

NOTES:

- NOTES:
1.  REPRESENTS A CRITICAL DIMENSION.
 2. MINIMUM PUSHOUT FORCE: 0.75 LBS.
 3. PARTS TO BE PACKAGED IN TRAYS (UNLESS -TR OPTION IS SELECTED).
 4. 5 ROW SOLDER TAILS ARE NOT SYMMETRICAL WITH BODY WIDTH (378[9.60]); SEE FIG. 7, SHEET 4.
 5. C18 TO BE INSPECTED OPTICALLY WHILE FOCUSED ON THIS SURFACE.
 6. DIMENSION TO BE MEASURED IN ALL FOUR CORNERS.

DO NOT
SCALE FROM
THIS PRINT

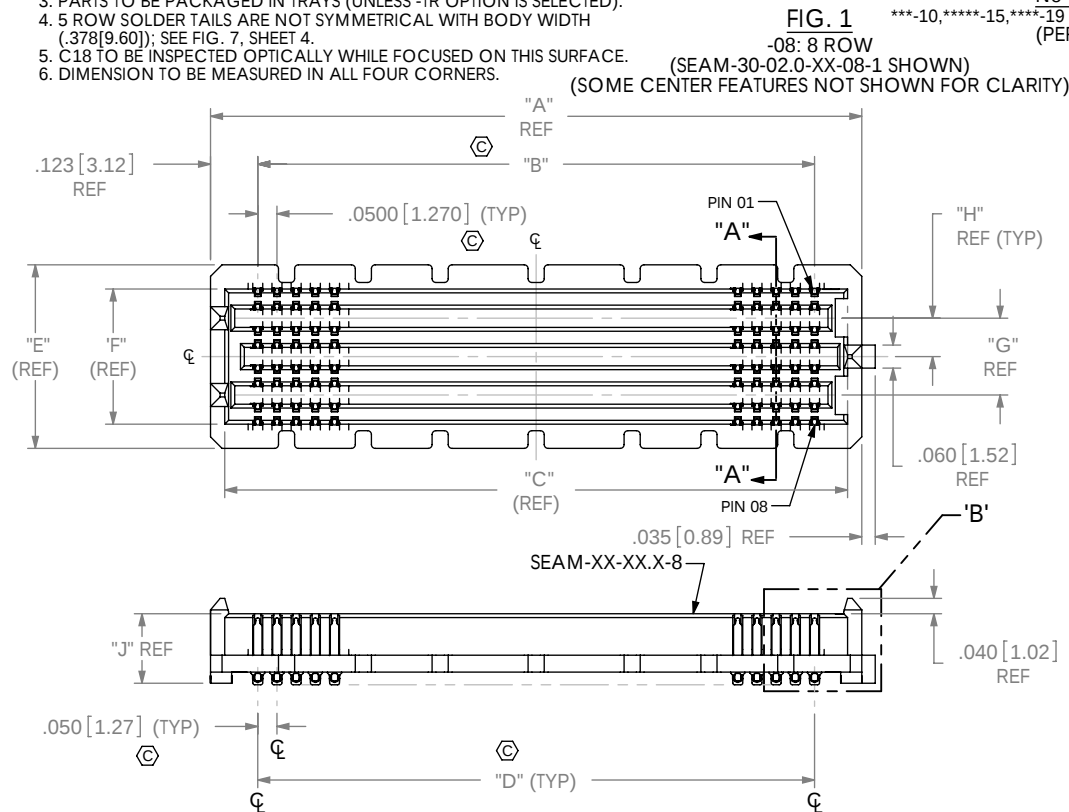


TABLE 2			
STACK HEIGHT			
SEAM LEAD STYLE	SEAF LEAD STYLE		
	-05.0	-06.0	-06.5
-02.0	7mm	8mm	8.5mm
-03.0	8mm	9mm	9.5mm
-03.5	8.5mm	9.5mm	10mm

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION
(SEE SHEET 3 FOR LEAD STYLES -06.5 THRU -13.0)

LEAD STYLE	"T"
-02.0	.1790 [4.547]
-03.0	.2180 [5.537]
-03.5	.2380 [6.045]
** -06.5	.3575 [9.081]
-07.0	.3750 [9.525]
-09.0	.4540 [11.532]
-11.0	.5330 [13.538]
* -13.0	.6120 [15.545]

STYLE	"J"	BODY CALLOUT	TERMINAL
-02.0	0.181 [4.60]	SEAM-XX-02.0-XX-X	SUB-T-1M36-02.0-X-X
-03.0	0.220 [5.59]	SEAM-XX-03.0-XX-X	SUB-T-1M36-03.0-X-X
-03.5	0.240 [6.10]	SEAM-XX-03.5-XX-X	SUB-T-1M36-03.5-X-X

(SEE SHEET 3 FOR LEAD STYLES -07.0 THRU -13.0)

LEAD STYLE	"U"			
	10-30 POS.		40 POS.	50 POS.
-02.0, -03.0				
-03.5, "-06.5, -07.0	.006	[0.152]	.009 [0.229]	.009 [0.229]
-09.0, "-13.0				
-11.0	.0085	[0.216]	.009 [0.229]	.009 [0.229]

No. OF POS	"A"	"B"	"C"	"D"
***-10	.696[17.68]	.450[11.43]	.622[15.80]	.450[11.43]
****-15	.946[24.03]	.700[17.78]	.872[22.15]	.700[17.78]
****-19	1.146[29.11]	.900[22.86]	1.072[27.23]	.900[22.86]
-20	1.196 [30.38]	.950 [24.13]	1.122 [28.50]	.950 [24.13]
*****-25	1.446[36.73]	1.200[30.48]	1.372[34.85]	1.200[30.48]
-30	1.696 [43.08]	1.450 [36.83]	1.622 [41.20]	1.450 [36.83]
-40	2.196 [55.78]	1.950 [49.53]	2.122 [53.90]	1.950 [49.53]
-50	2.696 [68.48]	2.450 [62.23]	2.622 [66.60]	2.450 [62.23]

TABLE 4				
No. OF ROWS	"E"	"F"	"G"	"H"
-04	.278[7.06]	.152[3.86]	.100[2.54]	.050[1.27]
-05, -06	.378 [9.60]	.252 [6.40]	.100 [2.54]	.050 [1.27]
-08	.478 [12.14]	.352 [8.94]	.200 [5.08]	.100 [2.54]
-10	.578 [14.68]	.452 [11.48]	.300 [7.62]	.150 [3.81]

☒ = NOT TOOLED FOR -05 & -06 ROWS
 * = NOT TOOLED
 ** = NOT RELEASED FOR PRODUCTION
 *** = 10 POSITION ONLY AVAILABLE
 IN 4 ROW
 **** = ONLY AVAILABLE WITH -03.5 LEAD
 STYLE & 6 ROW
 ***** = ONLY AVAILABLE IN A 10 ROW
 ☒ = ONLY AVAILABLE IN 8 & 10 ROW
 ***** = ONLY AVAILABLE WITH -03.5 LEAD
 STYLE & 4 ROW

PATENT NUMBER
7172438

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS	ANGLES
.XX: $\pm .01$ [.3]	2°
.XXX: $\pm .005$ [.13]	
.XXXX: $\pm .0020$ [.051]	

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING
INSULATOR: L.C.P., COLOR: BLACK
TERMINAL: COPPER ALLOY

SHEET SCALE: 2:1

DESCRIPTION:	050 PITCH TERMINAL ARRAY ASSEMBLY
--------------	-----------------------------------

SEAM-XX-XX.X-XX-XX-X-XX

BY: BRATCHER 06/02/2004	SHEET 1 OF 7
-------------------------	--------------



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

FIG. 2
-10: 10 ROW
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-30-02.0-XX-10-1 SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)

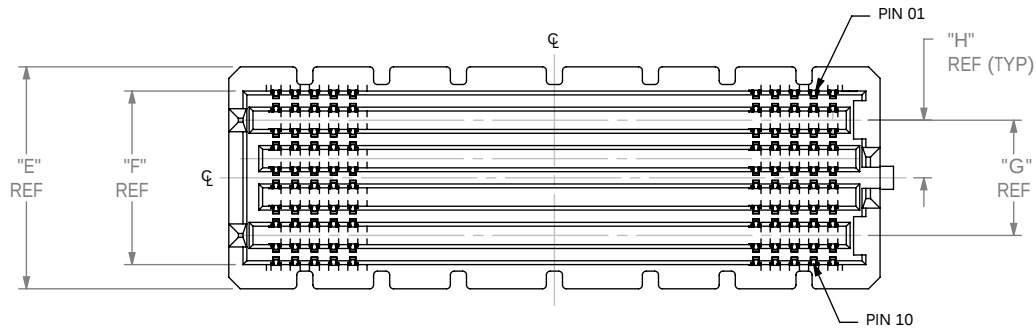


FIG. 3
-A: ALIGNMENT PINS OPTION
APPLIES TO ALL -A OPTION PART NUMBERS
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-30-02.0-XX-08-1-A SHOWN)
(SOME CONTACTS NOT SHOWN FOR CLARITY)

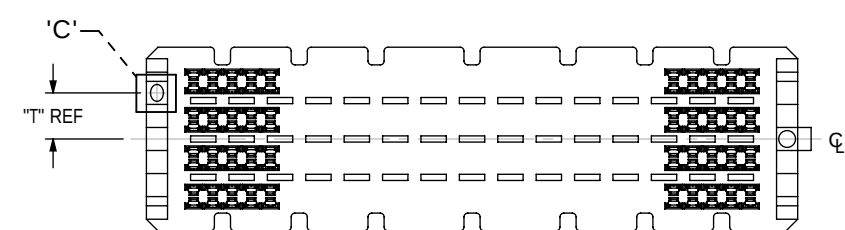
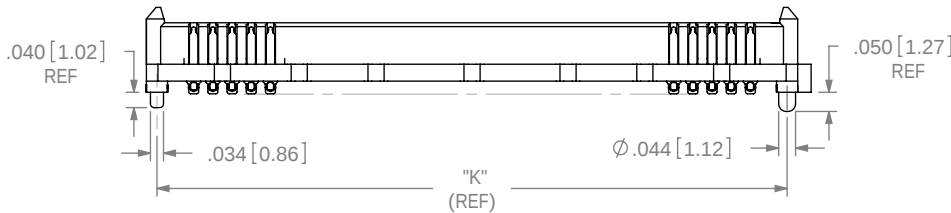


TABLE 11	
No. OF ROWS	"T"
-04	.079[2.01]
-05	.120[3.05]
-06	.120[3.05]
-08	.120[3.05]
-10	.120[3.05]

TABLE 5	
No. OF POS	"K"
***-10	.641[16.28]
****-15	.891[22.63]
-20	1.141 [29.98]
*****-25	1.391[35.33]
-30	1.641 [41.68]
-40	2.141 [54.38]
-50	2.641 [67.08]

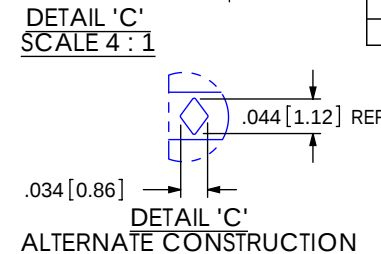
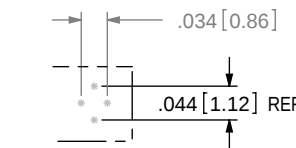
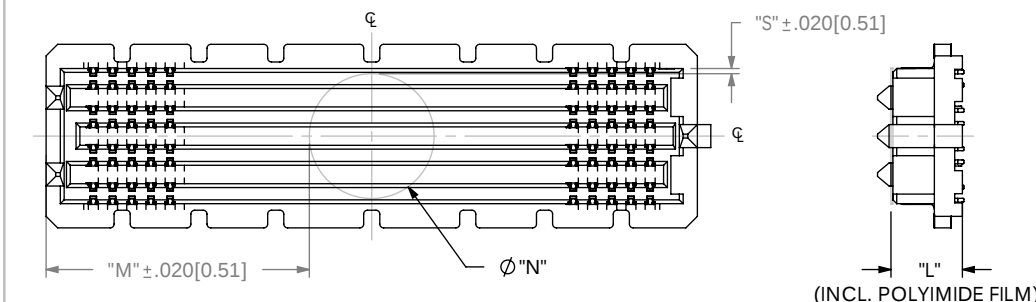


FIG. 4
-K: KAPTON PAD OPTION
(SEAM-30-02.0-XX-08-1-K SHOWN)
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(ALL CONTACTS NOT SHOWN FOR CLARITY)



"M"=(("A"/(SEE TABLE 3)-"N")/2)±.020

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION

TABLE 6	
LEAD STYLE	"L"
-02.0	.186 [4.72]
-03.0	.225 [5.72]
-03.5	.245 [6.72]
** -06.5	.365 [9.27]
-07.0	.382 [9.70]
-09.0	.461 [11.71]
-11.0	.540 [13.72]
* -13.0	.619 [15.72]

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING
SHEET SCALE: 2:1

SECTION "A"- "A"
SCALE 4 : 1

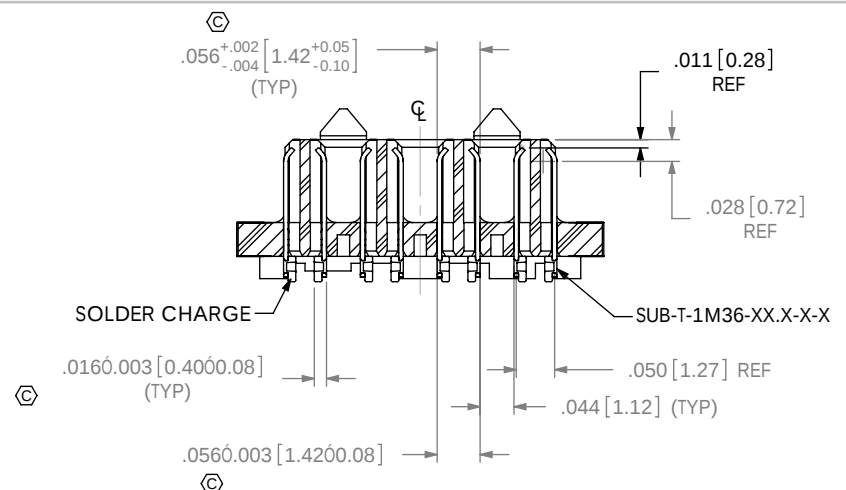


TABLE 8		
No. OF ROWS	Ø "N"	"S"
-04	.138[3.50]	.007[.18]
-05, -06	.236 [6.00]	.008 [0.20]
-08	.325 [8.25]	.014 [0.34]
-10	.404 [10.25]	.024 [0.61]



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

DESCRIPTION:
.050 PITCH TERMINAL ARRAY ASSEMBLY
DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX
BY: BRATCHER 06/02/2004 SHEET 2 OF 7

FIG. 5
-06.5 THRU -13.0 LEAD STYLES
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-30-09.0-XX-08-X-X SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)

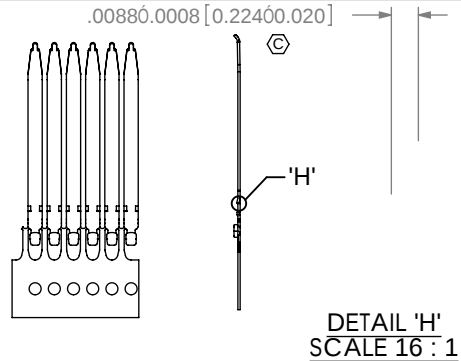
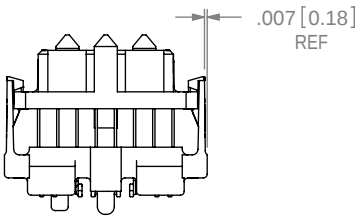
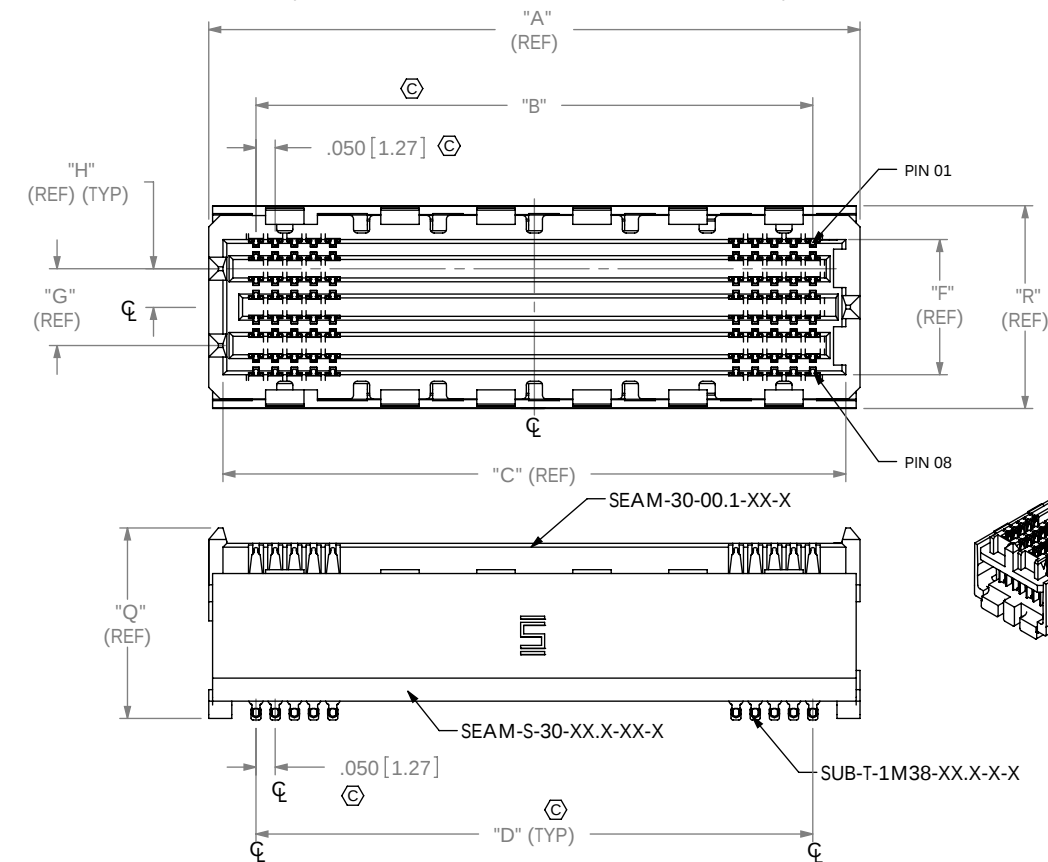
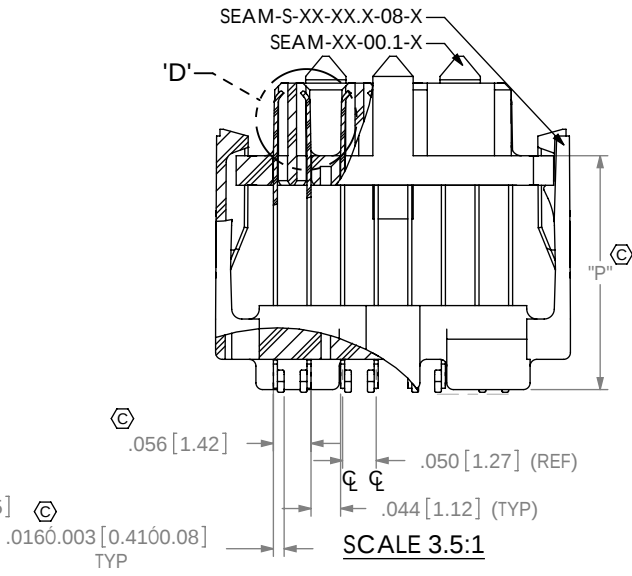
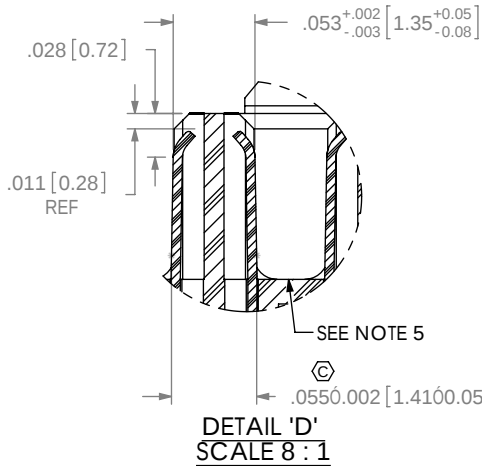


TABLE 9			
STACK HEIGHT			
SEAM-S LEAD STYLE	SEAF LEAD STYLE		
	-05.0	** -06.0	-06.5
** -06.5	11.5mm	12.5mm	13mm
-07.0	12mm	13mm	13.5mm
-09.0	14mm	15mm	15.5mm
-11.0	16mm	17mm	17.5mm
* -13.0	18mm	19mm	19.5mm

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION

TABLE 10							
ROW	STYLE	"P"	"Q"	"R"	SPACER BODY	TOP BODY	TERMINAL
-04	-07.0	.271 [6.88]	.417 [10.60]	.328 [8.33]	SEAM-S-XX-07.0-04-X	SEAM-XX-00.1-04	SUB-T-1M38-07.0-X-X
	-09.0	.350 [8.89]	.496 [12.60]	.328 [8.33]	SEAM-S-XX-09.0-04-X	SEAM-XX-00.1-04	SUB-T-1M38-09.0-X-X
	-11.0	.429 [10.90]	.575 [14.60]	.328 [8.33]	SEAM-S-XX-11.0-04-X	SEAM-XX-00.1-04	SUB-T-1M38-11.0-X-X
-05	-07.0	.271 [6.88]	.417 [10.60]	.428 [10.87]	SEAM-S-XX-07.0-06-X	SEAM-XX-00.1-05	SUB-T-1M38-07.0-X-X
	-09.0	.350 [8.89]	.496 [12.60]	.428 [10.87]	SEAM-S-XX-09.0-06-X	SEAM-XX-00.1-05	SUB-T-1M38-09.0-X-X
	-11.0	.429 [10.90]	.575 [14.60]	.428 [10.87]	SEAM-S-XX-11.0-06-X	SEAM-XX-00.1-05	SUB-T-1M38-11.0-X-X
-06	* -13.0	.508 [12.90]	.654 [16.60]	.428 [10.87]	SEAM-S-XX-13.0-06-X	SEAM-XX-00.1-05	SUB-T-1M38-13.0-X-X
	-07.0	.271 [6.88]	.417 [10.60]	.428 [10.87]	SEAM-S-XX-07.0-06-X	SEAM-XX-00.1-06	SUB-T-1M38-07.0-X-X
	-09.0	.350 [8.89]	.496 [12.60]	.428 [10.87]	SEAM-S-XX-09.0-06-X	SEAM-XX-00.1-06	SUB-T-1M38-09.0-X-X
-08	-11.0	.429 [10.90]	.575 [14.60]	.428 [10.87]	SEAM-S-XX-11.0-06-X	SEAM-XX-00.1-06	SUB-T-1M38-11.0-X-X
	* -13.0	.508 [12.90]	.654 [16.60]	.428 [10.87]	SEAM-S-XX-13.0-06-X	SEAM-XX-00.1-06	SUB-T-1M38-13.0-X-X
	** -06.5	.252 [6.40]	.400 [10.16]	.528 [13.41]	SEAM-S-XX-06.5-08-X	SEAM-XX-00.1-08	SUB-T-1M38-06.5-X-X
-10	-07.0	.271 [6.88]	.417 [10.60]	.528 [13.41]	SEAM-S-XX-07.0-08-X	SEAM-XX-00.1-08	SUB-T-1M38-07.0-X-X
	-09.0	.350 [8.89]	.496 [12.60]	.528 [13.41]	SEAM-S-XX-09.0-08-X	SEAM-XX-00.1-08	SUB-T-1M38-09.0-X-X
	-11.0	.429 [10.90]	.575 [14.60]	.528 [13.41]	SEAM-S-XX-11.0-08-X	SEAM-XX-00.1-08	SUB-T-1M38-11.0-X-X
-10	* -13.0	.508 [12.90]	.654 [16.60]	.528 [13.41]	SEAM-S-XX-13.0-08-X	SEAM-XX-00.1-08	SUB-T-1M38-13.0-X-X
	** -06.5	.252 [6.40]	.400 [10.16]	.628 [15.95]	SEAM-S-XX-06.5-10-X	SEAM-XX-00.1-10	SUB-T-1M38-06.5-X-X
	-07.0	.271 [6.88]	.417 [10.60]	.628 [15.95]	SEAM-S-XX-07.0-10-X	SEAM-XX-00.1-10	SUB-T-1M38-07.0-X-X
-10	-09.0	.350 [8.89]	.496 [12.60]	.628 [15.95]	SEAM-S-XX-09.0-10-X	SEAM-XX-00.1-10	SUB-T-1M38-09.0-X-X
	-11.0	.429 [10.90]	.575 [14.60]	.628 [15.95]	SEAM-S-XX-11.0-10-X	SEAM-XX-00.1-10	SUB-T-1M38-11.0-X-X
	* -13.0	.508 [12.90]	.654 [16.60]	.628 [15.95]	SEAM-S-XX-13.0-10-X	SEAM-XX-00.1-10	SUB-T-1M38-13.0-X-X

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION



PROPRIETARY NOTE

THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED 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:
.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX

BY: BRATCHER 06/02/2004 SHEET 3 OF 7

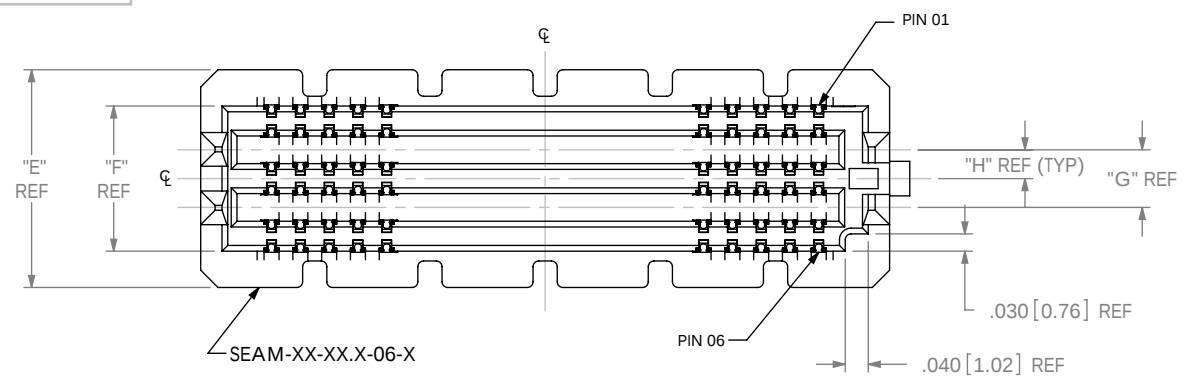


FIG. 6
-06: 6 ROWS
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-06-X-A SHOWN)
(**-07.0, **-09.0, **-11.0, & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)

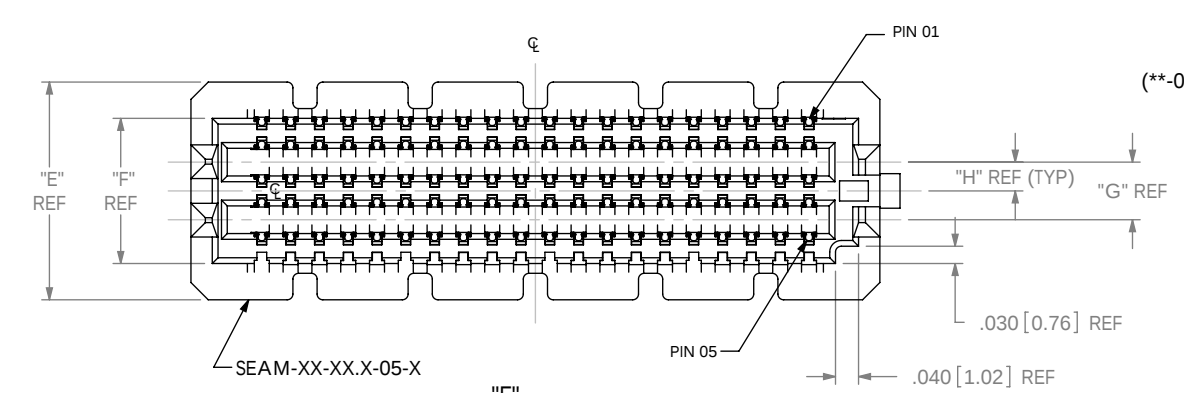
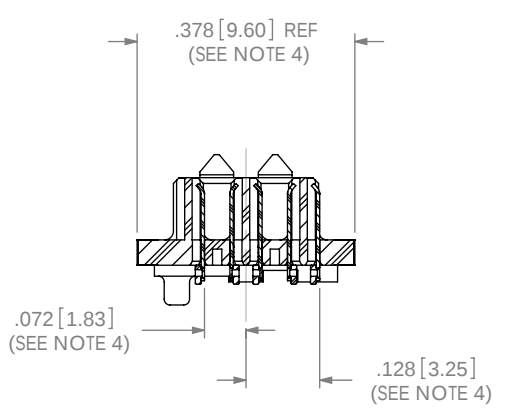
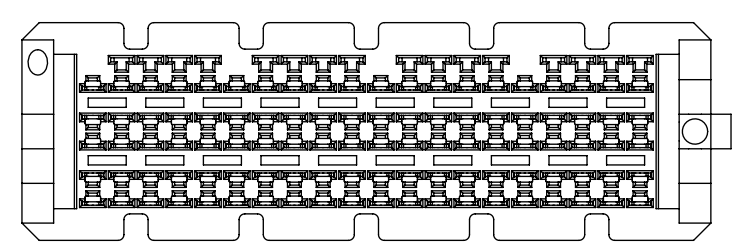
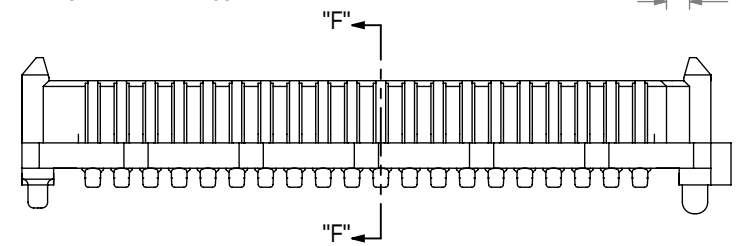


FIG. 7
-05: 5 ROWS
(SAME AS FIG. 6, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-05-X-A SHOWN)
(**-07.0, **-09.0, **-11.0 & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
(SEE NOTE 4)



SECTION "F"-"F"

PROPRIETARY NOTE THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC. DO NOT SCALE DRAWING SHEET SCALE: 3:1		
	520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code: 55322	
	DESCRIPTION: .050 PITCH TERMINAL ARRAY ASSEMBLY	
	DWG. NO. SEAM-XX-XX.X-XX-XX-X-XX	
BY: BRATCHER 06/02/2004		SHEET 4 OF 7

FIG. 8

**GP: GUIDE POST OPTION
(ONLY AVAILABLE WITH -.02.0 LEAD STYLE, 4 & 6 ROW, 20, 30, 40, & 50 POSITIONS)
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-06-2-A-GP SHOWN)
(SOME CONTACTS NOT SHOWN FOR CLARITY)
** = NOT RELEASED FOR PRODUCTION

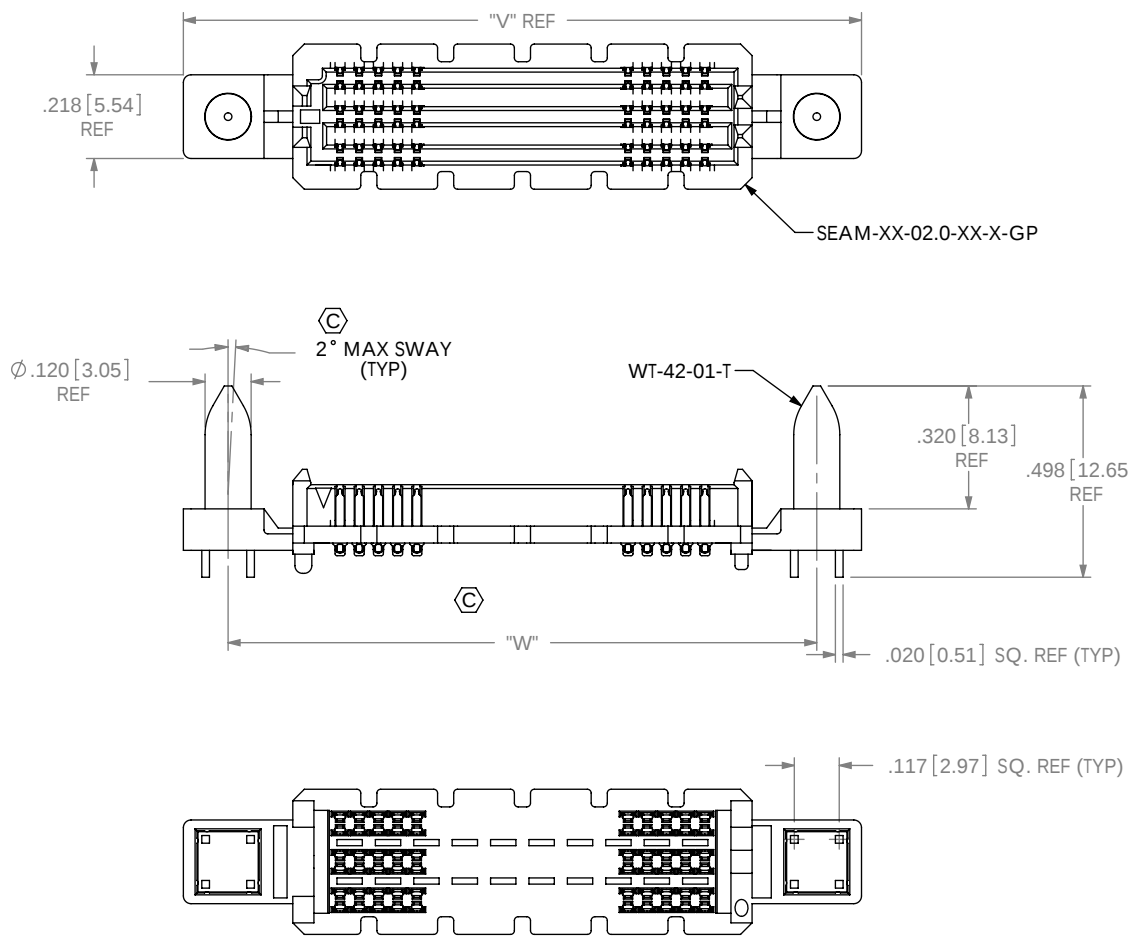


TABLE 14		
POSITIONS	"V"	"W"
-20	1.766[44.86]	1.533[38.94]
-30	2.266[57.56]	2.033[51.64]
-40	2.766[70.26]	2.533[64.34]
-50	3.266[82.96]	3.033[77.04]

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR
TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED 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:
.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX

BY: BRATCHER 06/02/2004 SHEET 5 OF 7

FIG. 9
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-04 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28 & 29

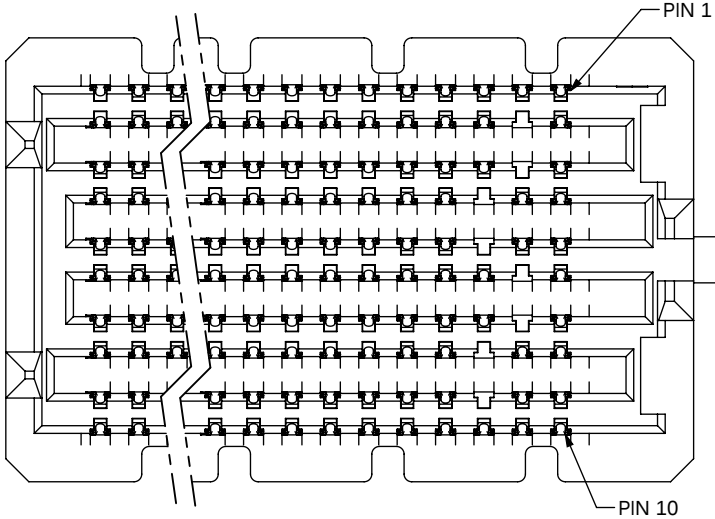


FIG. 10
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-08 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48 & 49

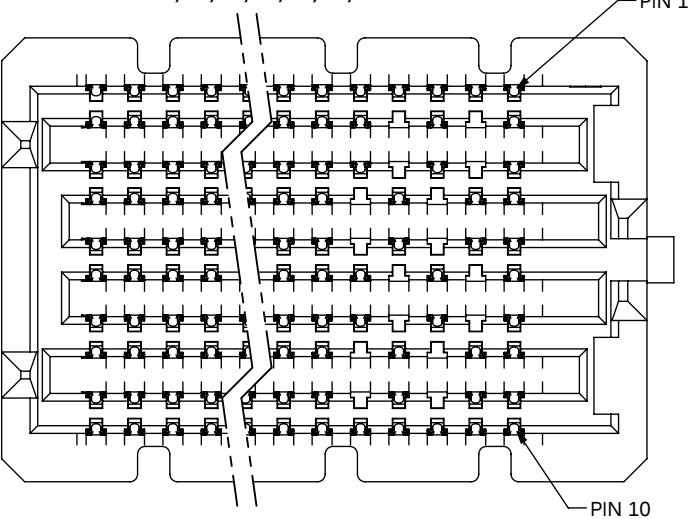


FIG. 11
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-12 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48, 49
52, 53, 56, 57, 64, 65, 68 & 69

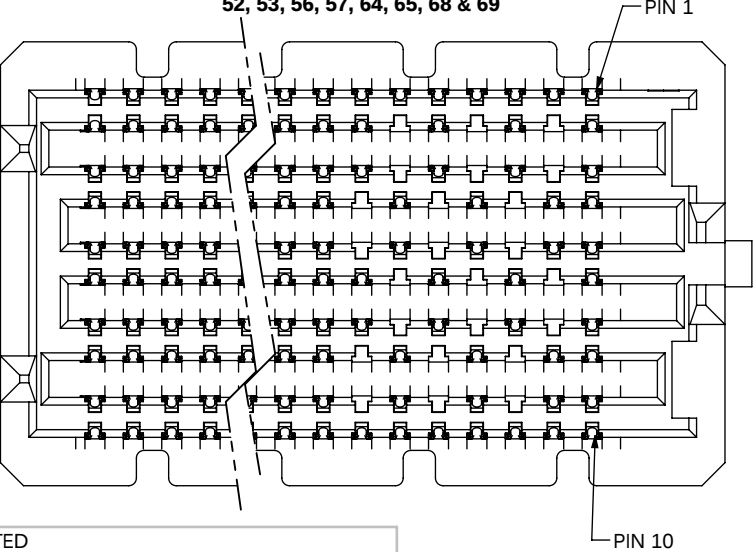
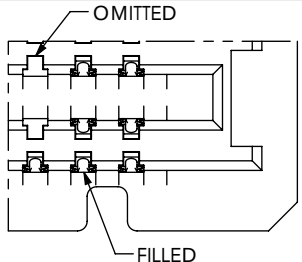
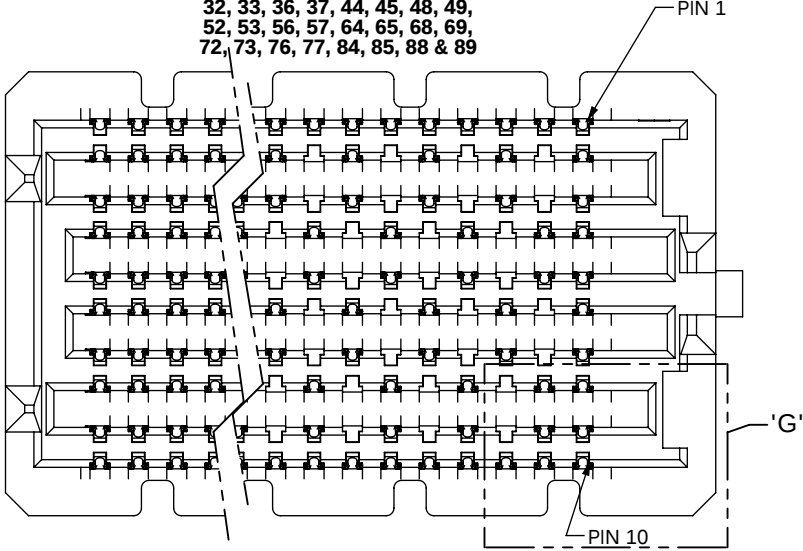


FIG. 12
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-16 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48, 49,
52, 53, 56, 57, 64, 65, 68, 69,
72, 73, 76, 77, 84, 85, 88 & 89



DETAIL 'G'
SCALE 5:1

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

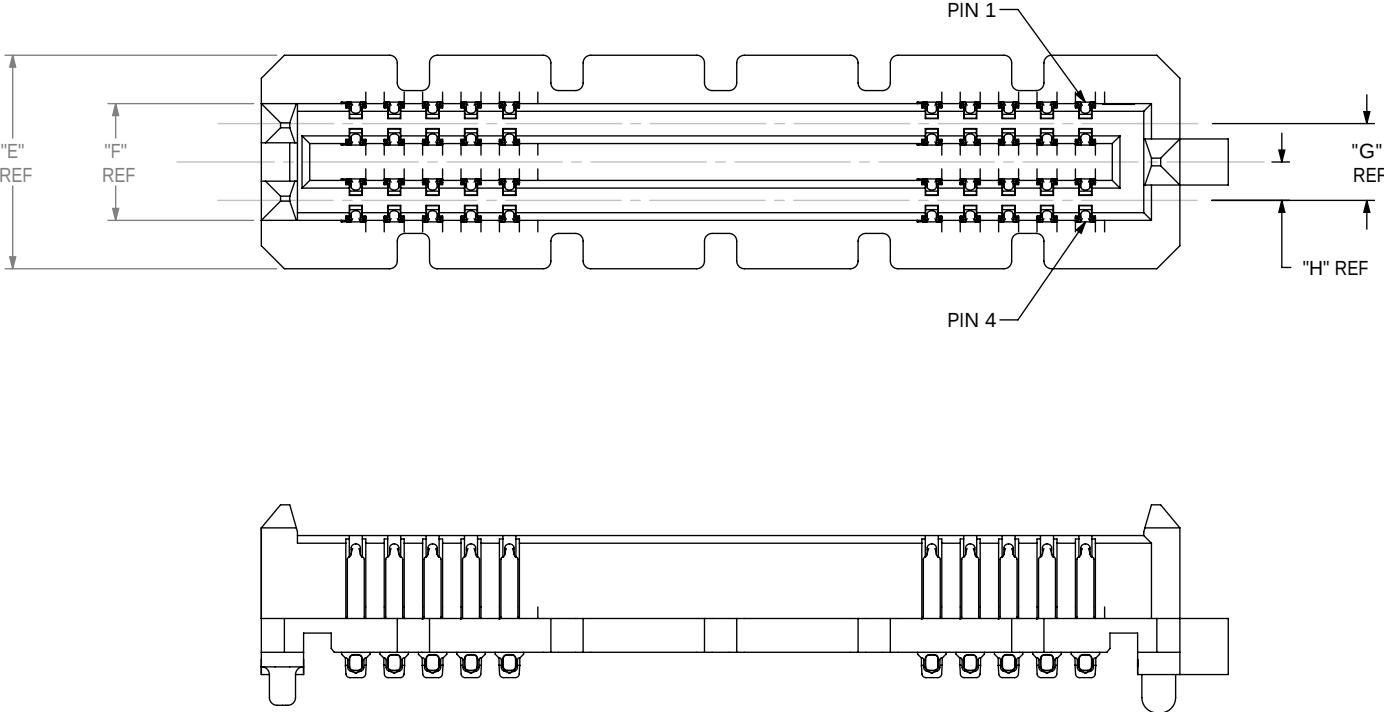
SHEET SCALE: 4:1



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

DESCRIPTION:
.050 PITCH TERMINAL ARRAY ASSEMBLY
DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX
BY: BRATCHER 06/02/2004 SHEET 6 OF 7

FIG. 13
-04: 4 ROW
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-04-1-A SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)



PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC, INC. AND SHALL NOT BE REPRODUCED
OR TRANSFERRED TO OTHER DOCUMENTS OR
DISCLOSED TO OTHERS OR USED FOR ANY
PURPOSE OTHER THAN THAT WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED WRITTEN
CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE:4:1

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:
.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX

BY: BRATCHER 06/02/2004 SHEET 7 OF 7