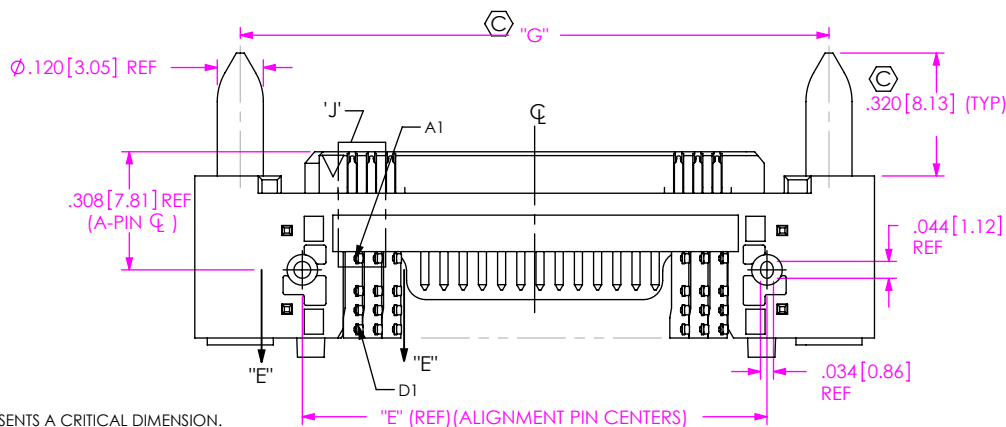
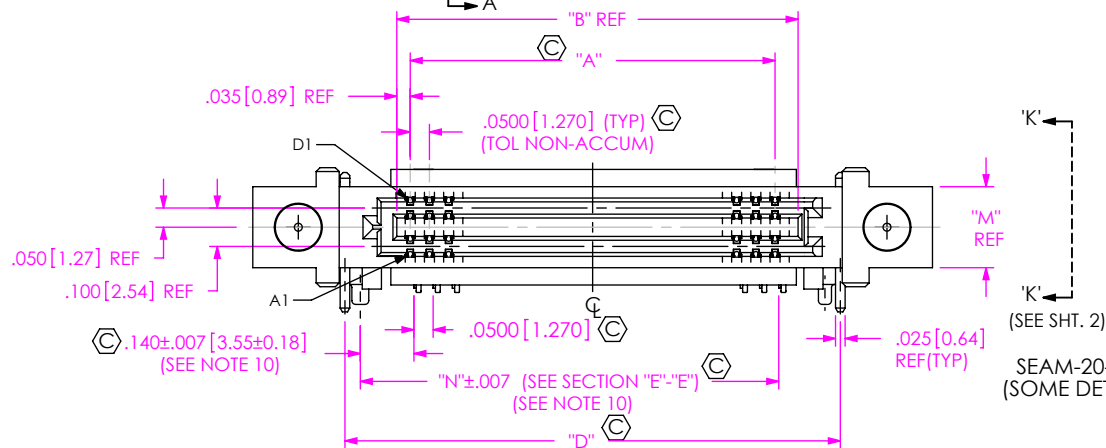
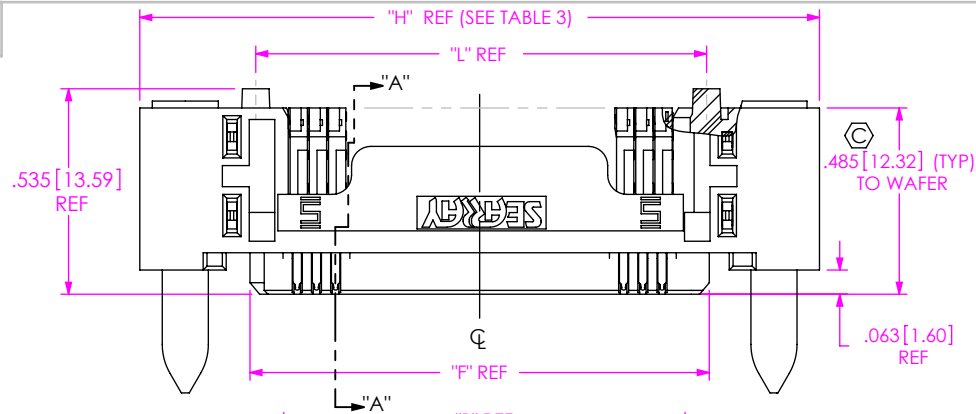


DO NOT
SCALE FROM
THIS PRINT

NOTES:

1. C REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSH-OUT FORCE: .50 LBS [2.2N].
3. INSPECT DIMENSION AT FIRST POSITION WAFER LOCATION ONLY, FIRST AND LAST PIN.
4. FINISHED ORDER QUANTITY LESS THAN 125 PIECES AND NOT IN FULL REEL INCREMENTS WILL NOT HAVE A LEADER ON TRAILER OR TRAILER AND MAY NOT BE ON A REEL.
5. NOTE DELETED
6. NOTE DELETED
7. ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
8. NOTE DELETED
9. ON -08 & -10 ROW ASSEMBLIES, SEE FIG 8, SHEET 5 FOR CAT FIXTURE VIEW
10. CHECK DIMENSION ON FIRST AND LAST ROW OF TAILS.
11. A 20-30°C TEMPERATURE DIFFERENCE MAY EXIST BETWEEN THIS HIGH-DENSITY COMPONENT AND THE BOARD SURFACE DURING REFLOW. SAMTEC RECOMMENDS A THERMAL STUDY BE PERFORMED TO UNDERSTAND THE TEMPERATURE GRADIENTS YOU MAY EXPERIENCE
12. MINIMUM GUIDE POST PUSH-OUT FORCE: 4 LBS [17.8N].
13. SOME RELAXATION/WARPING OF THE BACKSTRAP IS ACCEPTABLE AFTER PROCESSING.
14. SEE SHEET 5 FOR PROCESSING INFORMATION.

SEAM-XX-XX-X-XX-X-RA-XX-TR

No. OF POSITIONS
-20, -30, -40, -50
(PER ROW)LEAD STYLE
-01PLATING SPECIFICATION
-S: SELECTIVE GOLD,
MATTE TIN ON TAILS
(USE SUB-IM-T-1M64-01-XX-S-X)
-L: LIGHT SELECTIVE GOLD,
MATTE TIN ON TAILS
(USE SUB-IM-T-1M64-XX-L-X)No. OF ROWS
-04, -06, *-08, *-10
(* = SEE NOTE 9)PACKAGING
-TR: TAPE & REEL
(STANDARD PACKAGING)
(SEE NOTE 4 AND 7)OPTIONS
-GP: GUIDE POST
(SEE NOTE 12)
-K: PADSOLDER COMPOSITION C
& STYLE
-1: 63% TIN / 37% LEAD CHARGE TAIL
(USE SUB-IM-T-1M64-XX-XX-X-1)
-2: 95.5% TIN / 3.8 SILVER / 0.7% COPPER
LEAD FREE CHARGE TAIL
(USE SUB-IM-T-1M64-XX-XX-X-2)

PATENT NUMBERS

7,052,337 / 7,125,293
7,172,438 / 7,377,795
7,837,522"K"
"K"
(SEE SHT. 2)FIG 1
SEAM-20-01-X-04-X-RA-GP SHOWN
(SOME DETAIL OMITTED FOR CLARITY)

TABLE 7				
STYLE	No. OF ROWS	"M"		
WITH -GP OPTION	-04	0.211	[5.36]	
	-06	0.311	[7.90]	
	-*08	0.411	[10.44]	
	-*10	0.511	[12.98]	

(* = SEE NOTE 9)

TABLE 3					
STYLE	No. OF POS PER ROW	"G"		"H"	
WITH -GP OPTION	-20	1.533	[38.94]	1.770	[44.96]
	-30	2.033	[51.64]	2.270	[57.66]
	-40	2.533	[64.34]	2.770	[70.36]
	-50	3.033	[77.04]	3.270	[83.06]
WITHOUT -GP OPTION	-20	N/A		1.440	[36.58]
	-30			1.940	[49.28]
	-40			2.440	[61.98]
	-50			2.940	[74.68]

TABLE 2					
No. OF ROWS	"BODY CALLOUT"	"TERMINAL WAFER"	"WELD TAB"	"C"	
-04	SEAM-XX-01-RA-04-XX	SUB-IM-T-1M64-01-04-XX	WT-28-01-T	0.205	[5.21]
-06	SEAM-XX-01-RA-06-XX	SUB-IM-T-1M64-01-06-XX	WT-28-02-T	0.305	[7.75]
*08	SEAM-XX-01-RA-08-XX	SUB-IM-T-1M64-01-08-XX	WT-83-01-T	0.405	[10.29]
*10	SEAM-XX-01-RA-10-XX	SUB-IM-T-1M64-01-10-XX	WT-83-02-T	0.505	[12.83]

(* = SEE NOTE 9)

TABLE 1							
No. OF POS. PER ROW	"A"	"B"	"D"	"E"	"F"	"N"	
-20	0.950 [24.13]	1.045 [26.54]	1.290 [32.77]	1.210 [30.73]	1.196 [30.38]	1.090 [27.69]	
-30	1.450 [36.83]	1.545 [39.24]	1.790 [45.47]	1.710 [43.43]	1.696 [43.08]	1.590 [40.39]	
-40	1.950 [49.53]	2.045 [51.94]	2.290 [58.17]	2.210 [56.13]	2.196 [55.78]	2.090 [53.09]	
-50	2.450 [62.23]	2.545 [64.64]	2.790 [70.87]	2.710 [68.83]	2.696 [68.48]	2.590 [65.79]	

TABLE 8						
No. OF ROWS	"L"					"BACK STRAP"
	20 POS	30 POS	40 POS	50 POS		
-04	1.174 [29.82]	1.674 [42.52]	2.174 [55.22]	2.674 [67.92]		N/A
-06, *-08, *-10	N/A	N/A	N/A	N/A		SEAX-RA-BS-XX-01

(* = SEE NOTE 9)

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES
.XX: ±.01 [0.3]
.XXX: ±.005 [0.13]
.XXXX: ±.0020 [0.051]

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.

MATERIAL: DO NOT SCALE DRAWING

SHEET SCALE: 2:1

INSULATOR: LCP, COLOR: BLACK, UL 94 V-0
CONTACT: COPPER ALLOY .006 THICK

DESCRIPTION:

SEAM-RA ASSEMBLY

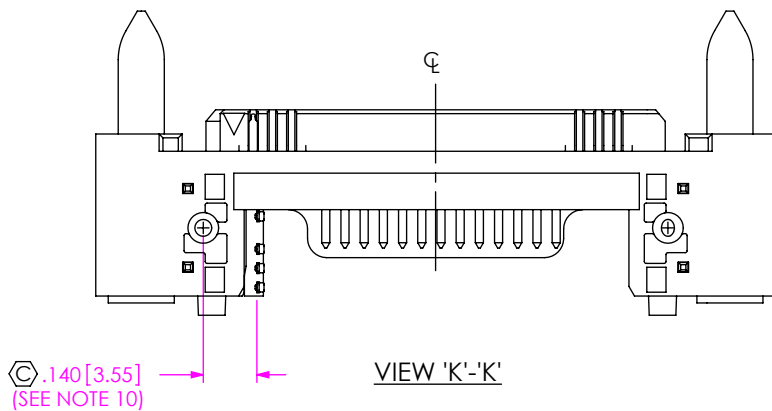
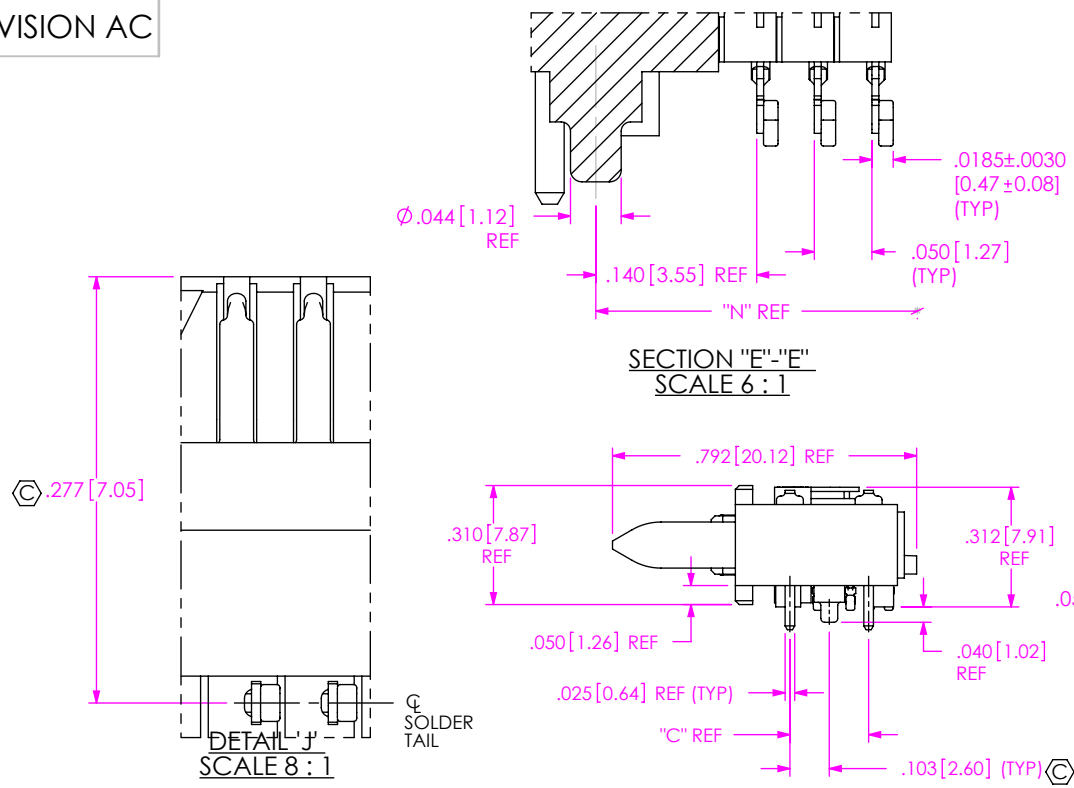
DWG. NO.

SEAM-XX-XX-X-XX-X-RA-XX-TR

BY: R MUSSER 06/27/2008 SHEET 1 OF 5

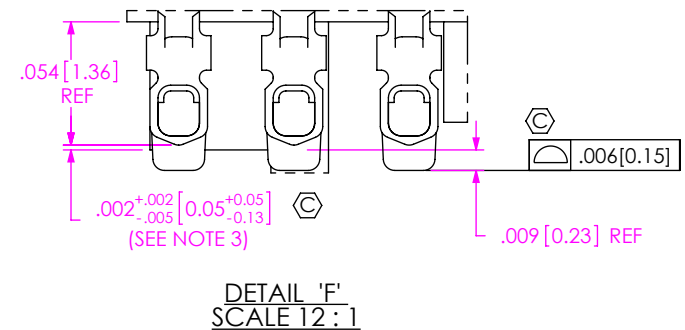
samtec

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



IN-PROCESS VIEW
(SEAM-20-01-X-04-X-RA-GP)
(FILL FIRST WAFER TO DIMENSION SHOWN)

F:\DWG\MISC\MKTG\SEAM-XX-XX-X-XX-X-RA-XX-TR-MKT.SLDRW



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.

DO NOT SCALE DRAWING

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:
SEAM-RA ASSEMBLY

DWG. NO.
SEAM-XX-XX-X-XX-X-RA-XX-TR

BY: R MUSSER 06/27/2008 SHEET 2 OF 5

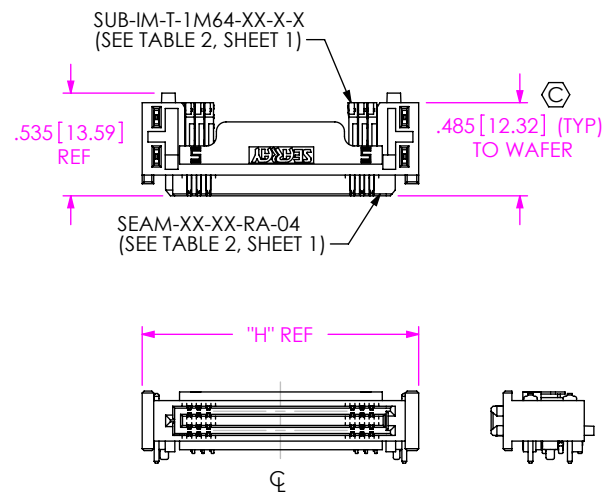


FIG 2
(SEAM-20-01-X-04-X-RA SHOWN)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

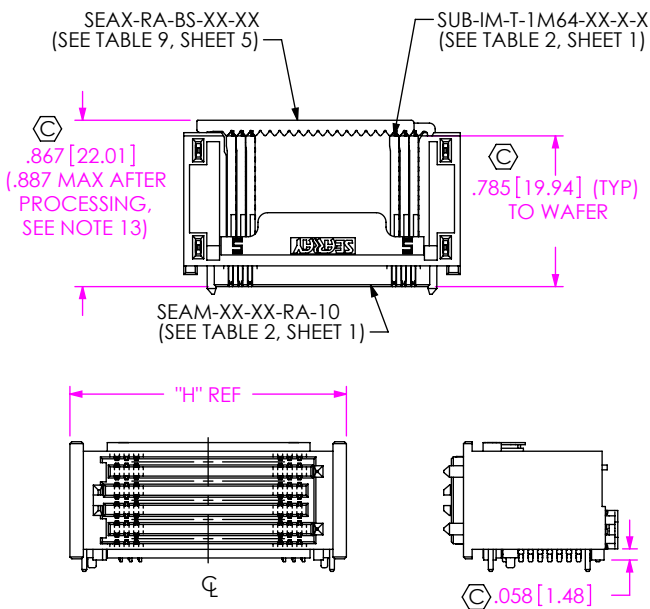


FIG 7
(SEAM-20-01-X-10-X-RA SHOWN)
(SAME AS FIG 4 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

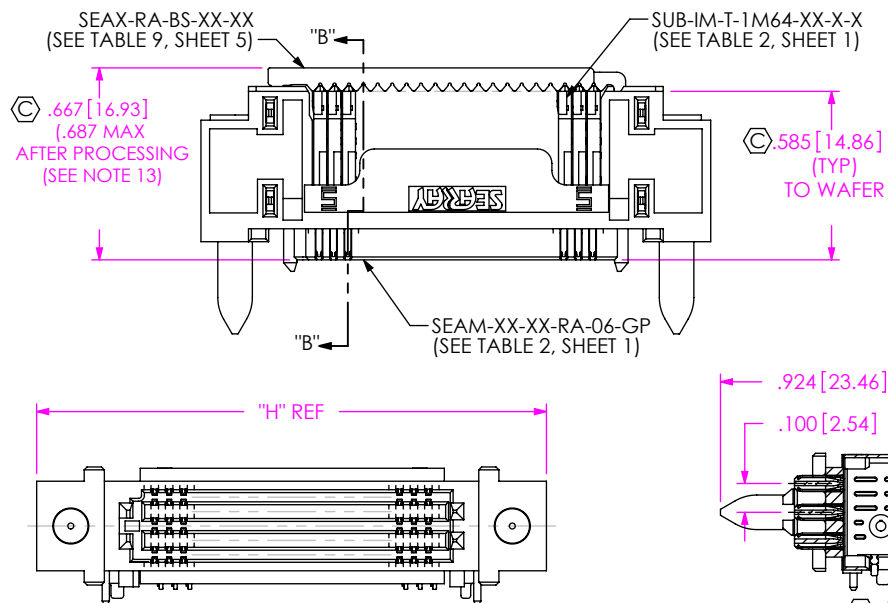
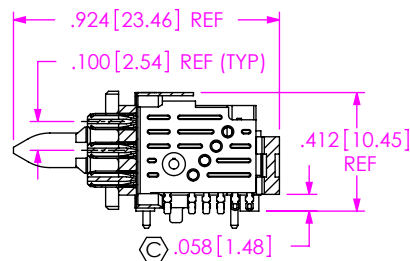
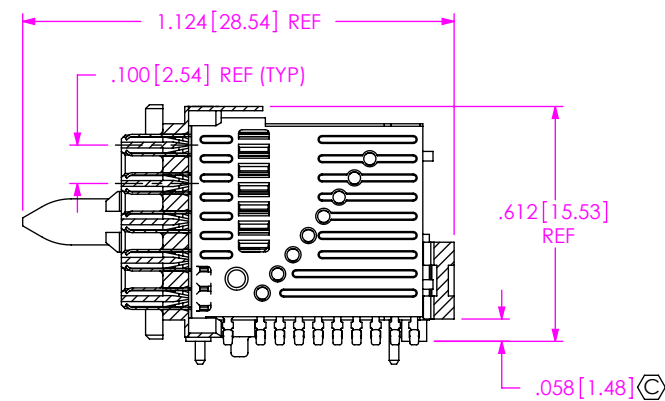
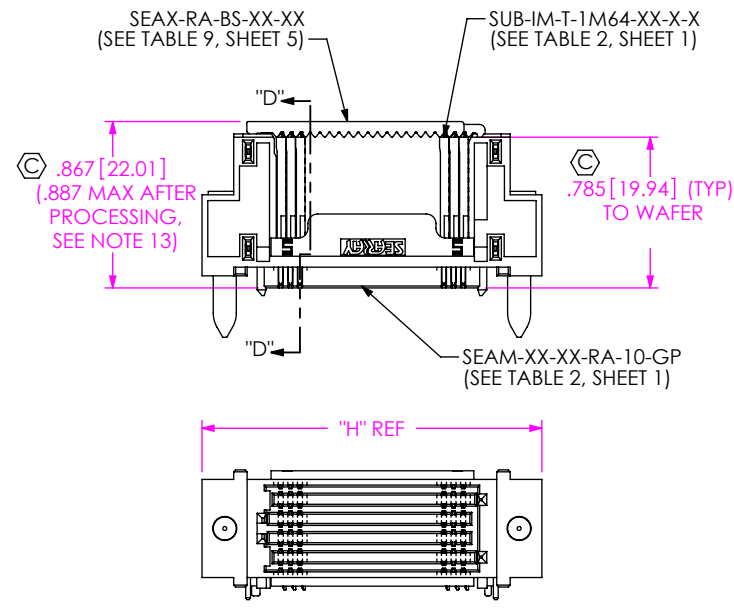


FIG 3
(SEAM-20-01-X-06-X-RA-GP)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)



SECTION "B"-"B"
SCALE 1.5:1



SECTION "D"-"D"
SCALE 2:1

FIG 4
(SEAM-20-01-X-10-X-RA-GP)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

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.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

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:
SEAM-RA ASSEMBLY

DWG. NO.
SEAM-XX-XX-X-XX-X-RA-XX-TR

BY: R MUSSER 06/27/2008 SHEET 3 OF 5

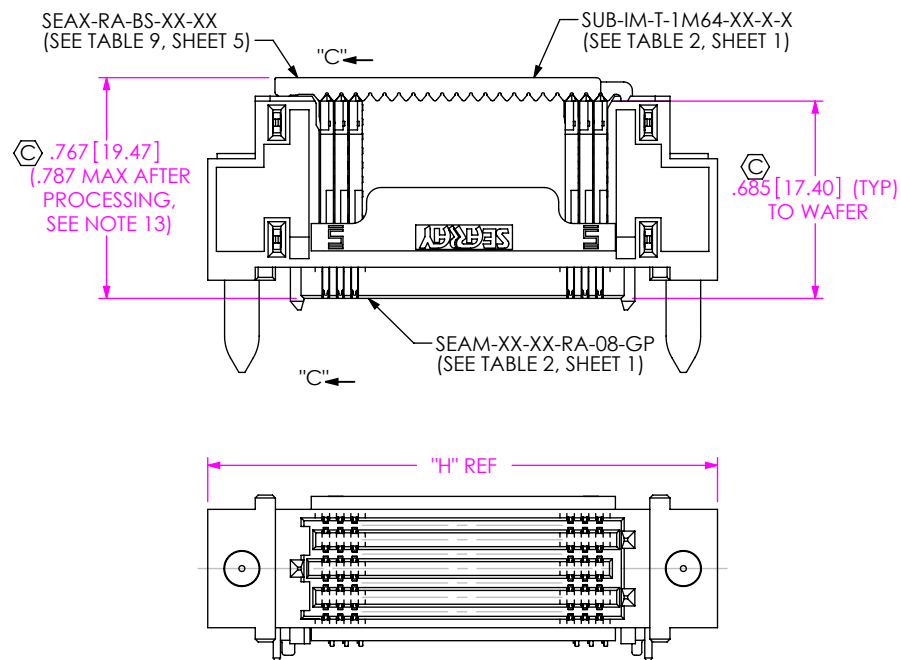


FIG 5
(SEAM-20-01-X-08-X-RA-GP)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

	TABLE 5												
ROWS	"K"		"P" DIA.		"J" NO -GP OPTION				"J" WITH -GP OPTION				"Q"
					20 POS	30 POS	40 POS	50 POS	20 POS	30 POS	40 POS	50 POS	
-04	.317	[8.05]	.295	[7.49]	.573 [14.54]	.823 [20.89]	1.073 [27.24]	1.323 [33.59]	.738 [18.73]	.988 [25.08]	1.238 [31.43]	1.488 [37.78]	.128 [3.25]
-06	.417	[10.59]	.295	[7.49]	.573 [14.54]	.823 [20.89]	1.073 [27.24]	1.323 [33.59]	.738 [18.73]	.988 [25.08]	1.238 [31.43]	1.488 [37.78]	.128 [3.25]
-08	.524	[13.31]	.649	[16.48]	.396 [10.05]	.646 [16.40]	.896 [22.75]	1.146 [29.10]	.561 [14.24]	.811 [20.59]	1.061 [26.94]	1.311 [33.29]	.030 [0.76]
-10	.624	[15.85]	.649	[16.48]	.396 [10.05]	.646 [16.40]	.896 [22.75]	1.146 [29.10]	.561 [14.24]	.811 [20.59]	1.061 [26.94]	1.311 [33.29]	.030 [0.76]

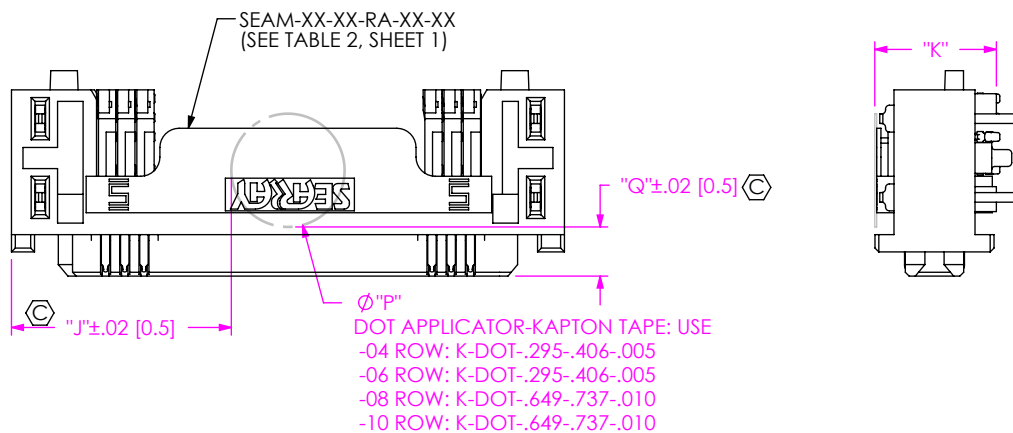


FIG 6
-K OPTION
(USE K-DOT-.XXX-.XXX-.XXX)
(SEAM-20-01-X-04-X-RA-K SHOWN)

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.	samtec 520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code 55322
DO NOT SCALE DRAWING	DESCRIPTION: SEAM-RA ASSEMBLY
SHEET SCALE: 2:1	DWG. NO. SEAM-XX-XX-X-XX-X-RA-XX-TR
	BY: R MUSSER 06/27/2008 SHEET 4 OF 5

NOTE:
FIG 8, DIMENSION "R" INDICATES CONNECTOR/FIXTURE HEIGHT ON PCB.
TO GUARANTEE ENOUGH REFLOW OVEN WORKING SPACE, DIMENSION "R",
PCB THICKNESS, AND THE HEIGHT OF THE COMPONENTS ON THE OPPOSITE
SIDE OF THE BOARD NEED TO BE CONSIDERED.

TABLE 10		
SEARAY FIXTURE TOOLS		
PART NUMBER	POSITIONS	ROW
CAT-SEAM-20-08-RA	-20	-08
CAT-SEAM-30-08-RA	-30	-08
CAT-SEAM-40-08-RA	-40	-08
CAT-SEAM-50-08-RA	-50	-08
CAT-SEAM-20-10-RA	-20	-10
CAT-SEAM-30-10-RA	-30	-10
CAT-SEAM-40-10-RA	-40	-10
CAT-SEAM-50-10-RA	-50	-10

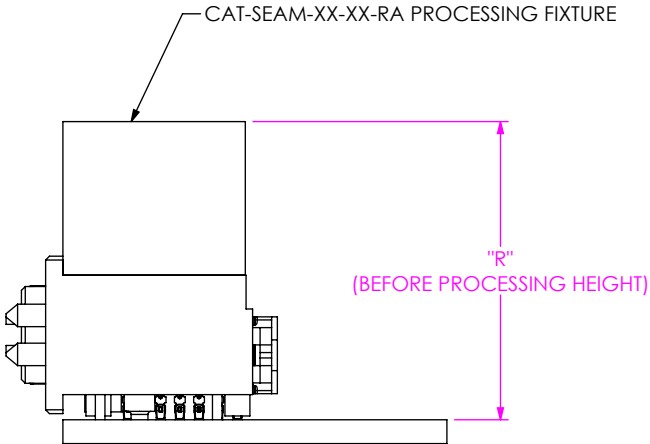


TABLE 6	
ROW	"R"
-08	.877 [22.28]
-10	.977 [24.82]

FIG 8
SEAM-RA PROCESSING FIXTURE
(USE CAT-SEAM-XX-XX-RA FIXTURE)

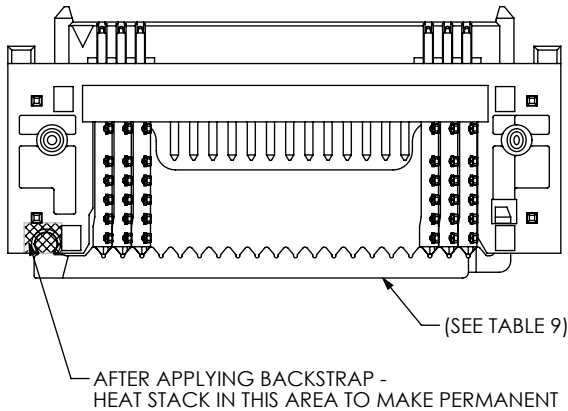


TABLE 9	
No. OF POSITIONS	"BACKSTRAP"
-20	SEAX-RA-BS-20-01
-30	SEAX-RA-BS-30-01
-40	SEAX-RA-BS-40-01
-50	SEAX-RA-BS-50-01

FIG 9
HEAT STAKING BACKSTRAP

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.

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

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

DESCRIPTION:
SEAM-RA ASSEMBLY

DWG. NO.
SEAM-XX-XX-X-XX-X-RA-XX-TR

BY: R MUSSER 06/27/2008 SHEET 5 OF 5

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[SEAM-20-01-L-08-1-RA-K-TR](#) [SEAM-50-01-S-10-1-RA-K-TR](#) [SEAM-40-01-L-04-1-RA-K-TR](#) [SEAM-50-01-S-04-1-RA-GP-K-TR](#) [SEAM-20-01-S-10-1-RA-K-TR](#) [SEAM-50-01-S-04-1-RA-GP-TR](#) [SEAM-20-01-S-08-2-RA-GP-K-TR](#) [SEAM-40-01-L-08-1-RA-GP-TR](#) [SEAM-20-01-L-10-2-RA-GP-K-TR](#) [SEAM-20-01-S-08-2-RA-TR](#) [SEAM-40-01-S-08-1-RA-GP-TR](#) [SEAM-30-01-S-10-2-RA-GP-TR](#) [SEAM-40-01-L-08-1-RA-GP-K-TR](#)