

DO NOT
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THIS PRINT

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]

AK

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

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

No OF POSITIONS —
(SEE NOTES 11, 13 & 14)
-014, -028, -042, **056, **070
(PER ROW)
AK ** = SEE NOTE 13

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)

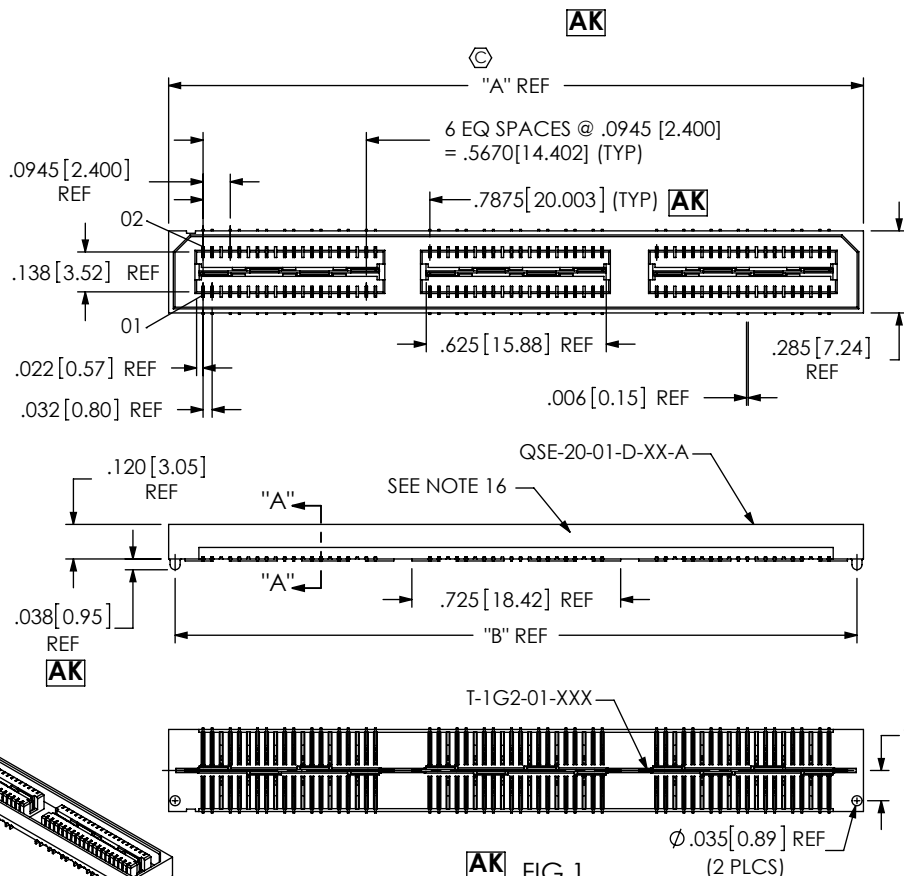
PIN COUNT, BANKS 1-5
(SEE NOTE 11)
-S: STANDARD
-D: DIFFERENTIAL
(SEE NOTE 10 & FIG 6, SHT 4)
OPTION
-A: ALIGNMENT PINS
(USE QSE-20-01-D-XX-A)
(NOT AVAILABLE WITH -LC)
-LC: LOCKING CLIPS (SEE NOTE 15)
(USE LC-08-TM-01, SEE FIG 2, SHT 2)
(NOT AVAILABLE WITH -A)
-K: POLYIMIDE FILM
(USE K-DOT-.325-.450-.005, SEE FIG 3, SHT 2)
-TR: TAPE & REEL (42 POS MAX)
(28 POS MAX FOR -GP)
-GP: GUIDE POSTS
(USE QSE-20-XX-D-GP, SEE FIG 4, SHT 3)
-RT1: RETENTION (MUST USE -A OPTION)
(USE QSE-20-01-D-XX-A-RT1 & SUB-SC-05-01-FF) (SEE FIG 5, SHT 3)
(NOT AVAILABLE WITH -LC OR -GP)
(NOT AVAILABLE IN 056 OR 070 POS)
-L: LATCHING OPTION (28 POS MAX) (SEE FIG 8, SHT 4) (MUST USE -A OPTION) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1) AK

BODY STYLE
-DP: DIFFERENTIAL PAIRS

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

* = NOT TOOLED
** = SEE NOTE 13

No OF BANKS

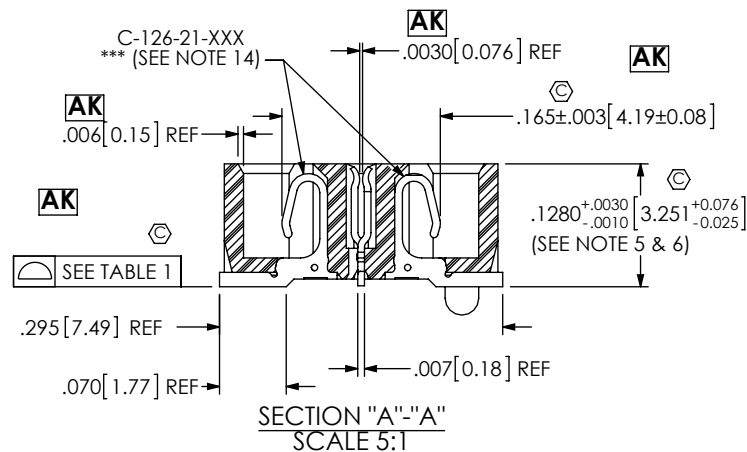


AK FIG 1

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

NOTES:

1. © REPRESENTS A CRITICAL DIMENSION.
2. MIN TERMINAL RETENTION: 5 OZ.
3. MIN GROUND PLANE RETENTION: 8 OZ.
4. PARTS TO BE MOLDED TO POSITION.
5. MAX 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. FOR NEW APPLICATIONS REQUIRING THESE POSITIONS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
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.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01 [25]
.XXX: ±.005 [13]
.XXXX: ±.0020 [05]

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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 AK
CONTACT: PHOS BRONZE
GROUND PLANE: PHOS BRONZE

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

BY: DEAN P 5/05/2000 SHEET 1 OF 4

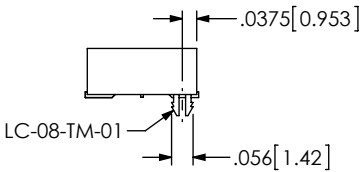
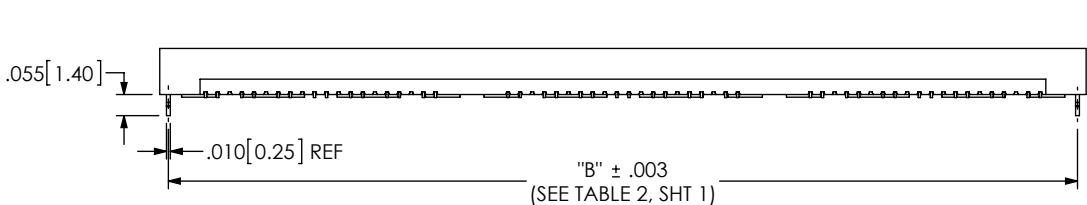


FIG 2 AK
-LC: LOCKING CLIP OPTION
(QSE-042-01-XXX-D-DP-LC SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

AK

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]

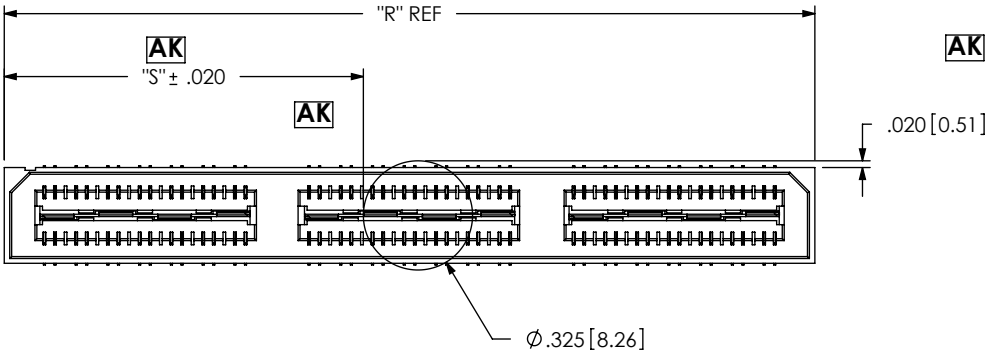


FIG 3
-K: POLYIMIDE FILM PAD
(USE K-DOT-.325-.450-.005)

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

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	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 DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY	
	DWG. NO. QSE-XXX-XX-XXX-D-DP-XXXXX	
BY: DEAN P	5/05/2000	SHEET 2 OF 4

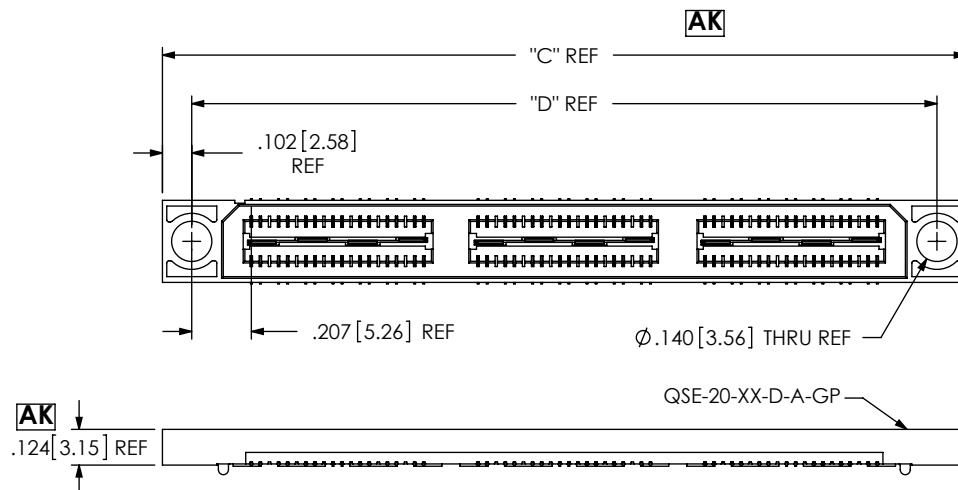


FIG 4
-GP OPTION
(QSE-042-01-XXX-D-DP-GP SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(AVAILABLE ON LEAD STYLES -01 & -01-A ONLY)
(28 POSITION MAX FOR TAPE & REEL PACKAGING)

AK

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]

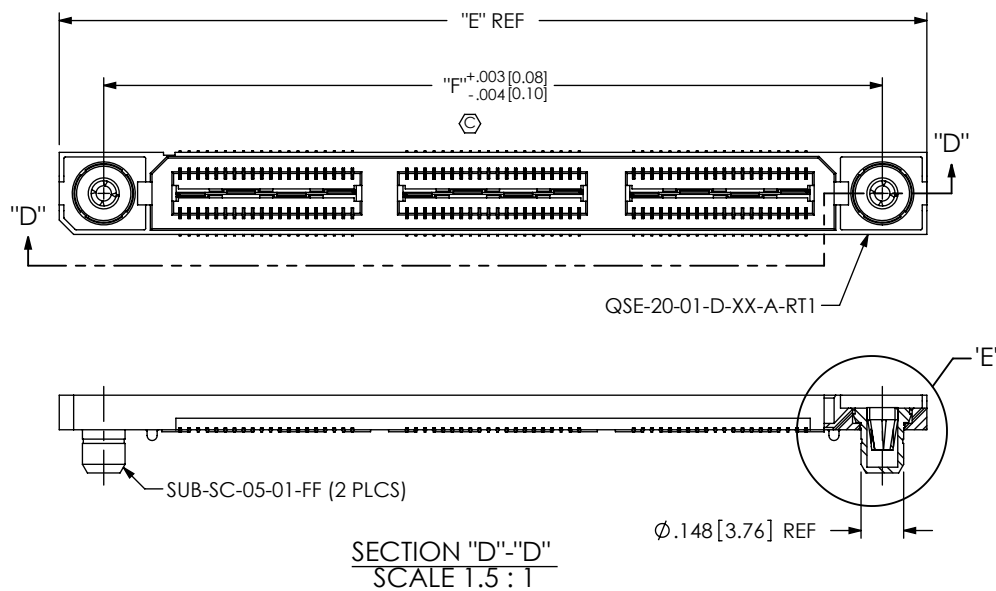
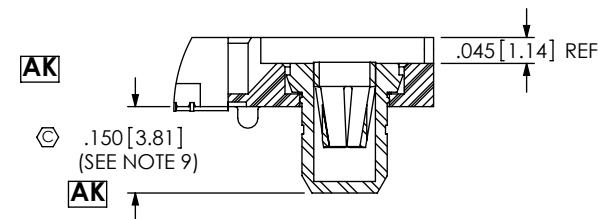


FIG 5
-RT1: RETENTION OPTION
(QSE-042-01-XXX-D-DP-A-RT1 SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(MUST USE -A OPTION)
(NOT AVAILABLE WITH -LC OR -GP OPTIONS)
(NOT AVAILABLE WITH -056 & -070)

AK

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



DETAIL 'E'
SCALE 3 : 1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

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

BY: DEAN P 5/05/2000 SHEET 3 OF 4

FIG 6
(QSE-070-01-XXX-D-DP-A-DDDDS)

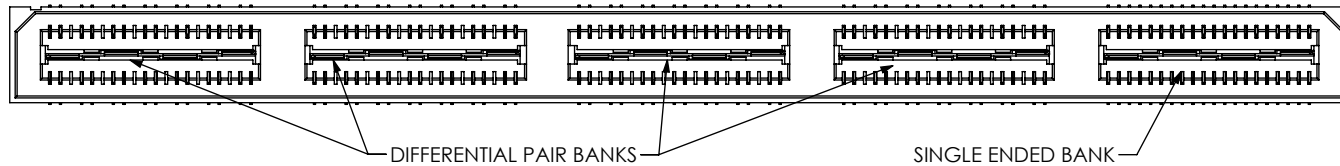
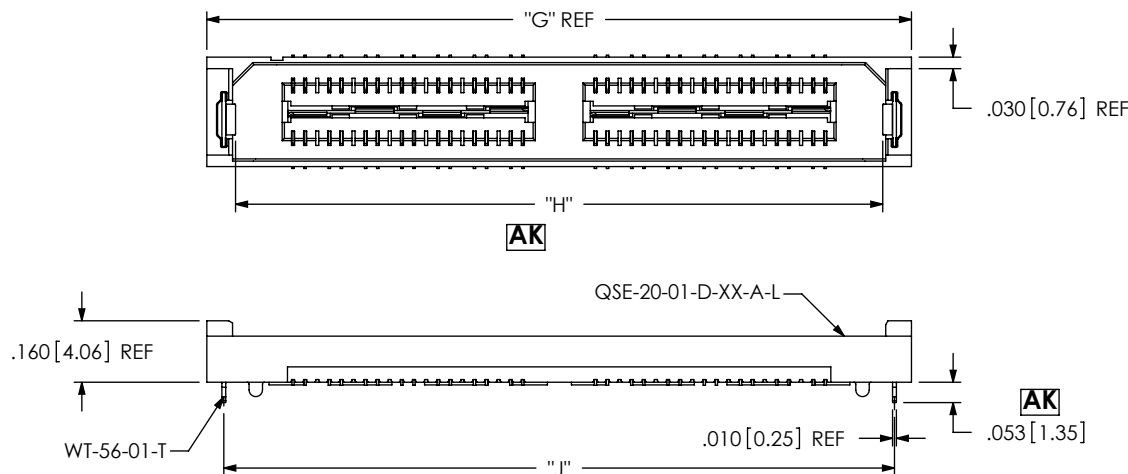
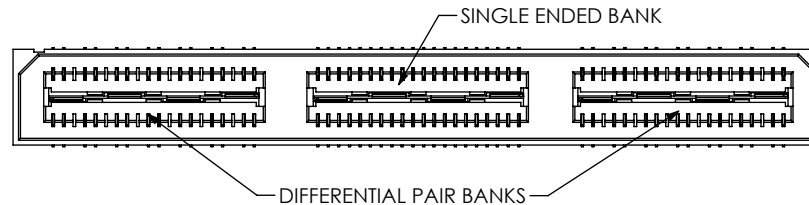


FIG 7
(QSE-042-01-XXX-D-DP-A-DSD SHOWN)



AK

TABLE 6			
No OF POS	"G"	"H"	"J"
-014	1.048 [26.61]	.898 [22.80]	.172 [4.36]
-028	1.835 [46.61]	1.685 [42.80]	0.959 [24.36]
-042	N/A	N/A	N/A
-056	N/A	N/A	N/A
-070	N/A	N/A	N/A

AK

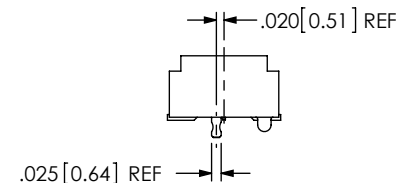


FIG 8
-L: LATCHING OPTION
(QSE-020-01-XXX-D-DP-A-L SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(MUST USE -A OPTION) (MAXIMUM 28 POS) (NOT AVAILABLE WITH -LC, -GP, -FL, OR -RT1)

AK

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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DESCRIPTION:

.8mm DIFFERENTIAL PAIRS HS SOCKET ASSEMBLY

DWG. NO.

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

BY: DEAN P

5/05/2000

SHEET 4 OF 4