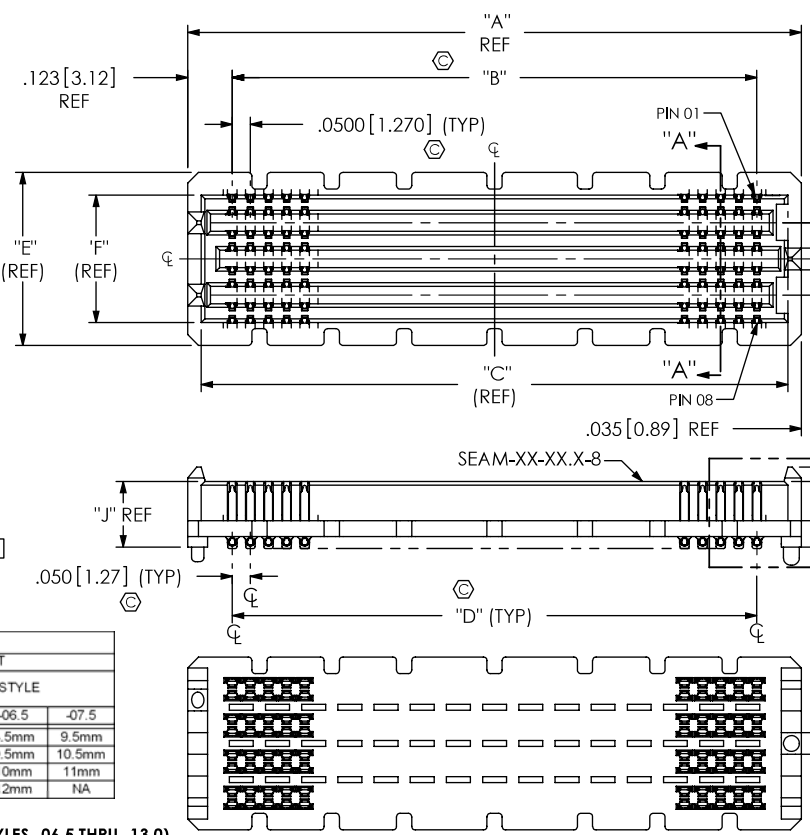


REVISION AY

PATENT NUMBER
7172438

DO NOT
SCALE FROM
THIS PRINT

FIG. 1 SEAM-10-07.0-S-04-2-A-K-TR SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR
 -08: 8 ROW
 (SEAM-30-02.0-XX-08-1-A-XX-K-TR SHOWN)
 (SOME CENTER FEATURES, INCLUDING -K, NOT SHOWN FOR CLARITY)



- No OF POSITIONS**
 -10,*-15****-19-20,
 *****-25,-30,-40,-50
 (PER ROW)
- LEAD STYLE**
 -02.0 (SEE TABLE 1 & 2)
 -03.0 (SEE TABLE 1 & 2)
 -03.5 (SEE TABLE 1 & 2)
 *-05.5 (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 6)
 (NOT AVAILABLE IN -13.0 LEAD STYLE)
 -05: 5 ROWS (SEE FIG. 7, SHT 4)
 -06: 6 ROWS (SEE FIG. 6, SHT 4)
 -08: 8 ROWS (SEE FIG. 1)
 -10: 10 ROWS (SEE FIG. 2, SHT 2)

- TAPE & REEL**
 (SEE NOTES 9, 10 & 11)
- POLYIMIDE PAD**
 (SEE FIG. 4, SHT 2)
 (SEE NOTE 8)
- 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
- OPTION**
 -GP: GUIDE POST (SEE FIG. 8, SHT 5)
 (ONLY AVAILABLE WITH -02.0 LEAD STYLE, 20, 30, 40, & 50 POSITION)
 -EP: EXTENDED GUIDE POST (SEE FIG. 10, SHT 5)
 (ONLY AVAILABLE WITH -02.0 & -03.5 LEAD STYLE, 20, 30, 40, & 50 POSITION)
- ALIGNMENT PIN**
 (SEE FIG. 3, SHT 2)
 (SEE NOTE 7)
 (SEE NOTE 14)
- 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)
 -3: 63% TIN / 37% LEAD
CRIMP TAIL
 (USE SUB-T-1M85-XX-X-X-1)
 (SEE FIG. 12, SHT 8)
 (ONLY AVAILABLE ON -02.0, -03.0 & -03.5 LEAD STYLES)
 -4: 95.5% TIN / 3.8% SILVER / .7% COPPER **CRIMP TAIL**
 (USE SUB-T-1M85-XX-X-X-2)
 (SEE FIG. 12, SHT 8)
 (ONLY AVAILABLE ON -02.0, -03.0 & -03.5 LEAD STYLES)

TABLE 12

LEAD STYLE	"AA"
-02.0	0.270 [0.686]
-03.0	0.690 [1.676]
-03.5	0.890 [2.184]
-05.5	1.640 [4.166]
-06.5	0.430 [1.092]
-07.0	0.430 [1.092]
-09.0	0.430 [1.092]
-11.0	0.430 [1.092]

TABLE 2
STACK HEIGHT

SEAM LEAD STYLE	-05.0	-06.0	-06.5	-07.5
-02.0	7mm	8mm	8.5mm	9.5mm
-03.0	8mm	9mm	9.5mm	10.5mm
-03.5	8.5mm	9.5mm	10mm	11mm
-05.5	NA	NA	12mm	NA

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

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
-05.5	0.319 [8.10]	SEAM-XX-05.5-XX-X	SUB-T-1M36-05.5-X-X

TABLE 13

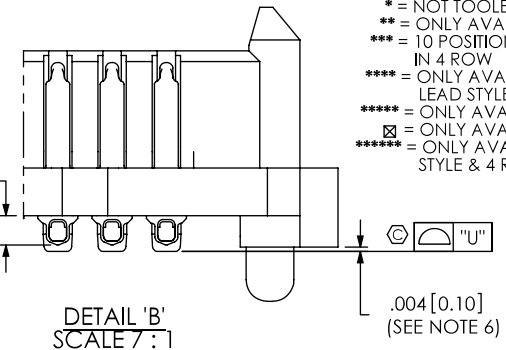
LEAD STYLE	"U"		
	10-30 POS.	40 POS.	50 POS.
-02.0, -03.0			
-03.5, -05.5, -06.5, -07.0, -09.0, *-13.0	.006 [0.152]	.009 [0.229]	.009 [0.229]
-11.0	.0085 [0.216]	.009 [0.229]	.009 [0.229]

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 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]



- * = NOT TOOLED
- ** = ONLY AVAILABLE WITH 19 POSITION, 6 ROWS
- *** = 10 POSITION ONLY AVAILABLE IN 4 ROW
- **** = ONLY AVAILABLE IN 6 ROW WITH -03.5 OR -05.5 LEAD STYLE
- ***** = ONLY AVAILABLE IN A 10 ROW
- ☒ = ONLY AVAILABLE IN 8 & 10 ROW
- ***** = ONLY AVAILABLE WITH -02.0 OR -03.5 LEAD STYLE & 4 ROW

- NOTES:
- ⊙ REPRESENTS A CRITICAL DIMENSION.
 - MINIMUM PUSHOUT FORCE: 0.75 LBS.
 - NOTE DELETED.
 - 5 ROW SOLDER TAILS ARE NOT SYMMETRICAL WITH BODY WIDTH (.378 [9.60]); SEE FIG. 7, SHEET 4.
 - C18 TO BE INSPECTED OPTICALLY WHILE FOCUSED ON THIS SURFACE.
 - DIMENSION TO BE MEASURED IN ALL FOUR CORNERS.
 - WITHOUT -A AVAILABLE FOR EXISTING CUSTOMERS ONLY AS OF REVISION AD.
 - POLYIMIDE PAD WILL BE SUPPLIED WHETHER OR NOT -K IS SPECIFIED.
 - TAPE & REEL WILL BE SUPPLIED WHETHER OR NOT -TR IS SPECIFIED.
 - FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR REEL WILL BE SUPPLIED. FOR QUANTITIES 50 - 124, NO LEADER OR TRAILER WILL BE SUPPLIED.
 - ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
 - SEE RECOMMENDED FOOTPRINT DRAWING FOR STENCIL REQUIREMENTS.
 - SOLDER CHARGE VOLUME IS 0.891 x 10^-5 IN ^3 REF.
 - FOR VITA REQUIREMENTS, -A PIN SHOULD NOT BE ORDERED.

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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 INSULATOR: LCP, COLOR: BLACK
 TERMINAL: COPPER ALLOY

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-A-XX-K-TR
 BY: BRATCHER 08-09-2010 SHEET 1 OF 8

REVISION AY

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

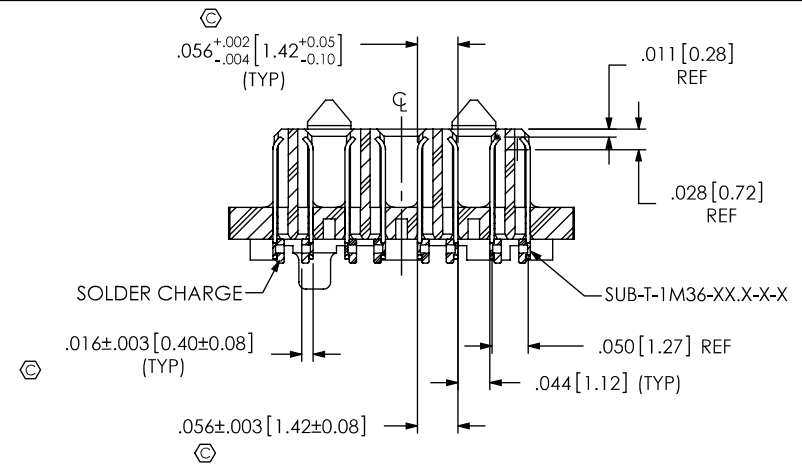
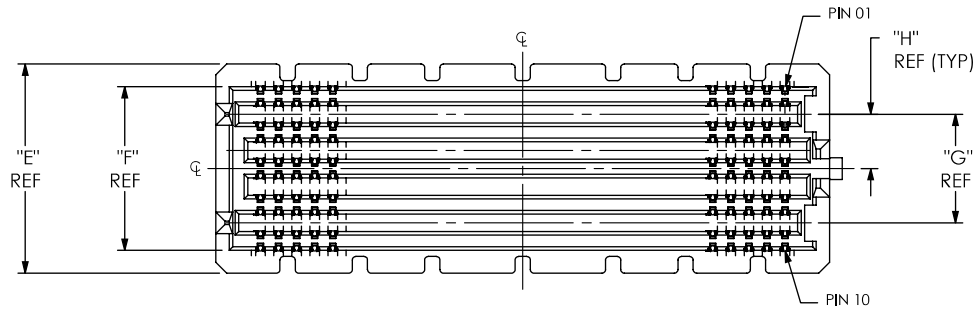
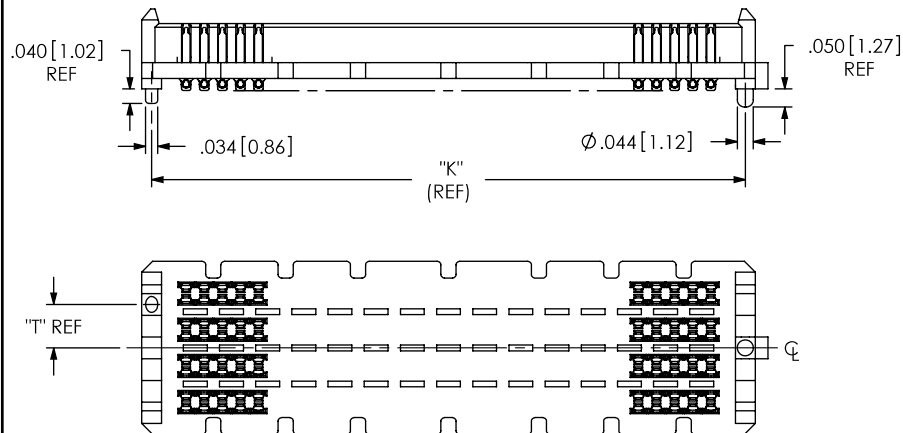


FIG. 3
 -A: ALIGNMENT PINS
 APPLIES TO ALL -A OPTION PART NUMBERS
 (SAME AS FIG. 1, EXCEPT AS SHOWN)
 (SEAM-30-02.0-XX-08-1-A-XX-K-TR SHOWN)
 (SOME CONTACTS NOT SHOWN FOR CLARITY)

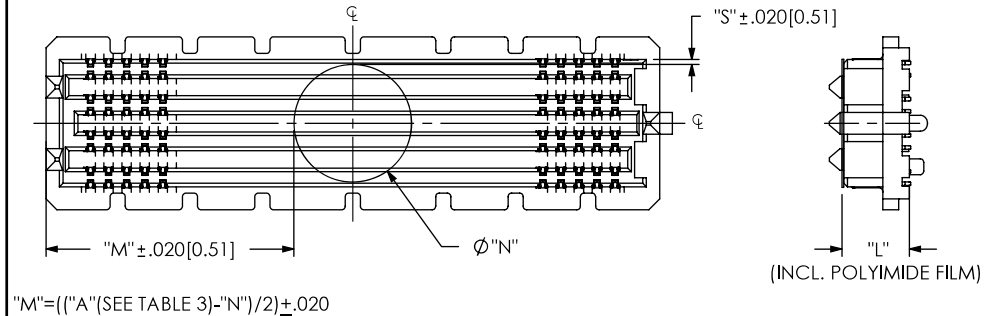


No. OF ROWS	"T"
-04	.079[2.01]
-05	.120[3.05]
-06	.120[3.05]
-08	.120[3.05]
-10	.120[3.05]

No. OF POS	"K"
***-10	.641[16.28]
*****-15	.891[22.63]
-20	1.141 [28.98]
*****-25	1.391[35.33]
-30	1.641 [41.68]
-40	2.141 [54.38]
-50	2.641 [67.08]

*** = 10 POSITION ONLY AVAILABLE IN 4 ROW
 ***** = ONLY AVAILABLE IN A 10 ROW
 ***** = ONLY AVAILABLE WITH -02.0 OR -03.5 LEAD STYLE AND A 4 ROW.

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



LEAD STYLE	"L"
-02.0	.186 [4.72]
-03.0	.225 [5.72]
-03.5	.245 [6.22]
-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]

* = NOT TOOLED

No. OF ROWS	ϕ "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]

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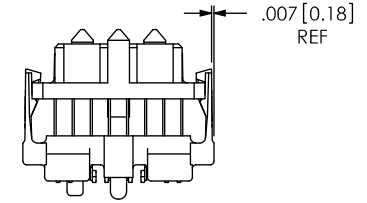
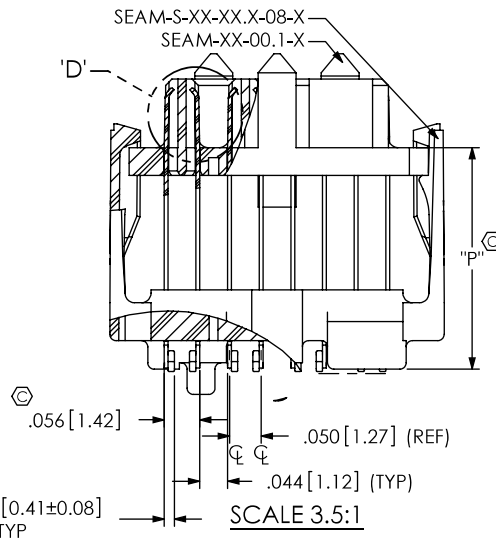
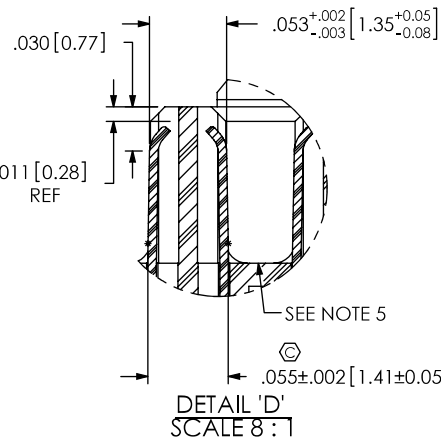
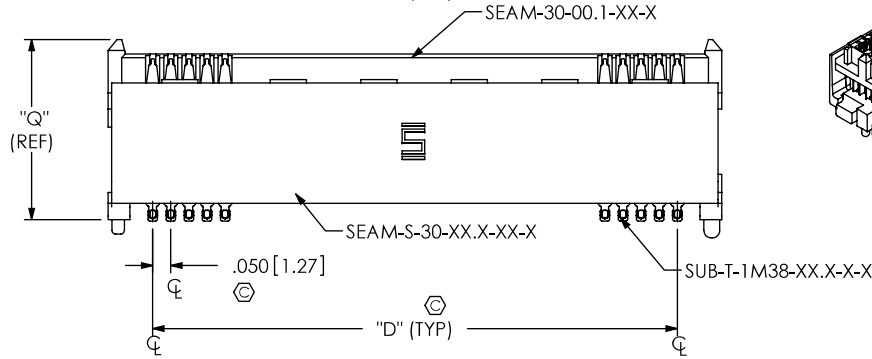
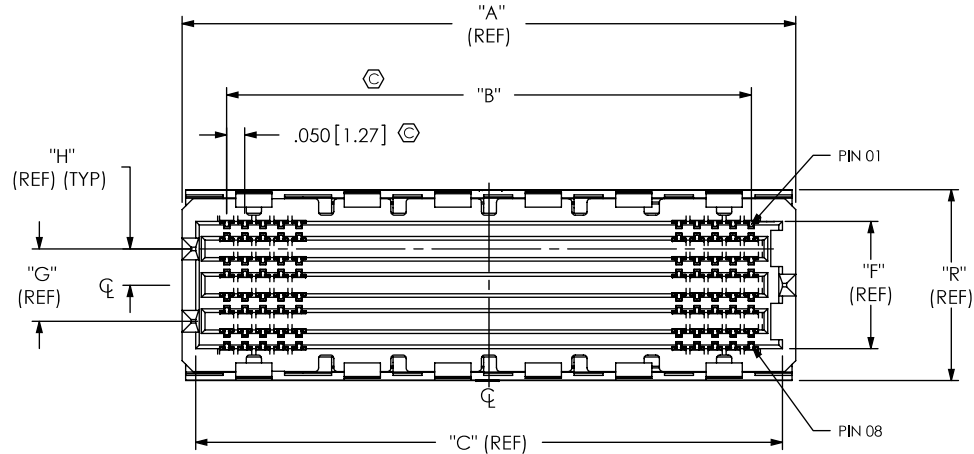
520 PARK EAST BLVD, NEW ALBANY, IN 47150
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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
 .050 PITCH TERMINAL ARRAY ASSEMBLY
 DWG. NO.
 SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR

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FIG. 5

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



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

TABLE 9
STACK HEIGHT

SEAM-S LEAD STYLE	SEAM LEAD STYLE			
	-05.0	-06.0	-06.5	-07.5
-6.5	11.5mm	12.5mm	13mm	14mm
-07.0	12mm	13mm	13.5mm	14.5mm
-09.0	14mm	15mm	15.5mm	16.5mm
-11.0	16mm	17mm	17.5mm	18.5mm
*-13.0	18mm	19mm	19.5mm	20.5mm

* = NOT TOOLED

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-XX
	-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-XX
	-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-XX
-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-XX
	-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-XX
	-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-XX
	*-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-XX
-06	-07.0	.271 [6.88]	.417 [10.60]	.428 [10.87]	SEAM-S-XX-07.0-08-X	SEAM-XX-00.1-06	SUB-T-1M38-07.0-XX
	-09.0	.350 [8.89]	.496 [12.60]	.428 [10.87]	SEAM-S-XX-09.0-08-X	SEAM-XX-00.1-06	SUB-T-1M38-09.0-XX
	-11.0	.429 [10.90]	.575 [14.60]	.428 [10.87]	SEAM-S-XX-11.0-08-X	SEAM-XX-00.1-06	SUB-T-1M38-11.0-XX
	*-13.0	.508 [12.90]	.654 [16.60]	.428 [10.87]	SEAM-S-XX-13.0-08-X	SEAM-XX-00.1-06	SUB-T-1M38-13.0-XX
-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-XX
	-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-XX
	-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-XX
	-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-XX
-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-XX
	-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-XX
	-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-XX
	-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-XX
	-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-XX
	*-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-XX

* = NOT TOOLED

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_050 PITCH TERMINAL ARRAY ASSEMBLY
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SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR
BY: BRATCHER 08-09-2010 SHEET 3 OF 8

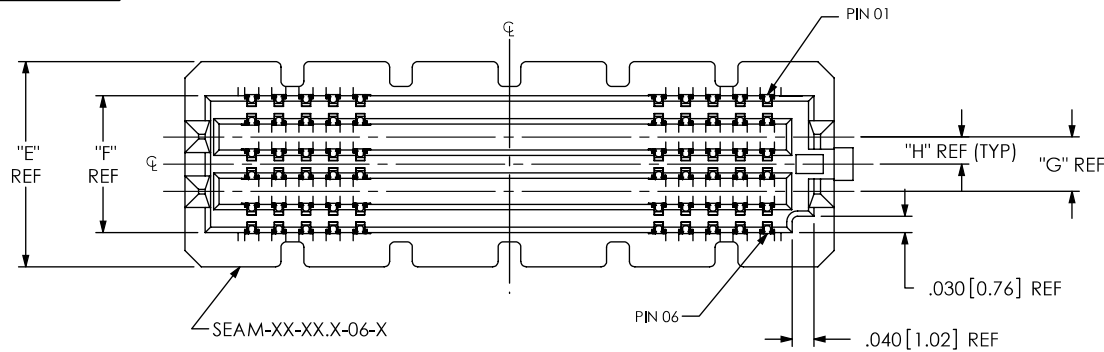


FIG. 6
-06: 6 ROWS
(SAME AS FIG. 1, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-06-X-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES, INCLUDING -K, NOT SHOWN FOR CLARITY)

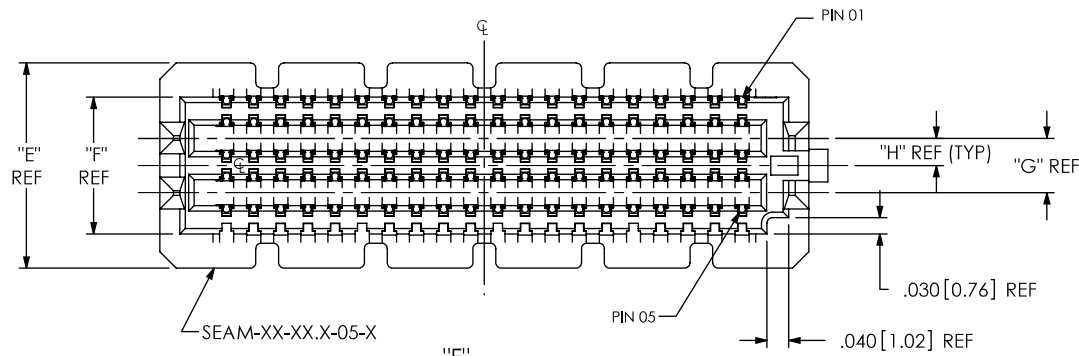
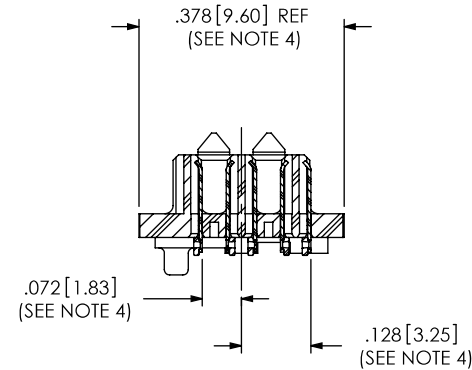
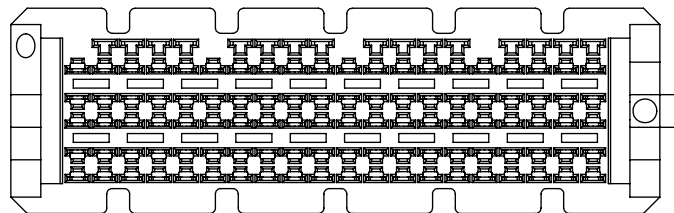
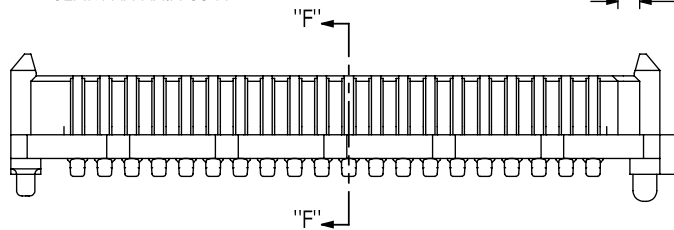


FIG. 7
-05: 5 ROWS
(SAME AS FIG. 6, EXCEPT AS SHOWN)
(SEAM-20-02.0-XX-05-X-A-XX-K-TR SHOWN)
(SEE NOTE 4)



SECTION "F"-"F"

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DESCRIPTION:

.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.

SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR

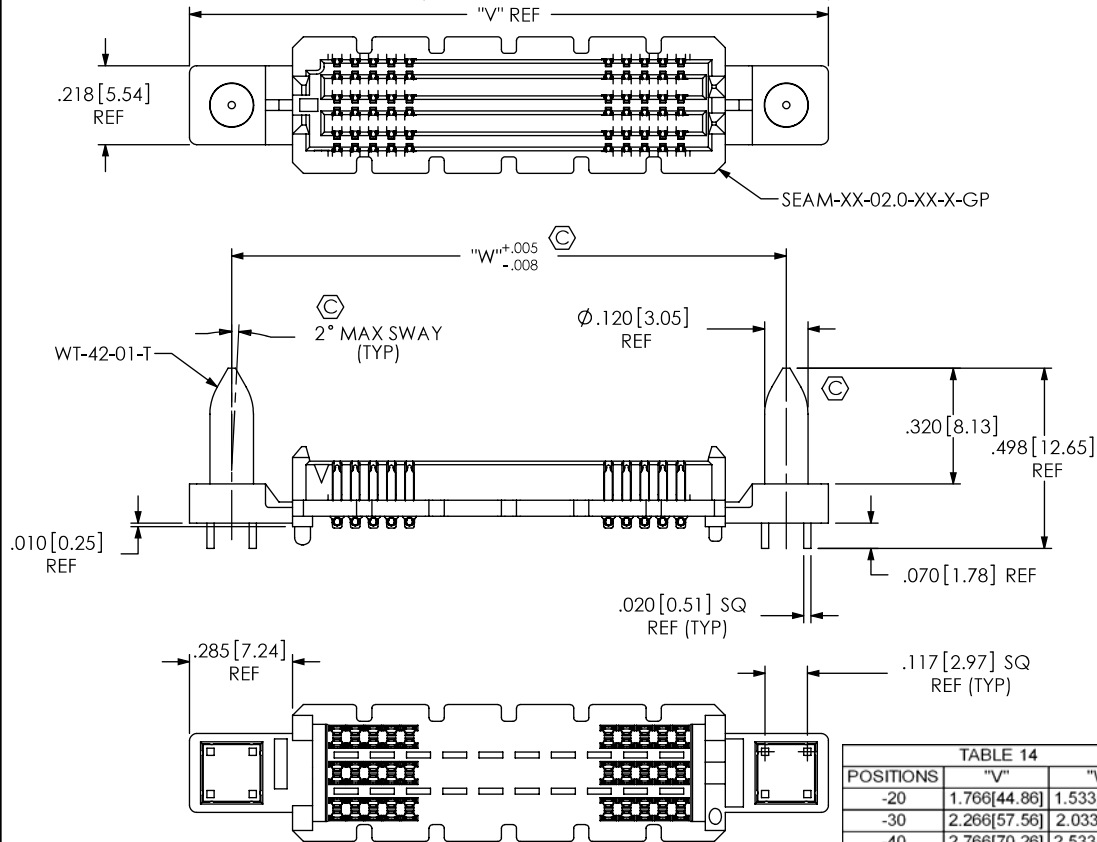
BY: BRATCHER 08-09-2010

SHEET 4 OF 8

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FIG. 8

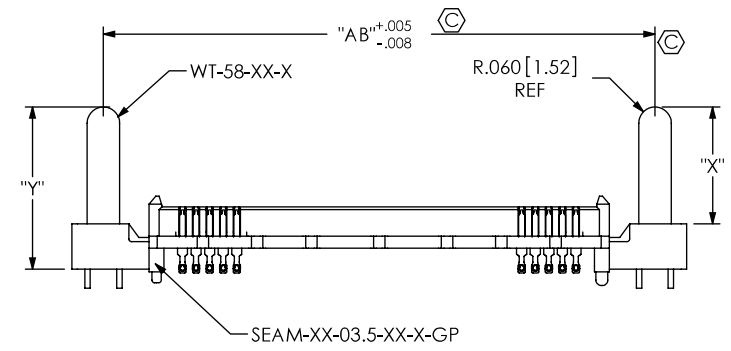
-GP: GUIDE POST OPTION
 (ONLY AVAILABLE WITH -.02.0 LEAD STYLE, 20, 30, 40, & 50 POSITIONS)
 (MATES WITH SEAF RIGHT ANGLE ONLY)
 (SAME AS FIG. 1, EXCEPT AS SHOWN)
 (SEAM-20-02.0-XX-06-2-A-GP-K-TR SHOWN)
 (SOME CONTACTS NOT SHOWN FOR CLARITY)



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]

FIG. 10

-EP: EXTENDED GUIDE POST OPTION
 (ONLY AVAILABLE WITH -.02.0 & -.03.5 LEAD STYLES,
 20, 30, 40, & 50 POSITIONS)
 (SAME AS FIG. 8, EXCEPT AS SHOWN)
 (SEAM-20-03.5-XX-06-2-A-EP-K-TR SHOWN)
 (SOME CONTACTS NOT SHOWN FOR CLARITY)



LEAD STYLE	"X"	"Y"	GUIDE POST
-02.0	.372[9.45]	.539[13.69]	WT-58-01-T
-03.5	.431[10.95]	.598[15.19]	WT-58-02-T

SEAM LEAD STYLE	SEAF LEAD STYLE	STACK HEIGHT
-02.0	-05.0	7MM
-03.5	-06.5	10MM

POSITIONS	"AB"
-20	1.533[38.94]
-30	2.033[51.64]
-40	2.533[64.34]
-50	3.033[77.04]

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DO NOT SCALE DRAWING

SHEET SCALE: 2:1

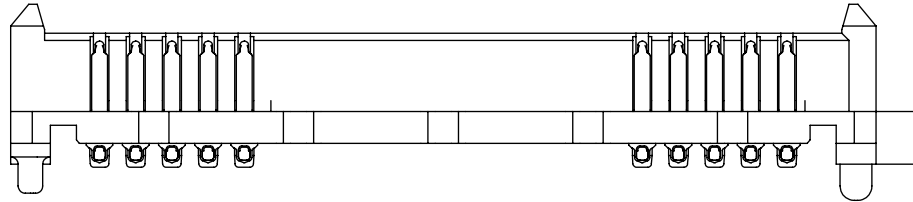
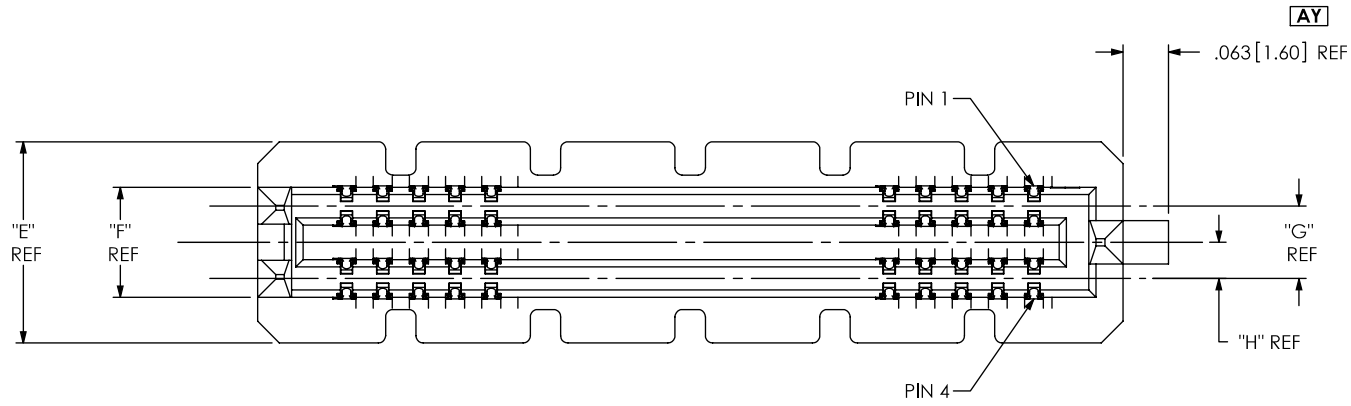


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 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
 .050 PITCH TERMINAL ARRAY ASSEMBLY
 DWG. NO.
 SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR

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FIG. 9
 -04: 4 ROW
 (SAME AS FIG. 1, EXCEPT AS SHOWN)
 (SEAM-20-02.0-XX-04-1-A-XX-K-TR SHOWN)
 (SOME CENTER FEATURES, INCLUDING -K, NOT SHOWN FOR CLARITY)



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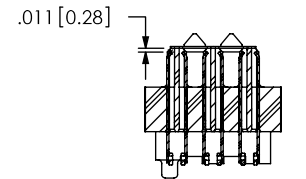
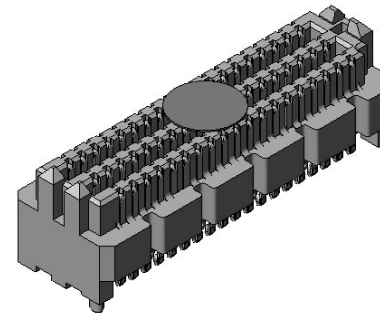
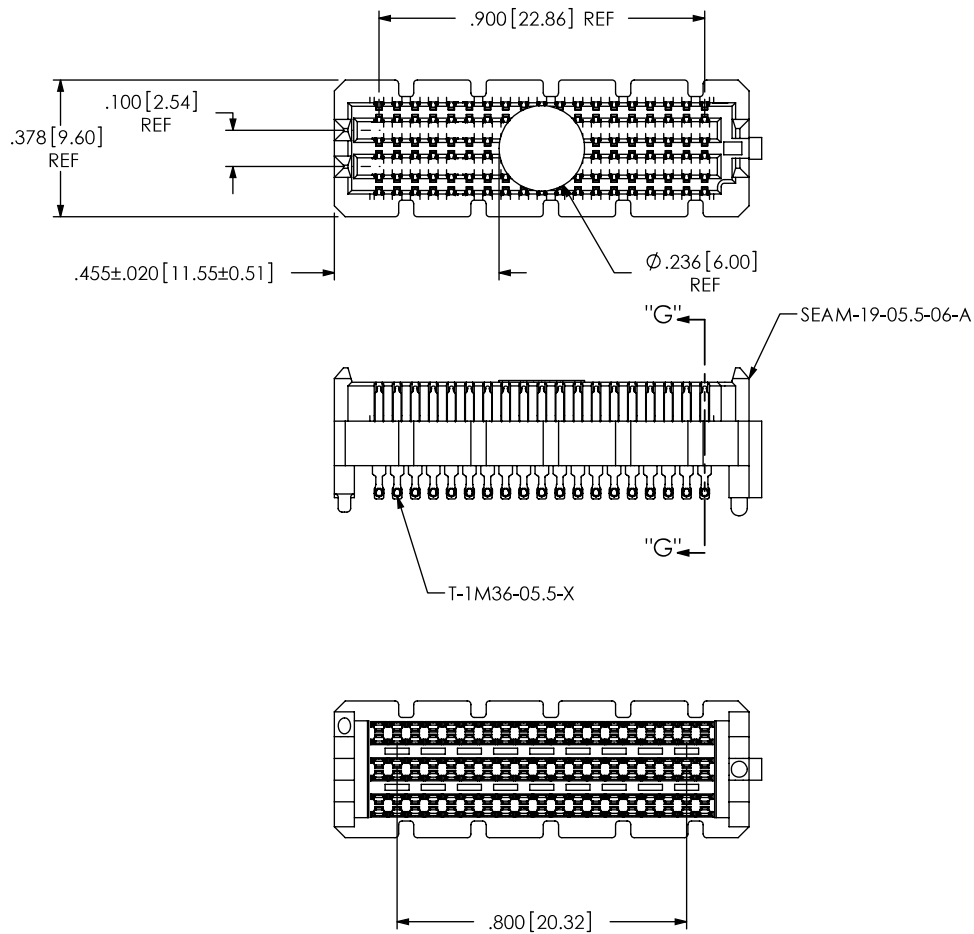
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FIG. 11

(SAME AS FIG. 1, EXCEPT AS SHOWN)
 (SEAM-19-05.5-XX-06-A-K-TR SHOWN)
 (ONLY AVAILABLE ON THE 6 ROW 19 POSITION)



SECTION "G"-"G"

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SHEET SCALE: 2:1



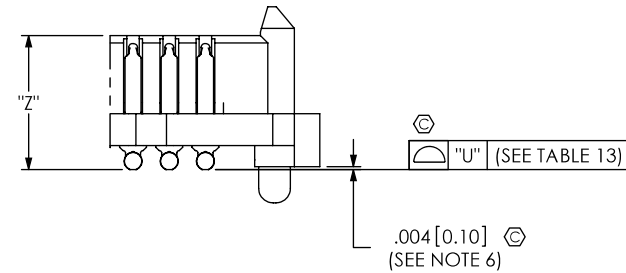
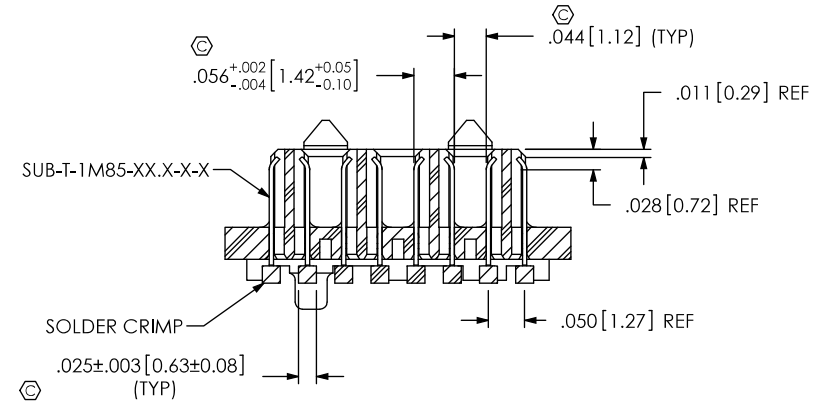
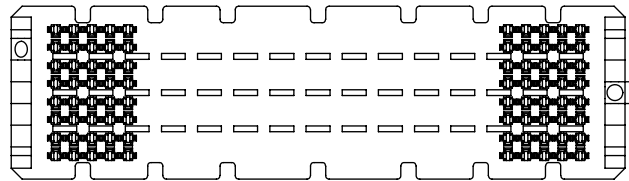
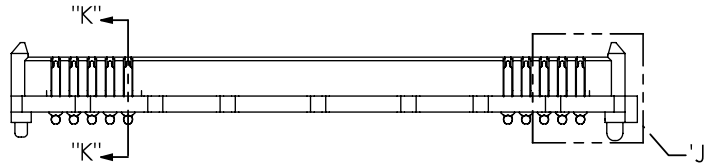
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FIG. 12
 CRIMP TAIL DETAILS
 (SEAM-30-02.0-XX-08-X-A-XX-K-TR SHOWN)
 (SAME AS FIG. 1 UNLESS OTHERWISE SPECIFIED)
 (ONLY AVAILABLE ON -02.0, -03.0 & -03.5 LEAD STYLES)
 (SOME CENTER FEATURES, INCLUDING -K, NOT SHOWN FOR CLARITY)



LEAD STYLE	"Z"
-02.0	.1850 [4.699]
-03.0	.2240 [5.690]
-03.5	.2420 [6.147]

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