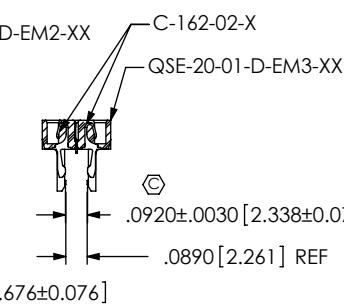
OPTION  
\* -GP: GUIDE POST  
(SEE FIG 3, SHEET 2)  
\* EM3-GP=NOT TOOLED  
EDGE MOUNT THICKNESS  
-EM2: .064[1.63] +/- .004 PCB  
(USE QSE-20-01-D-EM2-XX & C-162-01-X)  
-EM3: (USE QSE-20-01-D-EM3-XX  
& C-162-02-X)  
(SEE NOTE 10)

## DIFFERENTIAL PAIR

## ROW SPECIFICATION

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

No OF BANKS



## SECTION "A-A"

EDGE MOUNT THICKNESS  
-EM2: .064 [1.63] +/- .004 PCB

EDGE MOUNT THICKNESS  
-EM3:  
(DIFFERENT AS SHOWN, OTHERWISE  
SAME AS -EM2 PCB THICKNESS)  
(SEE NOTE 10)

TABLE 1

No OF PAIRS	GND PLANE COPLANARITY	ASSEMBLY BOW
-014 THRU -042	.004 [0.10]	.004 [0.10]
**-056 THRU **-070	.005[1.27]	.005[1.27]

\*\* = SEE NOTE 13

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
DECIMALS ANGLES  
.XX: ±.01[.3] 2°  
.XXX: ±.005[.13]  
.XXXX: ±.0020[.051]

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OBTAINED FROM THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, UL 94VO  
COLOR: BLACK

SHEET SCALE: 1:25:1

DESCRIPTION: .8mm EDGEMOUNT DIFF PAIR HS SOCKET ASSEMBLY

DWG. NO.

QSE-XXX-01-X-D-DP-EMX-XX

BY: DEAN P 4/10/2001

SHEET 1 OF 2

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

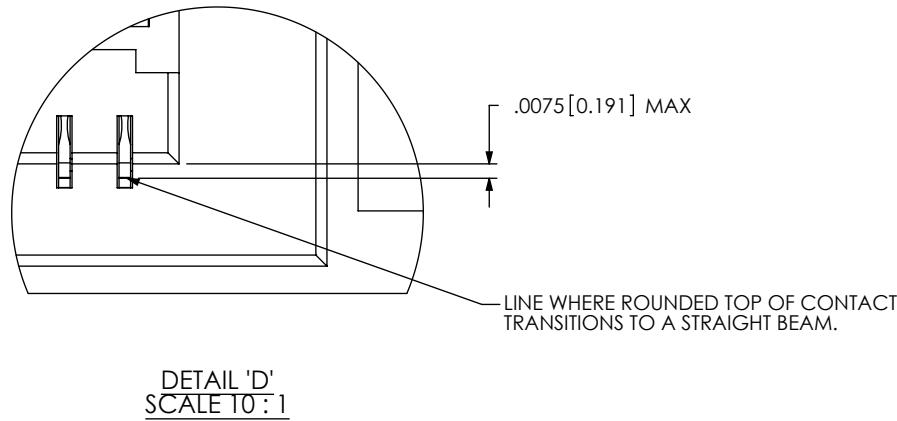
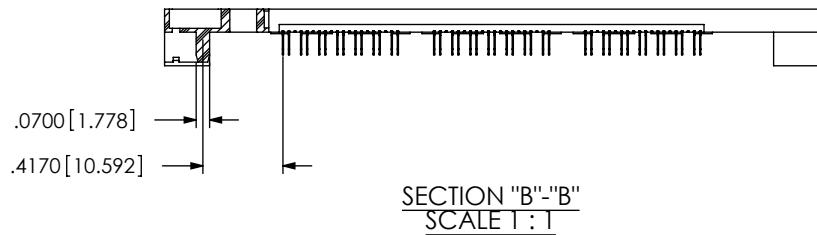
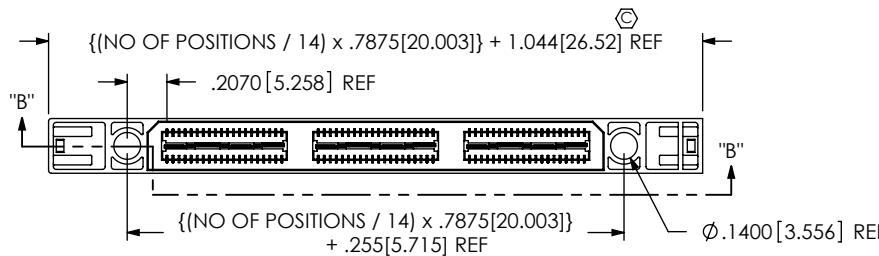


FIG 3  
-GP OPTION  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)  
(42 POSITION MAX)  
(ONLY AVAILABLE WITH -EM2 OPTION)



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SHEET SCALE: 2:1

**Samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: [info@SAMTEC.com](mailto:info@SAMTEC.com) code 55322

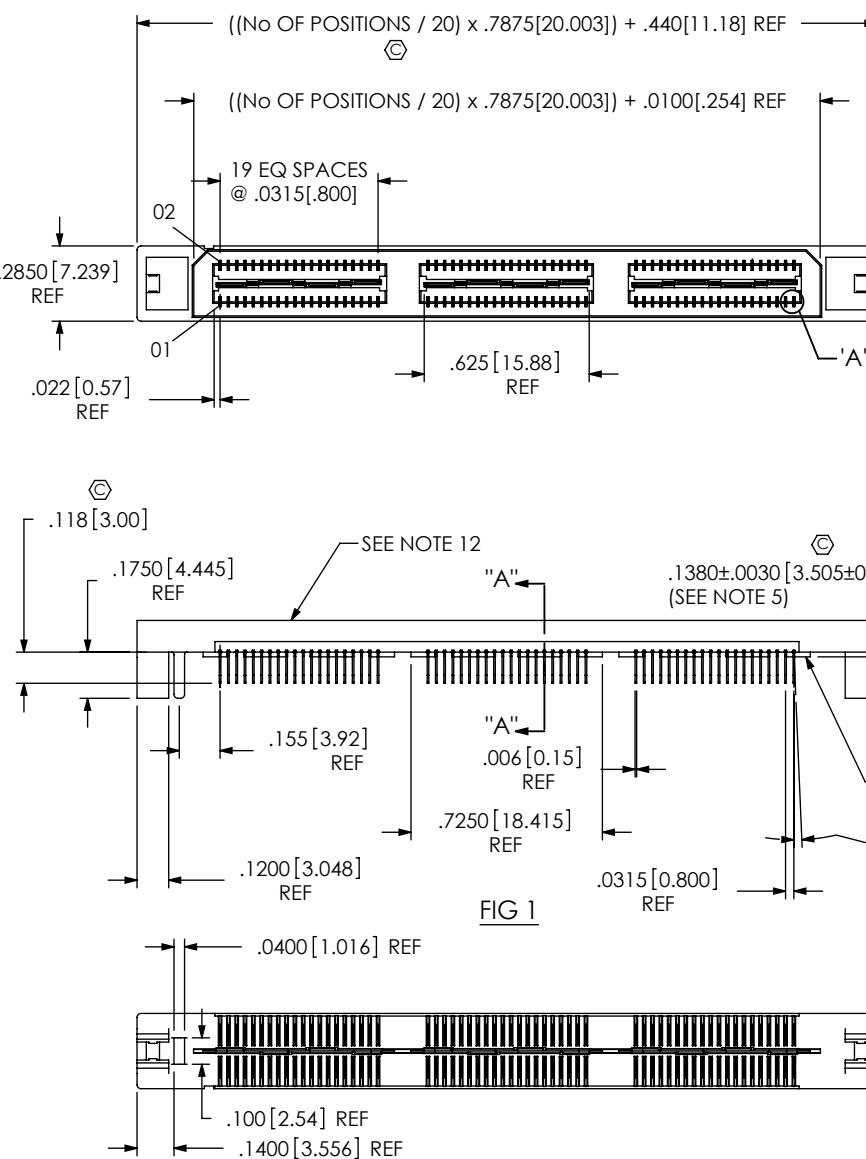
DESCRIPTION: .8mm EDGEMOUNT DIFF PAIR HS SOCKET ASSEMBLY

DWG. NO.

QSE-XXX-01-X-D-DP-EMX-XX

BY: DEAN P 4/10/2001 SHEET 2 OF 2

DO NOT  
SCALE FROM  
THIS PRINT



NOTES:

1.  REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM CONTACT RETENTION: 6 OZ
3. MINIMUM GROUND PLANE RETENTION: 8 OZ
4. PARTS ARE MOLD TO POSITION.
5. MAXIMUM VARIANCE OF .002[0.05]
6. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
7. NOTE DELETED.
8. BOARD THICKNESS TO BE MEASURED FROM SOLDER PAD TO SOLDER PAD.
9. SEE [WWW.SAMTEC.COM/PROCESSING/EDGEMOUNTTECTALK/INDEX.HTM](http://WWW.SAMTEC.COM/PROCESSING/EDGEMOUNTTECTALK/INDEX.HTM) FOR INFORMATION ON PROCESSING EDGEMOUNT PARTS TO BOARDS.
10. -EM3 IS NOT A STANDARD OFFERING; AVAILABLE AS AN ASP ONLY.  
PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP WITH ORDER INQUIRIES
11. NOTE DELETED.
12. SIDE WALLS ARE RIBBED AS NECESSARY TO CONTROL BOW.
13. AVAILABLE FOR EXISTING CUSTOMERS ONLY.

NO OF POSITIONS \_\_\_\_\_  
-020, -040, -060  
\*\*-080, \*\*-100  
(PER ROW)  
LEAD STYLE \_\_\_\_\_  
-01:1380 [3.505]

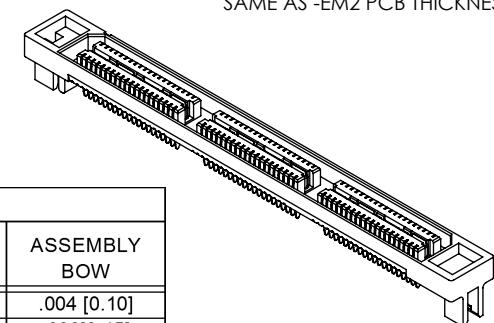
PLATING SPECIFICATION

LATING THICKNESSES ARE FOR  
IGNAL PINS ONLY. FOR GROUND  
LANE THICKNESSES, SEE PP-T-1G13-XX-X.  
F: 3u" FLASH SELECTIVE GOLD IN CONTACT  
AREA MATTE TIN ON TAIL (SEE NOTE 6)  
(USE C-162-XX-F & T-1G13-01-F)  
L: 10u" LIGHT SELECTIVE GOLD IN CONTACT  
AREA WITH MATTE TIN ON TAIL  
(USE C-162-XX-L & T-1G13-01-L)  
H: 30u" HEAVY GOLD IN CONTACT AREA  
3u" FLASH GOLD ON TAILS  
(USE C-162-XX-H & T-1G13-01-G)  
TL: TIN/LEAD (90/10±5%) CONTACT AND TA  
S: 30u" SELECTIVE GOLD IN CONTACT AREA  
MATTE TIN ON TAIL  
(USE C-162-XX-S & T-1G13-01-L)

- OPTION
  - \* -GP: GUIDE POST (60 POS MAX)  
(SEE FIG 2, SEE SHEET 2)
  - TY: TRAY PACKAGING
  - \* EM3-GP = NOT TOOLED
- EDGE MOUNT THICKNESS
  - EM2: .064[1.63] +/- .004 PCB  
(USE QSE-20-01-D-EM2-XX & C-162-01-X)
  - EM3:  
**(USE QSE-20-01-D-EM3-XX & C-162-02-X)**  
**(SEE NOTE 10)**
- ROW SPECIFICATION
  - D: DOUBLE (USE QSE-20-01-D-EMX-XX)

\* = SEE NOTE 10  
\*\* = SEE NOTE 13

SECTION "A"- "A"



---

**TABLE**

TABLE 1		
No OF POSITIONS	GND PLANE COPLANARITY	ASSEMBLY BOW
-020 THRU -060	.004 [0.10]	.004 [0.10]
**-080 THRU **-100	.005[1.27]	.006[0.15]

\*\* = SEE NOTE 13

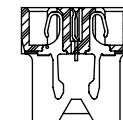
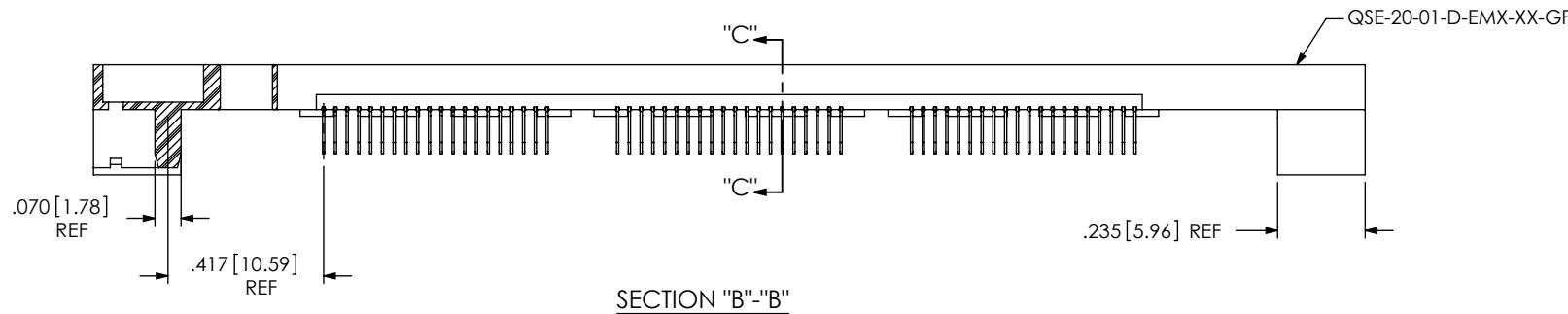
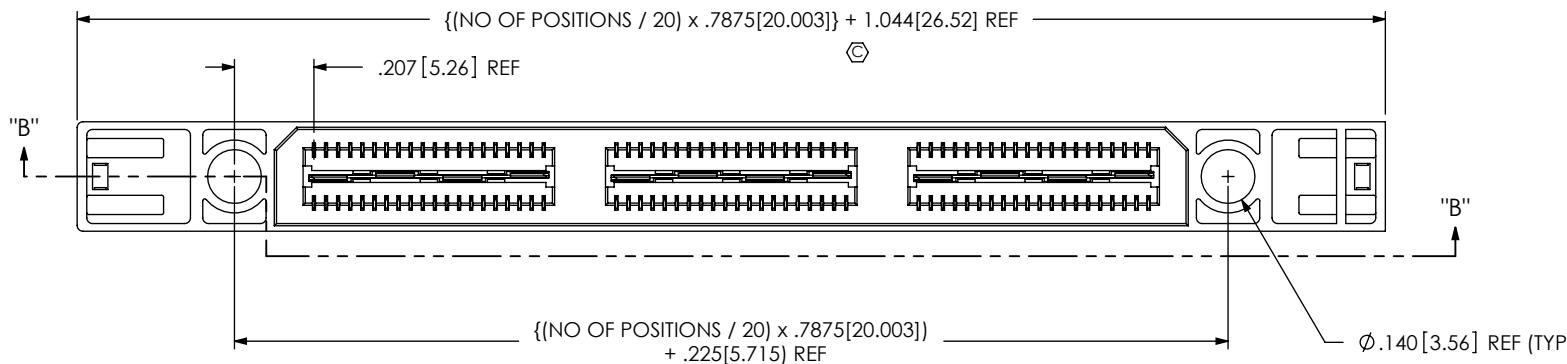
UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
DECIMALS                    ANGLES  
.XX: ±.01[.3]                    2°  
.XXX: ±.005[.13]  
XXXX: ±.0002[.051]

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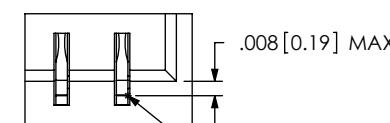
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FIG 2

-GP: GUIDE POST  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(60 POSITION MAX)  
(ONLY AVAILABLE WITH -EM2 OPTION)



SECTION "C"- "C"



DETAIL 'A'  
SCALE 10 : 1  
LINE WHERE ROUNDED TOP  
OF CONTACT TRANSITIONS  
TO STRAIGHT BEAM

CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE	
ASSEMBLY OPERATION	IN-PROCESS INSPECTION
FILL C-162-XX-X	C1, C2, C4*, C5*, C7, C8
FILL T-1G13-01-X	C6
WHERE APPLICABLE *	

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SHEET SCALE: 2:1

**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:  
.8mm EDGE MOUNT HS SOCKET ASSEMBLY

DWG. NO.  
QSE-XXX-01-X-D-EMX-XX

BY: DEAN P 5/24/2000 SHEET 2 OF 2