REVISION AC

DO NOT SCALE FROM THIS PRINT

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.

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

No OF POSITIONS
-10,**-15,****-19 -20, ******-25, -30, -40, -50
(PER ROW)

LEAD STYLE
-02.0 (SEE TABLE 1&2)
AC ☒ -03.0(SEE TABLE 1&2)
-03.5(SEE TABLE 1&2)
** ☒ -06.5 (SEE TABLE 9 &10)
-07.0 (SEE TABLE 9 &10)
-09.0 (SEE TABLE 9 &10)
-11.0 (SEE TABLE 9 &10)
* -13.0 (SEE TABLE 9 &10)

PLATING SPECIFICATION
-L: LIGHT GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-(LEAD STYLE -02.0 THRU-03.5: USE SUB-T-1M36-XX.X-L-X)
-(LEAD STYLE -06.5 THRU-13.0: USE SUB-T-1M38-XX.X-L-X)
-SM: SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-(LEAD STYLE -02.0 THRU-03.5: USE SUB-T-1M36-XX.X-S-X)
-(LEAD STYLE -06.5 THRU-13.0: USE SUB-T-1M38-XX.X-S-X)
-S: SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-(LEAD STYLE -02.0 THRU-03.5: USE SUB-T-1M36-XX.X-S-X)
-(LEAD STYLE -06.5 THRU-13.0: USE SUB-T-1M38-XX.X-S-X)

ROW
-04: 4 ROWS (SEE FIG 13, SHT 7) (NOT AVAILABLE IN -13.0 LEAD STYLE)
-05: 5 ROWS (SEE FIG. 7, SHT 4) (**-07.0, **-09.0, **-11.0 & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
-06: 6 ROWS (SEE FIG. 6, SHT 4) (**-07.0, **-09.0, **-11.0, & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
-08: 8 ROWS (SEE FIG. 1)
-10: 10 ROWS (SEE FIG. 2, SHT 2)

OPTION
-A: ALIGNMENT PIN (SEE FIG. 3, SHT 2) (NOT AVAILABLE WITH -19 POSITION)
-K: KAPTON PAD (SEE FIG. 4, SHT 2) DOT APPLICATOR-KAPTON TAPE.
-04 ROW: USE K-DOT-.138-.250-.005
-05/-06 ROW: USE K-DOT-.236-.343-.005
-08 ROW: USE K-DOT-.325-.450-.005
-10 ROW: USE K-DOT-.404-.500-.005
-TR: TAPE & REEL
**-GP: GUIDE POST (SEE FIG. 8, SHT 5) (ONLY AVAILABLE WITH -02.0 LEAD STYLE, 4 & 6 ROW, 20, 30, 40, & 50 POSITION)
**-04: DIFF PAIR, (SEE FIG. 9, SHT 6) (ONLY AVAILABLE IN 10 ROW, 30 POSITION)
**-08: DIFF PAIR, (SEE FIG. 10, SHT 6) (ONLY AVAILABLE IN 10 ROW, 30 POSITION)
**-12: DIFF PAIR, (SEE FIG. 11, SHT 6) (ONLY AVAILABLE IN 10 ROW, 30 POSITION)
**-16: DIFF PAIR, (SEE FIG. 12, SHT 6) (ONLY AVAILABLE IN 10 ROW, 30 POSITION)

SOLDER COMPOSITION & STYLE
-1: 63% TIN / 37% LEAD CHARGE TAIL (USE SUB-T-1M3X-XX.X-X-1)
-2: 95.5% TIN / 3.8% SILVER / .7% COPPER CHARGE TAIL (USE SUB-T-1M3X-XX.X-X-2)

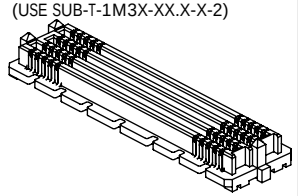
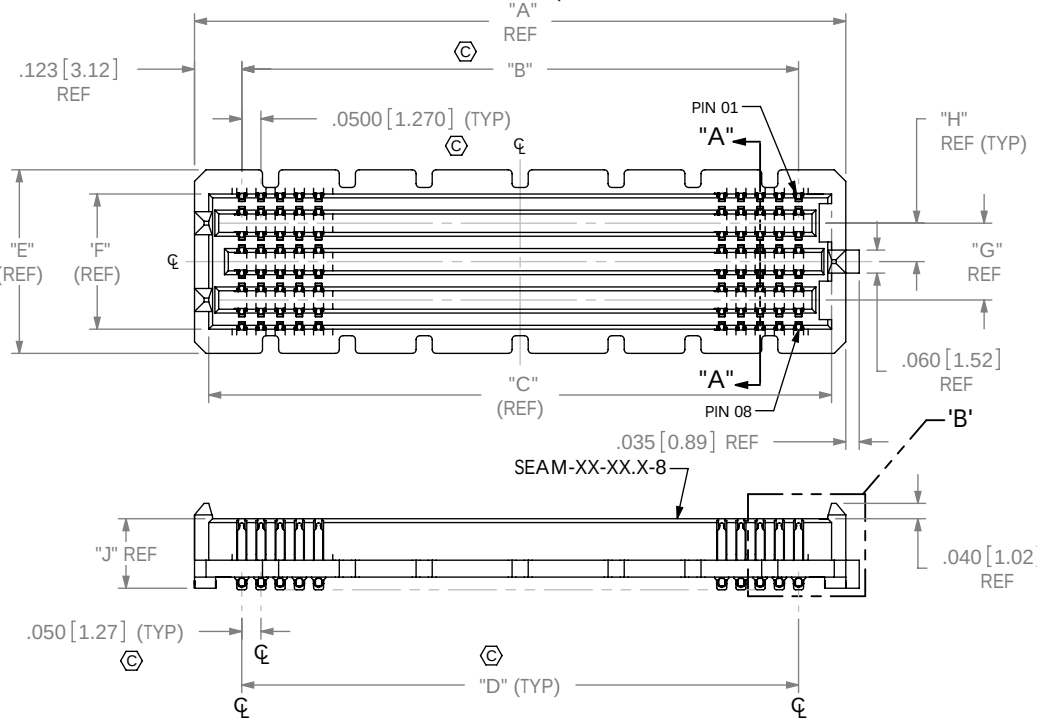
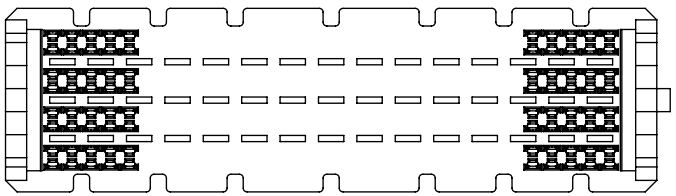


FIG. 1
-08: 8 ROW
(SEAM-30-02.0-XX-08-1 SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)





☒ = 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

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)

TABLE 3

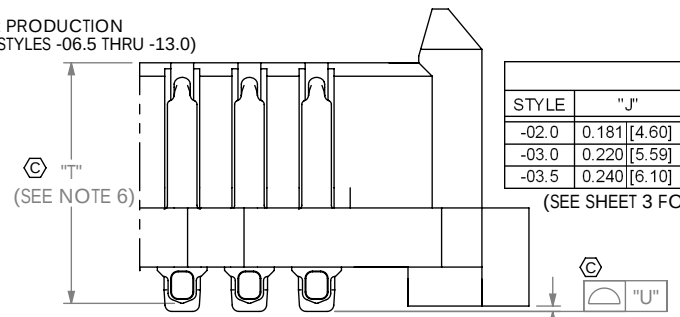
No. OF POS	"A"	"B"	"C"	"D"
***-10	.696[17.68]	.450[11.43]	.622[15.80]	.450[11.43]
*****-15	.946[24.03]	.700[17.78]	.872[22.15]	.700[17.78]
****-19	1.146[29.11]	.900[22.86]	1.072[27.23]	.900[22.86]
-20	1.196 [30.38]	.950 [24.13]	1.122 [28.50]	.950 [24.13]
******-25	1.446[36.73]	1.200[30.48]	1.372[34.85]	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]

TABLE 12

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]



DETAIL 'B'
SCALE 7 : 1

TABLE 1

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)

PATENT NUMBER
7172438

TABLE 13

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

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

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samtec
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: 2:1
INSULATOR: L.C.P., COLOR: BLACK
TERMINAL: COPPER ALLOY

DESCRIPTION:
.050 PITCH TERMINAL ARRAY ASSEMBLY

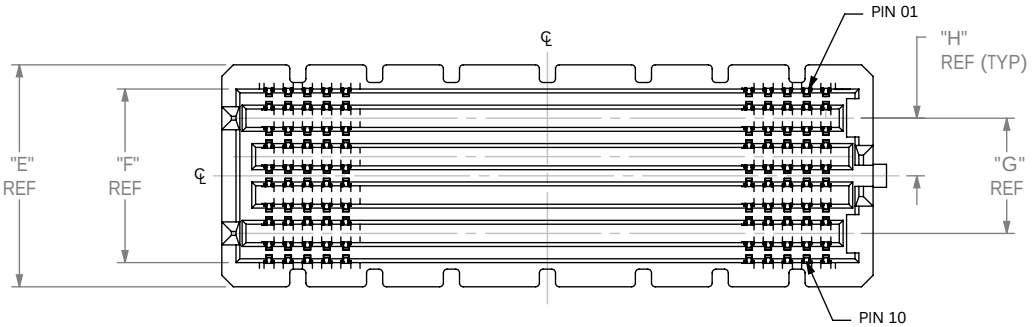
DWG. NO.
SEAM-XX-XX.X-XX-XX-X-XX

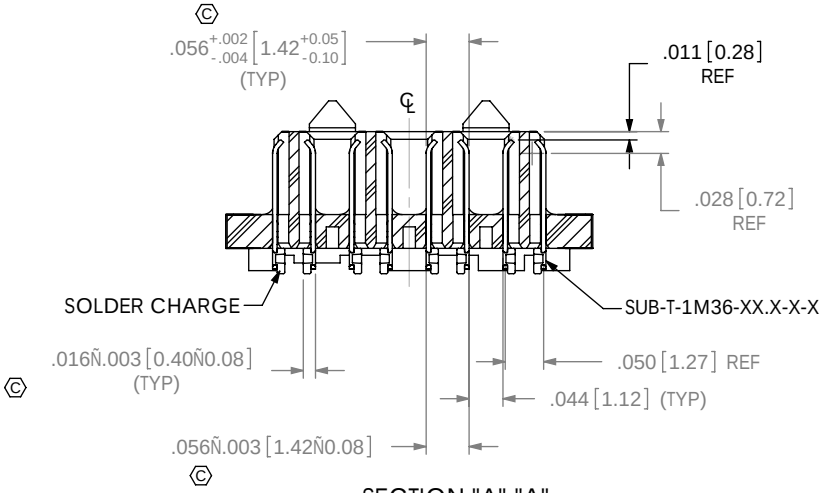
BY: BRATCHER 06/02/2004 SHEET 1 OF 7

c:\enterprisevault\DWG\MISC\MKTG\SEAM-XX-XX.X-XX-XX-X-XX-MKT.SLDDRW

REVISION AC

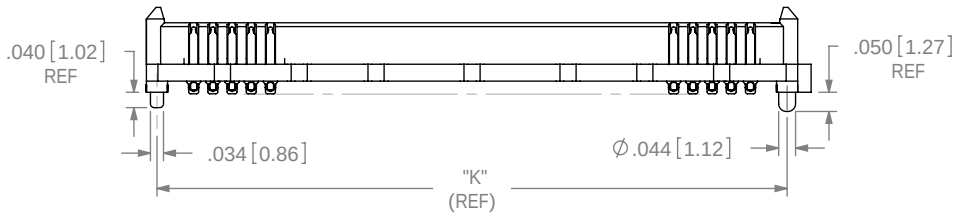
FIG. 2
-10: 10 ROW
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-30-02.0-XX-10-1 SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)

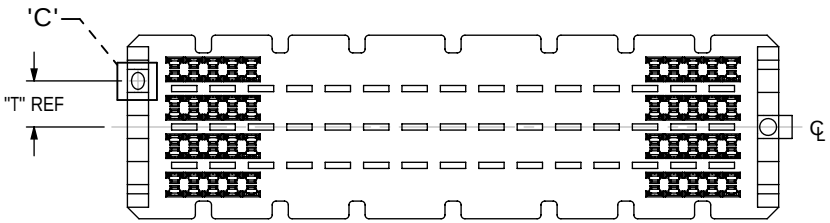


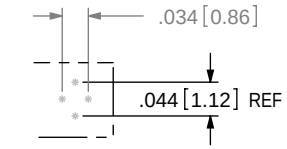


SECTION "A"-"A"
SCALE 4 : 1

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)



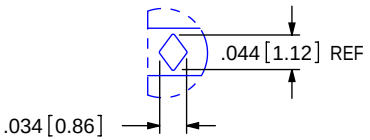




DETAIL 'C'
SCALE 4 : 1

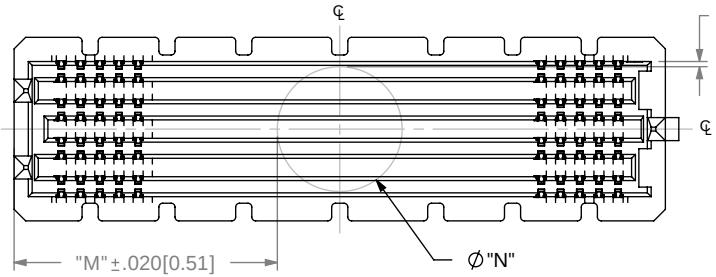
TABLE 11	
No. OF ROWS	"T"
-04	.079[2.01]
-05	.120[3.05]
-06	.120[3.05]
-08	.120[3.05]
-10	.120[3.05]

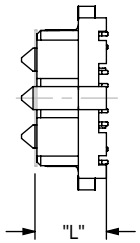
TABLE 5	
No. OF POS	"K"
***-10	.641[16.28]
*****-15	.891[22.63]
-20	1.141 [29.98]
******-25	1.391[35.33]
-30	1.641 [41.68]
-40	2.141 [54.38]
-50	2.641 [67.08]



DETAIL 'C'
ALTERNATE CONSTRUCTION

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)





(INCL. POLYIMIDE FILM)

"M"=(("A"(SEE TABLE 3)-"N")/2)±.020

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION

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]

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]

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DO NOT SCALE DRAWING

SHEET SCALE: 2:1

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

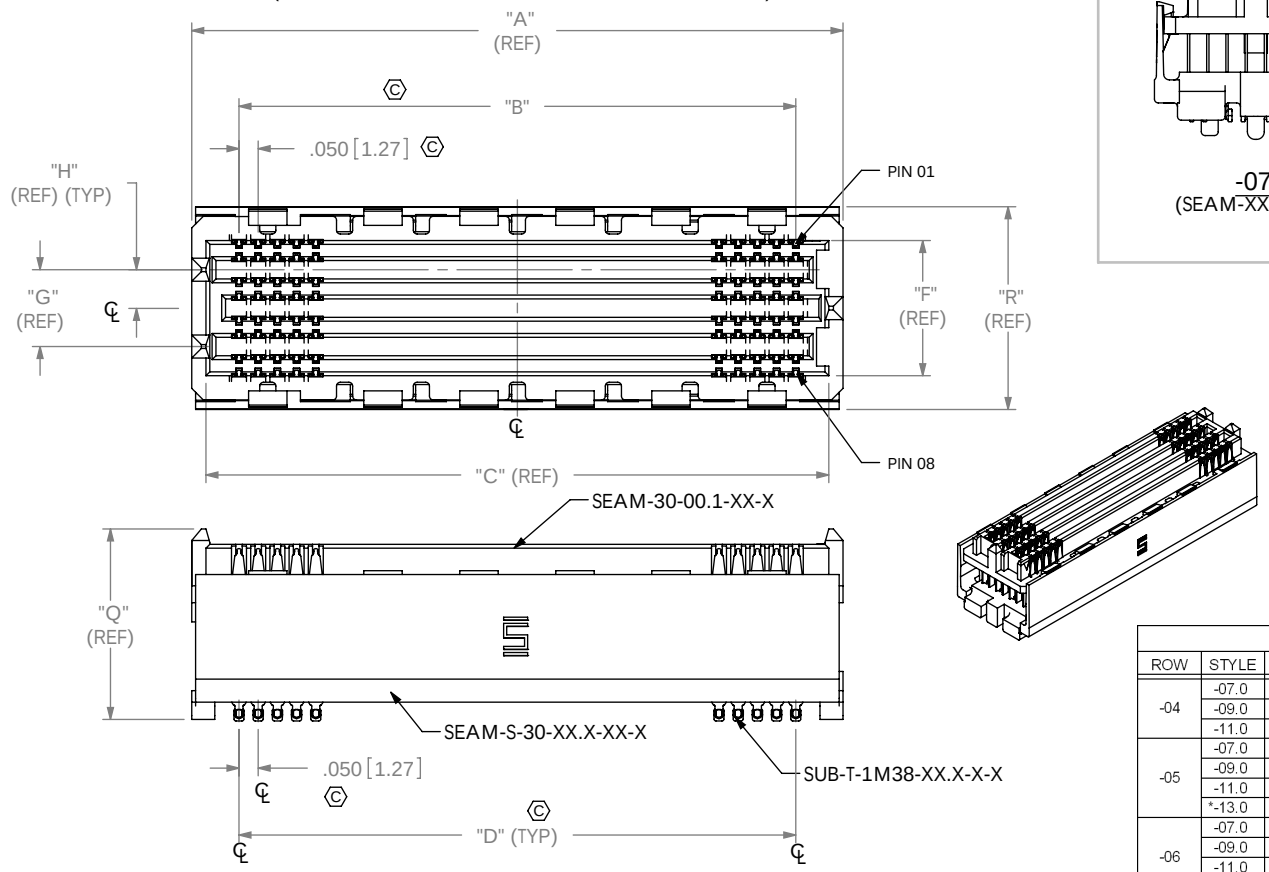
c:\enterprisevault\DWG\MISC\MKTG\SEAM-XX-XX.X-XX-XX-X-XX-MKT.SLDDRW

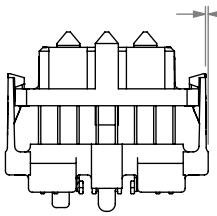
BY: BRATCHER 06/02/2004

REVISION AC

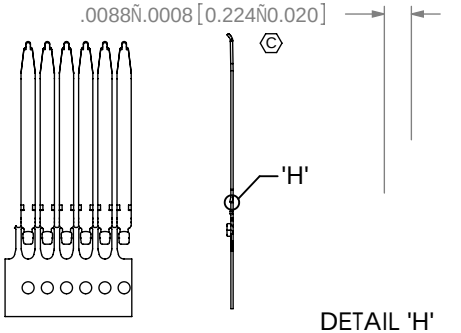
FIG. 5

-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)





-07.0 LEAD STYLE
(SEAM-XX-07.0-X-08-A-X SHOWN)



DETAIL 'H'
SCALE 16 : 1

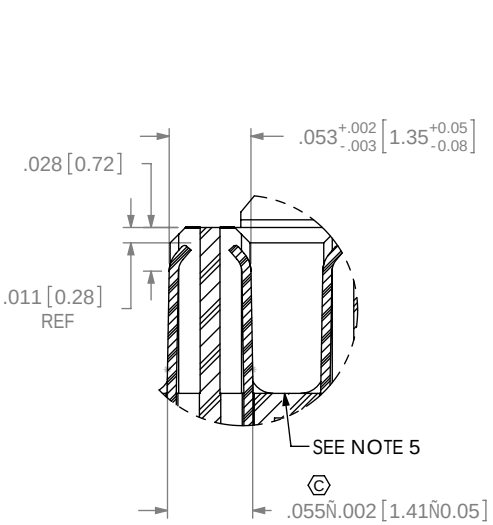
TABLE 9			
STACK HEIGHT			
SEAM-S LEAD STYLE	SEAF LEAD STYLE		
	-05.0	**-06.0	-06.5
**-06.5	11.5mm	12.5mm	13mm
-07.0	12mm	13mm	13.5mm
-09.0	14mm	15mm	15.5mm
-11.0	16mm	17mm	17.5mm
*-13.0	18mm	19mm	19.5mm

* = NOT TOOLED
** = NOT RELEASED FOR PRODUCTION

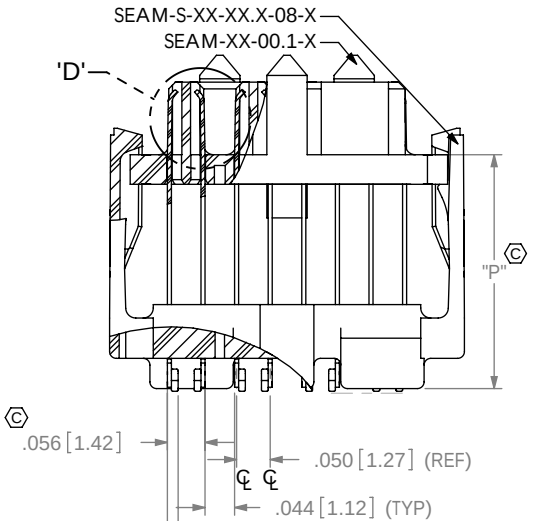
TABLE 10

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
	*-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
-06	-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
	-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
-08	**-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
	-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
	*-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
-10	**-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
	-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



DETAIL 'D'
SCALE 8 : 1



SCALE 3.5:1

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SHEET SCALE: 2:1

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 3 OF 7

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REVISION AC

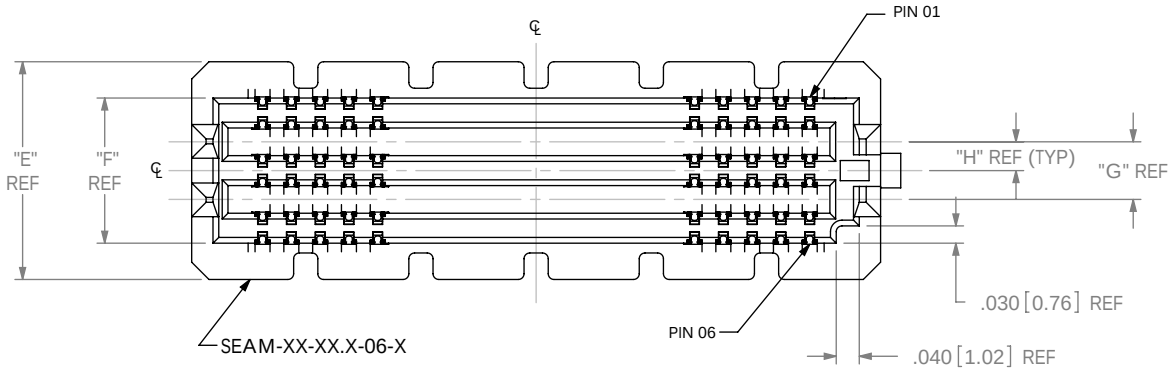


FIG. 6
-06: 6 ROWS
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-06-X-A SHOWN)
(**-07.0, **-09.0, **-11.0, & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)

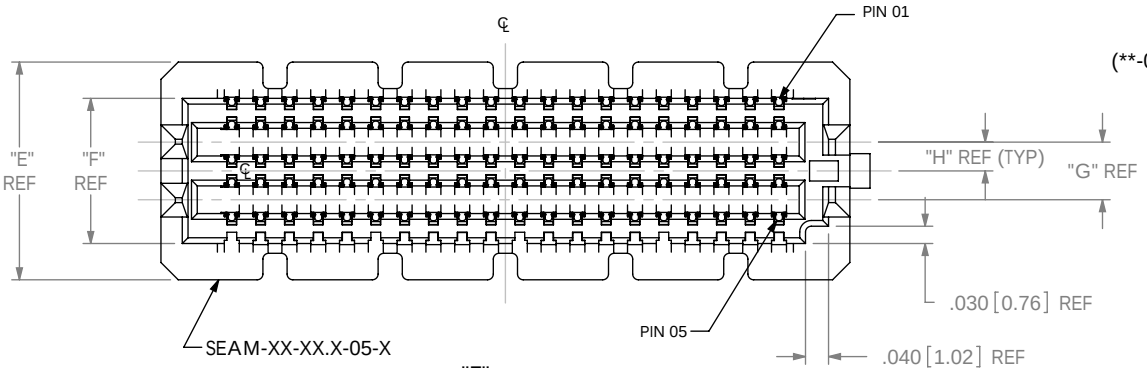
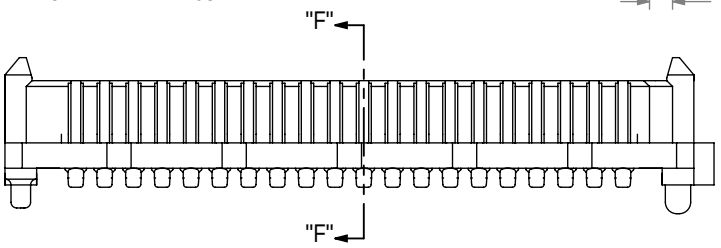
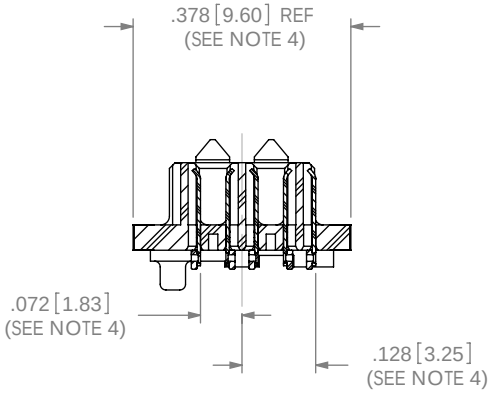
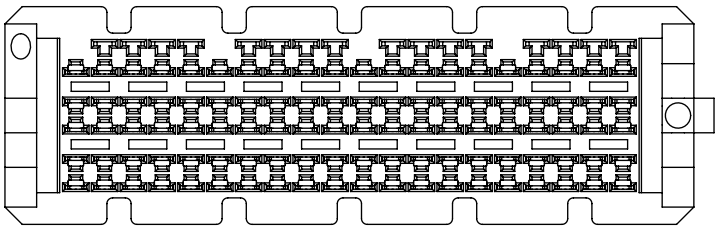


FIG. 7
-05: 5 ROWS
(SAME AS FIG. 6, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-05-X-A SHOWN)
(**-07.0, **-09.0, **-11.0 & *-13.0 LEAD STYLES: -20, -30, -40, & -50 POSITIONS)
(SEE NOTE 4)





SECTION "F"-"F"



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.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.
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REVISION AC

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

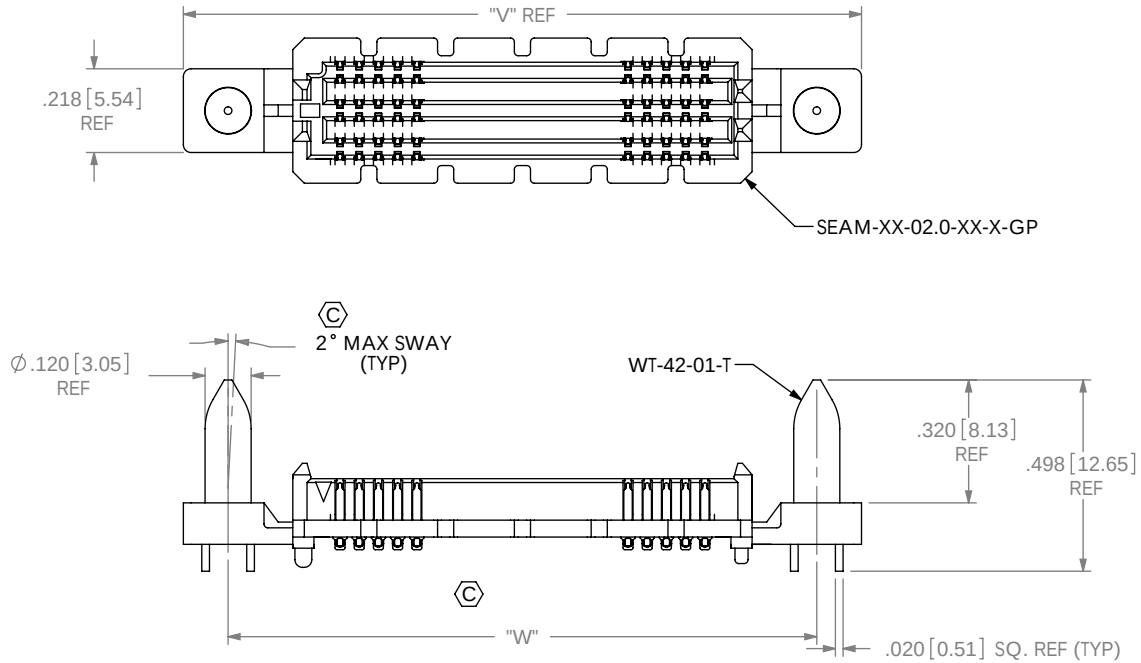

TABLE 14		
POSITIONS	"V"	"W"
-20	1.766[44.86]	1.533[38.94]
-30	2.266[57.56]	2.033[51.64
-40	2.766[70.26]	2.533[64.34]
-50	3.266[82.96]	3.033[77.04]

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.050 PITCH TERMINAL ARRAY ASSEMBLY

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

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REVISION AC

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

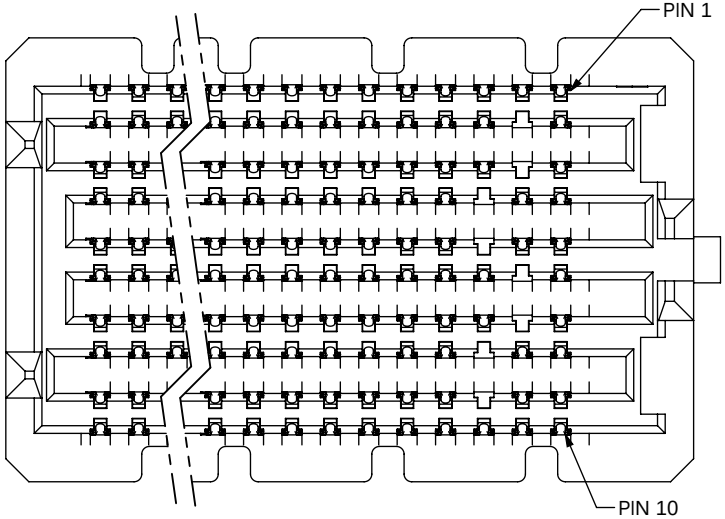


FIG. 10
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-08 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48 & 49

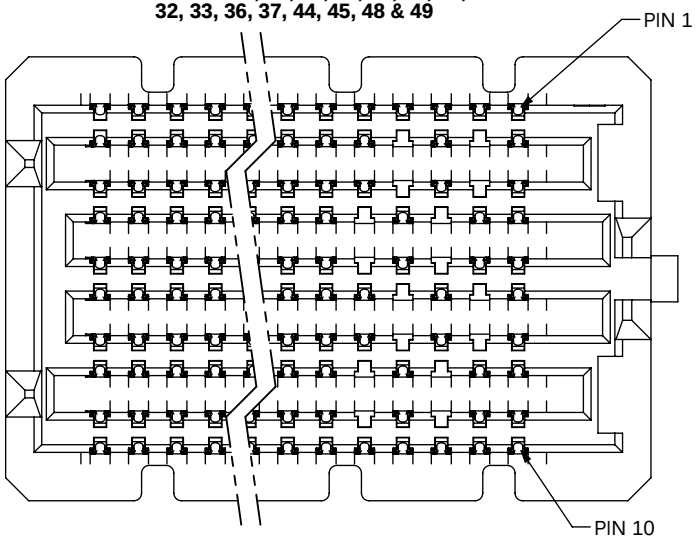


FIG. 11
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-12 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48, 49
52, 53, 56, 57, 64, 65, 68 & 69

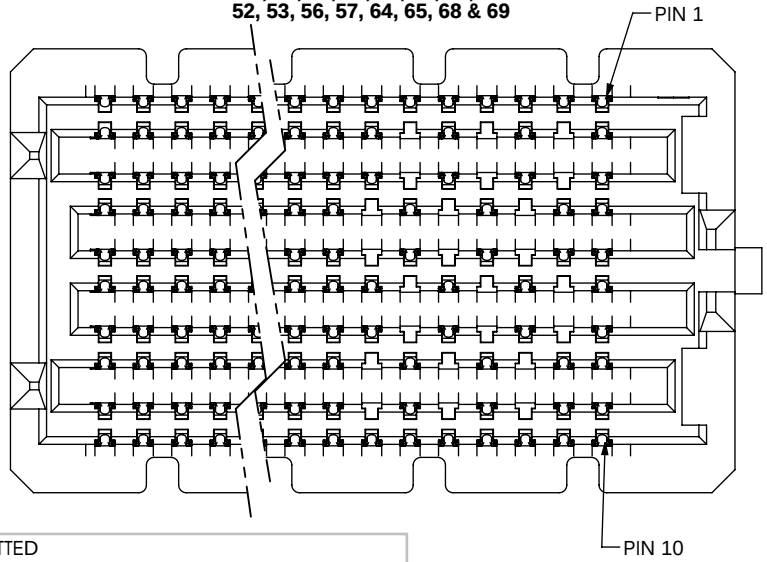
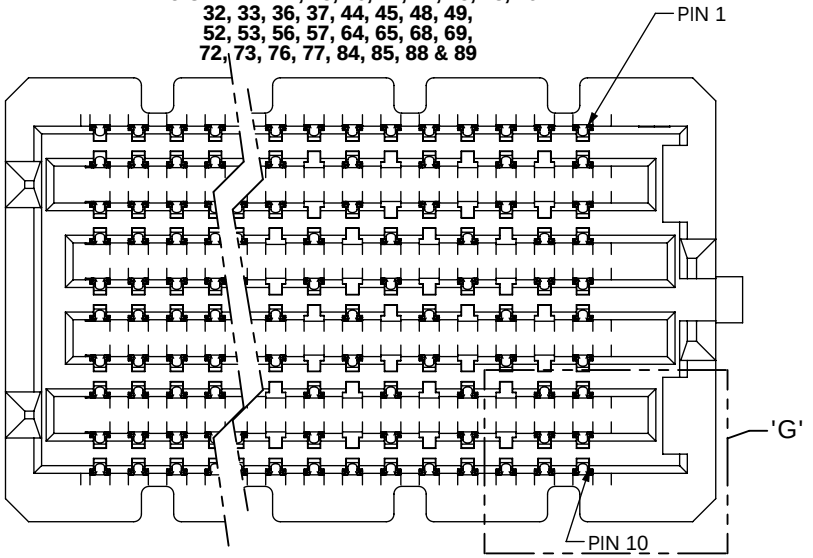
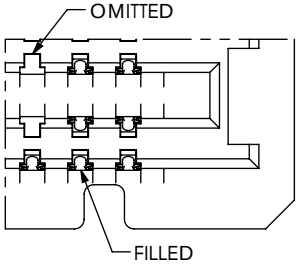


FIG. 12
-10: 10 ROW
(SEAM-30-02.0-XX-10-2-16 SHOWN)
PINS OMITTED 12, 13, 16, 17, 24, 25, 28, 29
32, 33, 36, 37, 44, 45, 48, 49,
52, 53, 56, 57, 64, 65, 68, 69,
72, 73, 76, 77, 84, 85, 88 & 89





DETAIL 'G'
SCALE 5 : 1

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DESCRIPTION:
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SEAM-XX-XX.X-XX-XX-X-XX

BY: BRATCHER 06/02/2004

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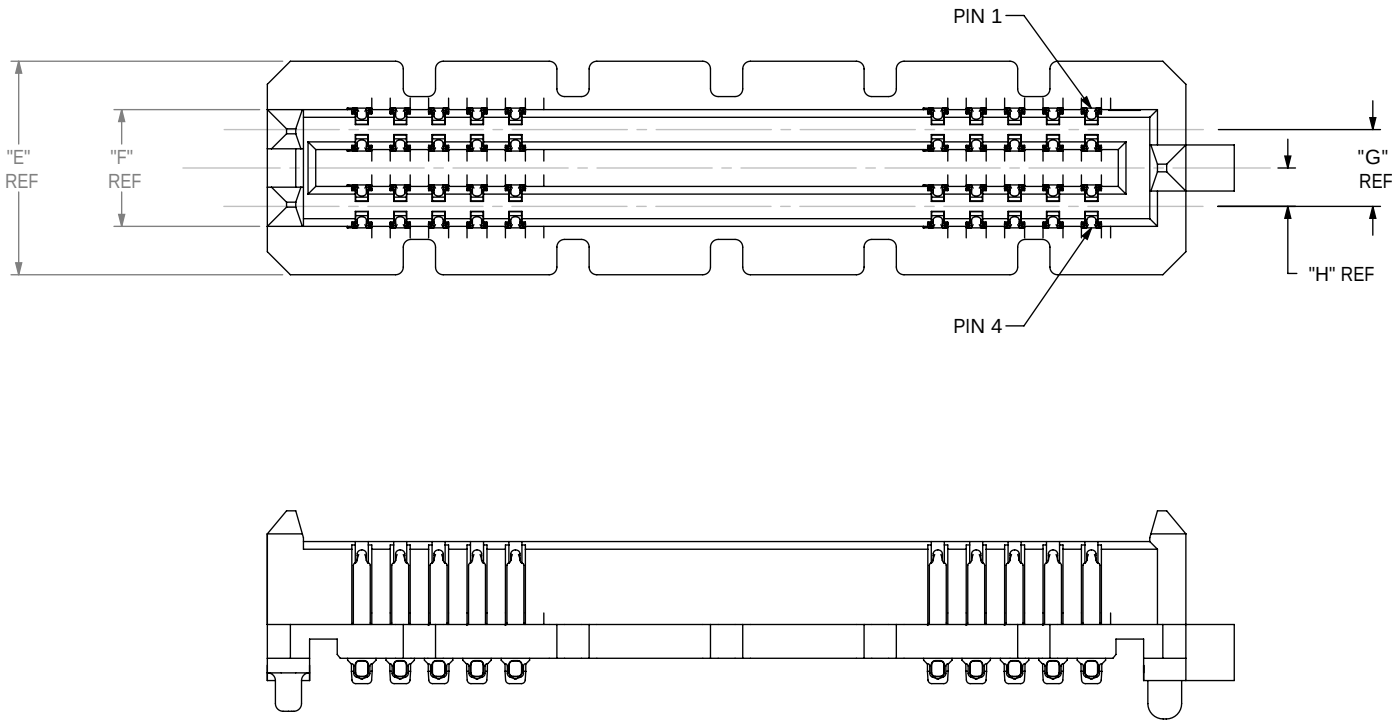
FIG. 13
-04: 4 ROW
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-04-1-A SHOWN)
(SOME CENTER FEATURES NOT SHOWN FOR CLARITY)



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