

DO NOT  
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IN INCHES[MILLIMETERS]

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

## No OF POSITIONS

□-10, ▣-15,\*\*-19-20,  
△-25,-30,-40,-50  
(PER ROW)TAPE & REEL  
(SEE NOTES 9 & 10)K DOT  
(SEE FIG 11, SHT 7)  
DOT APPLICATOR-KAPTON TAPE.

## OPTION

-GP: GUIDE POST  
(SEE FIG. 9, SHT 6)  
(ONLY AVAILABLE WITH -.02.0 LEAD  
STYLE, 20, 30, 40, & 50 POSITION)  
-EP: EXTENDED GUIDE POST  
(SEE FIG. 10, SHT 6)  
(ONLY AVAILABLE WITH  
-.02.0 & -.03.5\* LEAD STYLE  
20, 30, 40, & 50 POSITION)ALIGNMENT PIN  
(SEE NOTE 6)

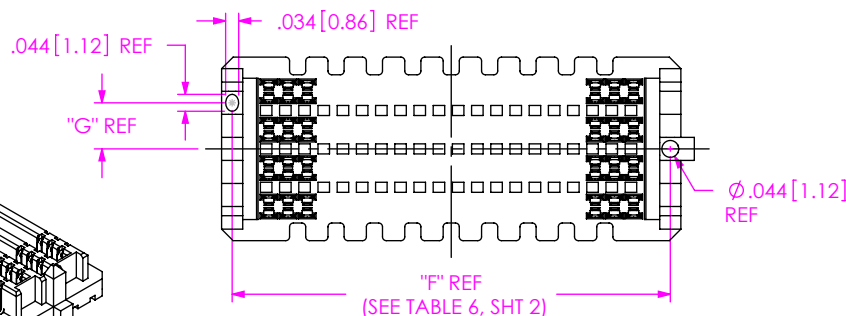
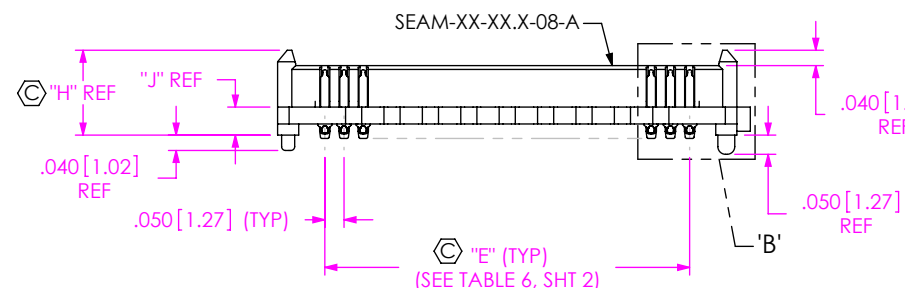
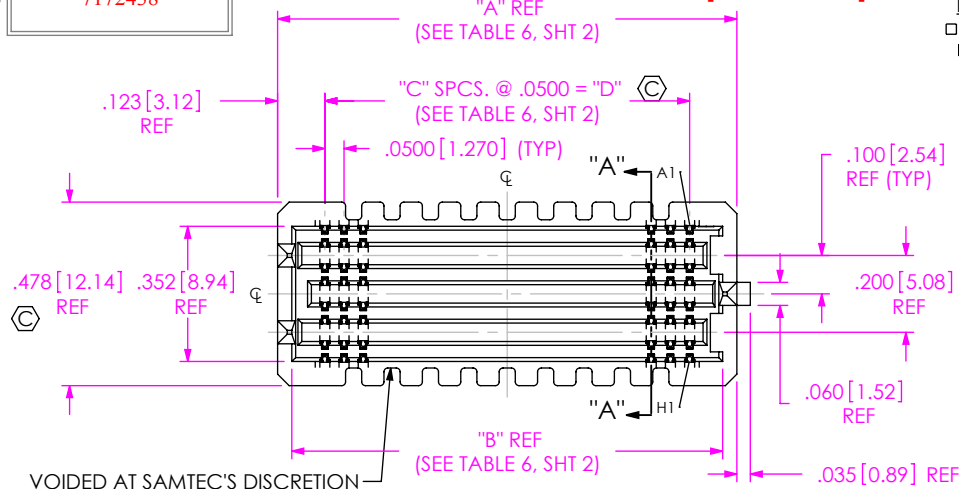
## SOLDER COMPOSITION &amp; STYLE

-1: 63% TIN / 37% LEAD  
**CHARGE TAIL**  
(USE NEW-T-1M3X-XX.X-XXX-1)  
-2: 95.5% TIN / 3.8% SILVER / .7% COPPER  
**CHARGE TAIL**  
(USE NEW-T-1M3X-XX.X-XXX-2)

## ROW

-04: 4 ROWS (SEE FIG 3, SHT 4)  
(NOT AVAILABLE IN -.13.0 LEAD STYLE)  
-05: 5 ROWS (SEE FIG 7, SHT 5) (SEE NOTE 14)  
-06: 6 ROWS (SEE FIG 6, SHT 5)  
-08: 8 ROWS (SEE FIG 1)  
-10: 10 ROWS (SEE FIG 4, SHT 4)  
■-14: 14 ROWS (SEE FIG 5, SHT 4)

\* = NOT TOOLED

□ = 10 POSITION ONLY AVAILABLE IN -.04 ROW LEAD  
STYLES -.02.0, -.03.0, -.03.5, -.07.0, -.09.0, -.11.0.  
AVAILABLE IN -.06 ROW LEAD STYLES -.02.0, -.03.0, -.03.5▣ = ONLY AVAILABLE IN A 10 ROW:  
4 ROW, -.02.0 LEAD STYLE AVAILABLE△ = ONLY AVAILABLE WITH -.02.0 OR -.03.5 LEAD STYLE & 4 ROW;  
-.03.0 AVAILABLE\*\* = ONLY AVAILABLE IN 6 ROW WITH -.03.5 OR -.05.5  
LEAD STYLE\*\*\* = ONLY AVAILABLE WITH 19 POSITION, 6 ROWS  
\*\*\*\* = ONLY AVAILABLE IN 8 & 10 ROW■ = 14 ROW ONLY AVAILABLE IN -.40 POSITION, -.02.0 AND -.03.5  
BODY HEIGHTS.FIG 1  
-08: 8 ROW  
(SEAM-30-02.0-XXX-08-1-A-XX-K-TR SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

## NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: 0.50 LBS.
3. NOTE DELETED.
4. 5 ROW SOLDER TAILS ARE NOT SYMMETRICAL WITH BODY WIDTH (.378[9.60] SEE FIG. 7, SHEET 5).
5. WHEN APPLICABLE, DIMENSION C8 MUST BE MEASURED USING INSPECTION FIXTURE AT-1817-836-1 FOR 4 ROW OR AT-1817-836-2 FOR 6, 8 & 10 ROW. USE CO-AU-WI-2003-M FOR PROCESS.
6. WITHOUT -A AVAILABLE FOR EXISTING CUSTOMERS ONLY AS OF REVISION AD.
7. NOTE DELETED.
8. NOTE DELETED.
9. 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.
10. ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
11. SOLDER CHARGE VOLUME IS 0.891 x 10<sup>-5</sup> IN <sup>3</sup> REF.
12. NOTE DELETED.
13. MEASURED FIRST AND LAST POSITIONS ONLY, ALL ROWS.
14. THESE OPTIONS AVAILABLE AS ASO (APPLICATION SPECIFIC OPTIONS) ONLY. PLEASE CONTACT SAMTEC FOR MORE INFORMATION.

TABLE 2

No. OF ROWS	"G"
-04	.079 [2.01]
-05, -06	.120 [3.05]
-08	.120 [3.05]
-10	.120 [3.05]
-14	.120 [3.05]

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

## TOLERANCES ARE:

DECIMALS ANGLES  
.XX: ±.01 [0.3] 2°  
.XXX: ±.005 [0.13]  
.XXXX: ±.0020 [0.051]

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WRITTEN CONSENT OF SAMTEC, INC.MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, COLOR: BLACK  
TERMINAL: COPPER ALLOY

SHEET SCALE: 2:1

DESCRIPTION:

.050 PITCH TERMINAL ARRAY ASSEMBLY

DWG. NO.

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

BY: BRATCHER 08-09-2010

SHEET 1 OF 7

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
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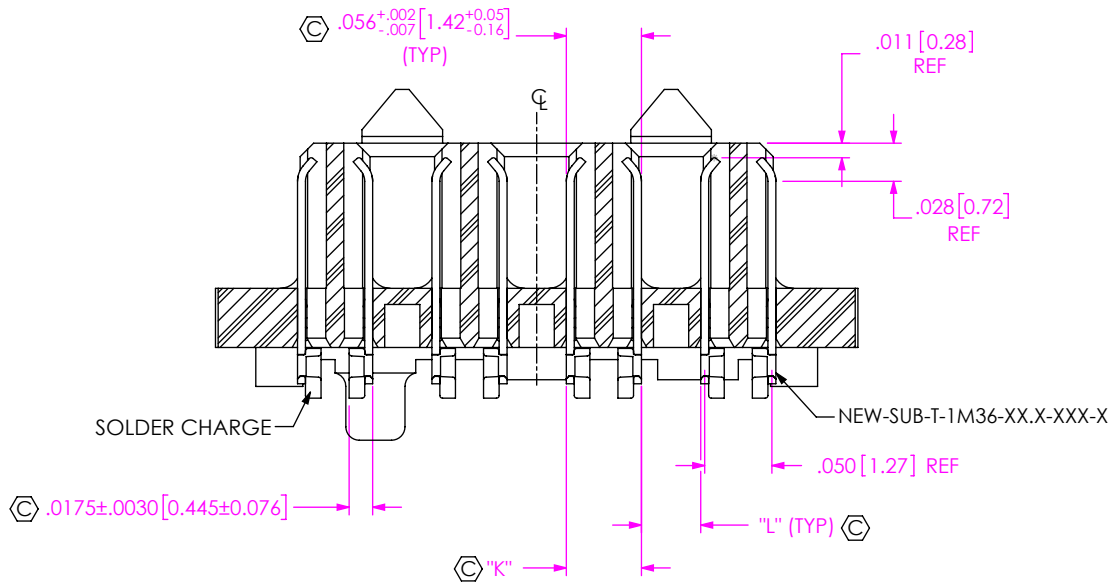
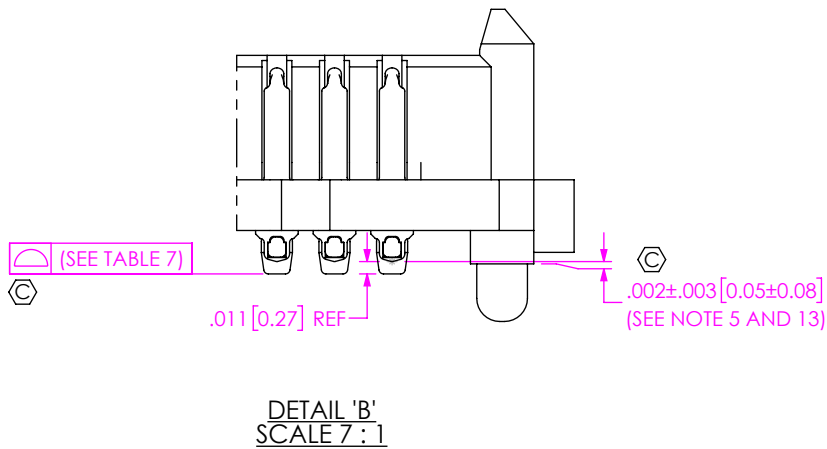


TABLE 3				
STACK HEIGHT				
SEAM LEAD STYLE	-05.0	-06.0	-06.5	-07.5
-02.0	7mm	8mm	8.5mm	9.5mm
-03.0	8mm	9mm	9.5mm	10.5mm
-03.5	8.5mm	9.5mm	10mm	11mm
-05.5	NA	NA	12mm	NA
-06.5	11.5mm	12.5mm	13mm	14mm
-07.0	12mm	13mm	13.5mm	14.5mm
-09.0	14mm	15mm	15.5mm	16.5mm
-11.0	16mm	17mm	17.5mm	18.5mm
*-13.0	18mm	19mm	19.5mm	20.5mm

(\* = NOT TOOLED)

TABLE 5				
LEAD STYLE	"K"		"L"	
-02.0	.0530 - .0590	[1.346] - [1.499]	.0470 - .0410	[1.194] - [1.041]
-03.0	.0530 - .0620	[1.346] - [1.575]	.0470 - .0380	[1.194] - [0.965]
-03.5	.0530 - .0645	[1.346] - [1.638]	.0470 - .0355	[1.194] - [0.902]
-05.5	.0530 - .0645	[1.346] - [1.638]	.0470 - .0355	[1.194] - [0.902]

TABLE 6						
No. OF POS	"A"	"B"	"C"	"D"	"E"	"F"
□ -10	.696 [17.68]	.622 [15.80]	9	.4500 [11.430]	.4500 [11.430]	.641 [16.28]
⊠ -15	.946 [24.03]	.872 [22.15]	14	.7000 [17.780]	.7000 [17.780]	.891 [22.63]
** -19	1.146 [29.11]	1.072 [27.23]	18	.9000 [22.860]	.9000 [22.860]	1.091 [27.71]
-20	1.196 [30.38]	1.122 [28.50]	19	.9500 [24.130]	.9500 [24.130]	1.141 [28.98]
▤ -25	1.446 [36.73]	1.372 [34.85]	24	1.2000 [30.480]	1.2000 [30.480]	1.391 [35.33]
-30	1.696 [43.08]	1.622 [41.20]	29	1.4500 [36.830]	1.4500 [36.830]	1.641 [41.68]
-40	2.196 [55.78]	2.122 [53.90]	39	1.9500 [49.530]	1.9500 [49.530]	2.141 [54.38]
-50	2.696 [68.48]	2.622 [66.60]	49	2.4500 [62.230]	2.4500 [62.230]	2.641 [67.08]

TABLE 7			
LEAD STYLE	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]		

(\* = NOT TOOLED)

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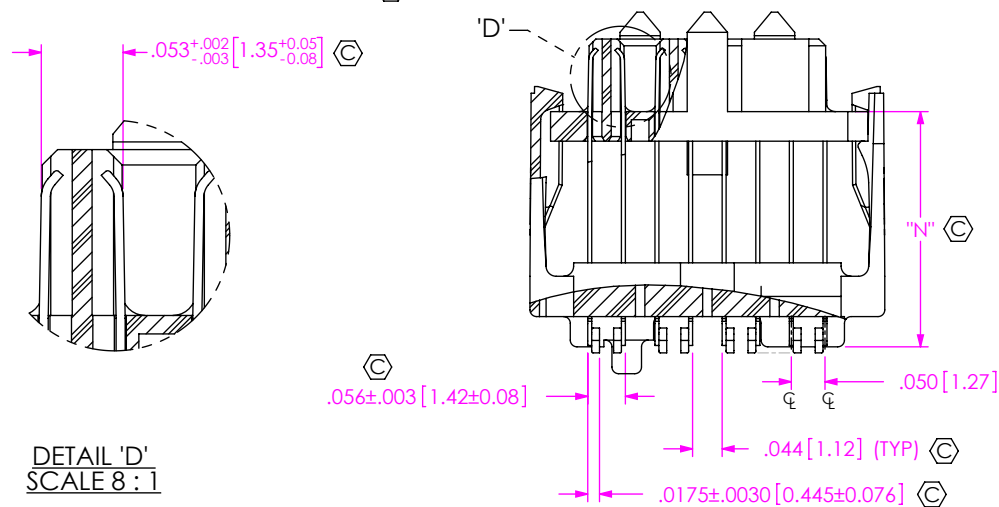
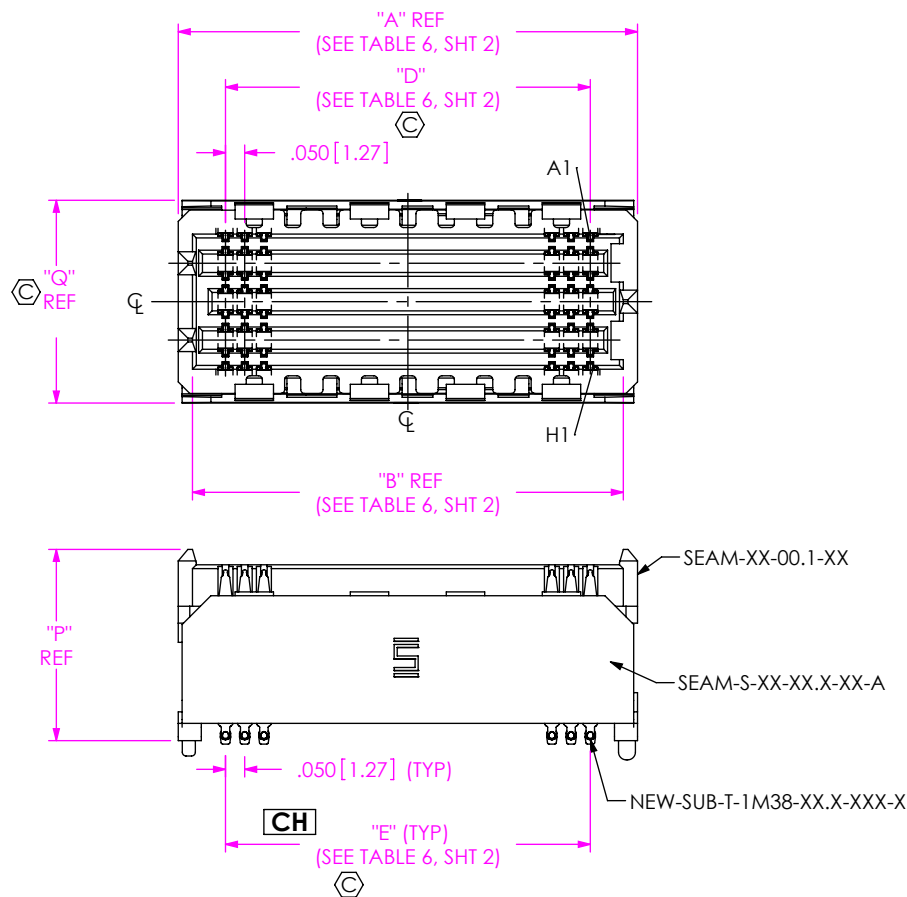
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**samtec**

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

DESCRIPTION:  
.050 PITCH TERMINAL ARRAY ASSEMBLY  
DWG. NO.  
SEAM-XX-XX.X-XXX-XX-X-A-XX-K-TR  
BY: BRATCHER 08-09-2010 SHEET 2 OF 7

**FIG 2**  
 -06.5 THRU -13.0 LEAD STYLES  
 (SEAM-20-09.0-XXX-08-1-A SHOWN)  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



SCALE 3.5:1

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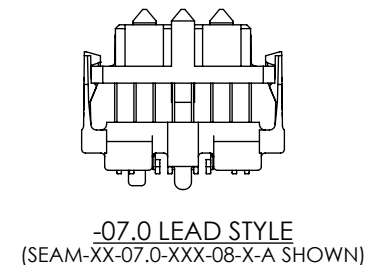
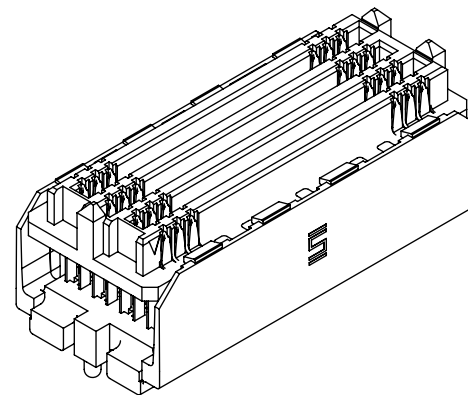


TABLE 8								
ROW	STYLE	"N"	"P"	"Q"	SPACER BODY	TOP BODY	TERMINAL	
-04	-07.0	.271 [6.88]	.417 [10.59]	.328 [8.33]	SEAM-S-XX-07.0-04-A	SEAM-XX-00.1-04	NEW-SUB-T-1M38-07.0-XXX-X	
	-09.0	.350 [8.89]	.496 [12.60]	.328 [8.33]	SEAM-S-XX-09.0-04-A	SEAM-XX-00.1-04	NEW-SUB-T-1M38-09.0-XXX-X	
	-11.0	.429 [10.90]	.575 [14.61]	.328 [8.33]	SEAM-S-XX-11.0-04-A	SEAM-XX-00.1-04	NEW-SUB-T-1M38-11.0-XXX-X	
-05	-07.0	.271 [6.88]	.417 [10.59]	.428 [10.87]	SEAM-S-XX-07.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-07.0-XXX-X	
	-09.0	.350 [8.89]	.496 [12.60]	.428 [10.87]	SEAM-S-XX-09.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-09.0-XXX-X	
	-11.0	.429 [10.90]	.575 [14.61]	.428 [10.87]	SEAM-S-XX-11.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-11.0-XXX-X	
-06	*-13.0	.508 [12.90]	.654 [16.61]	.428 [10.87]	SEAM-S-XX-13.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-13.0-XXX-X	
	-07.0	.271 [6.88]	.417 [10.59]	.428 [10.87]	SEAM-S-XX-07.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-07.0-XXX-X	
	-09.0	.350 [8.89]	.496 [12.60]	.428 [10.87]	SEAM-S-XX-09.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-09.0-XXX-X	
-08	-11.0	.429 [10.90]	.575 [14.61]	.428 [10.87]	SEAM-S-XX-11.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-11.0-XXX-X	
	*-13.0	.508 [12.90]	.654 [16.61]	.428 [10.87]	SEAM-S-XX-13.0-06-A	SEAM-XX-00.1-06	NEW-SUB-T-1M38-13.0-XXX-X	
	-06.5	.252 [6.40]	.400 [10.16]	.528 [13.41]	SEAM-S-XX-06.5-08-A	SEAM-XX-00.1-08	NEW-SUB-T-1M38-06.5-XXX-X	
-10	-07.0	.271 [6.88]	.417 [10.59]	.528 [13.41]	SEAM-S-XX-07.0-08-A	SEAM-XX-00.1-08	NEW-SUB-T-1M38-07.0-XXX-X	
	-09.0	.350 [8.89]	.496 [12.60]	.528 [13.41]	SEAM-S-XX-09.0-08-A	SEAM-XX-00.1-08	NEW-SUB-T-1M38-09.0-XXX-X	
	-11.0	.429 [10.90]	.575 [14.61]	.528 [13.41]	SEAM-S-XX-11.0-08-A	SEAM-XX-00.1-08	NEW-SUB-T-1M38-11.0-XXX-X	
-10	*-13.0	.508 [12.90]	.654 [16.61]	.528 [13.41]	SEAM-S-XX-13.0-08-A	SEAM-XX-00.1-08	NEW-SUB-T-1M38-13.0-XXX-X	
	-06.5	.252 [6.40]	.400 [10.16]	.628 [15.95]	SEAM-S-XX-06.5-10-A	SEAM-XX-00.1-10	NEW-SUB-T-1M38-06.5-XXX-X	
	-07.0	.271 [6.88]	.417 [10.59]	.628 [15.95]	SEAM-S-XX-07.0-10-A	SEAM-XX-00.1-10	NEW-SUB-T-1M38-07.0-XXX-X	
-10	-09.0	.350 [8.89]	.496 [12.60]	.628 [15.95]	SEAM-S-XX-09.0-10-A	SEAM-XX-00.1-10	NEW-SUB-T-1M38-09.0-XXX-X	
	-11.0	.429 [10.90]	.575 [14.61]	.628 [15.95]	SEAM-S-XX-11.0-10-A	SEAM-XX-00.1-10	NEW-SUB-T-1M38-11.0-XXX-X	
	*-13.0	.508 [12.90]	.654 [16.61]	.628 [15.95]	SEAM-S-XX-13.0-10-A	SEAM-XX-00.1-10	NEW-SUB-T-1M38-13.0-XXX-X	

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 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-XXX-XX-X-A-XX-K-TR**  
 BY: BRATCHER 08-09-2010 SHEET 3 OF 7

FIG 3  
-04: 4 ROW  
(SEAM-20-02.0-XXX-04-1-A SHOWN)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

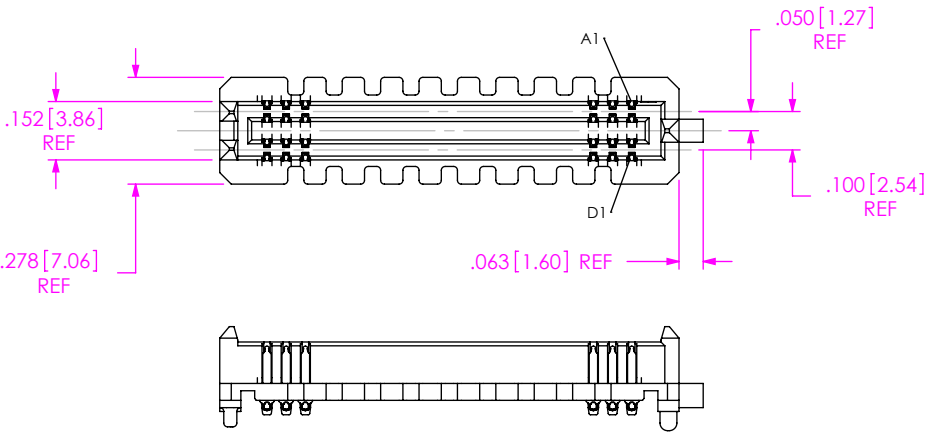


FIG 4  
-10: 10 ROW  
(SEAM-20-02.0-XXX-10-1-A SHOWN)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
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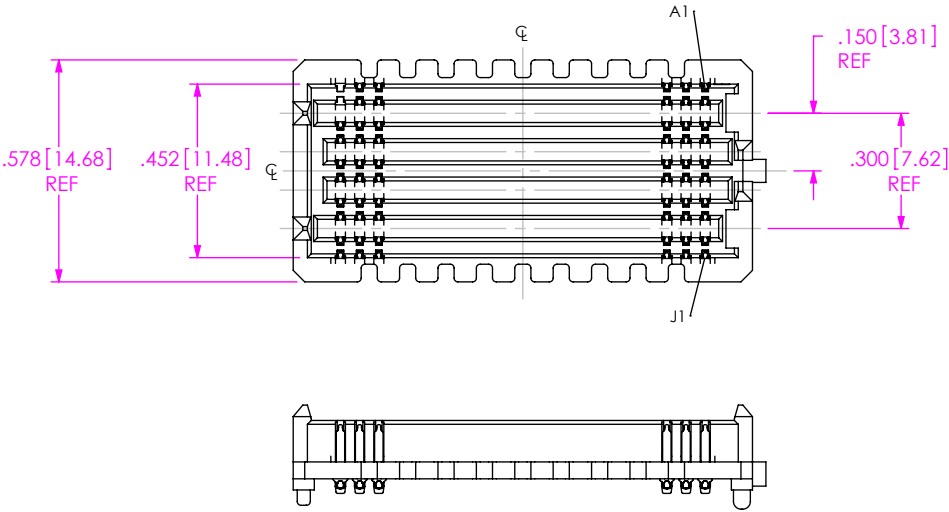
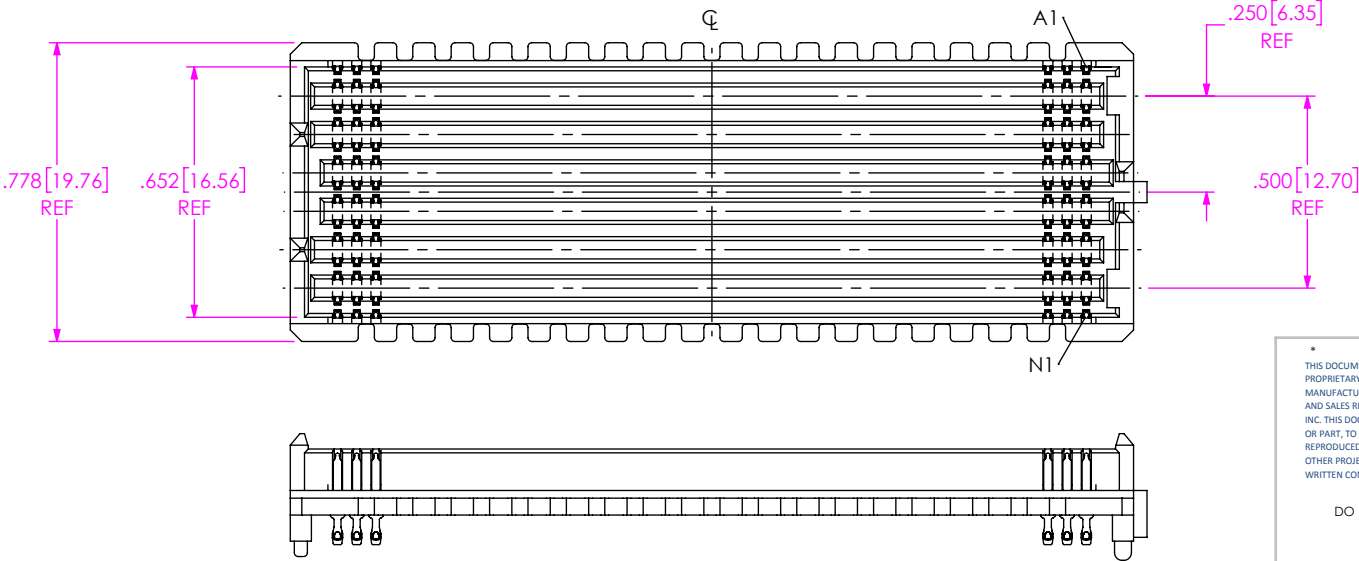


FIG 5  
-14: 14 ROW  
(SEAM-40-03.5-S-14-2-A-K-TR SHOWN)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)  
(ONLY AVAILABLE IN 40 POSITION, -02.0 AND -03.5 BODY HEIGHTS)



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BY: BRATCHER 08-09-2010 SHEET 4 OF 7

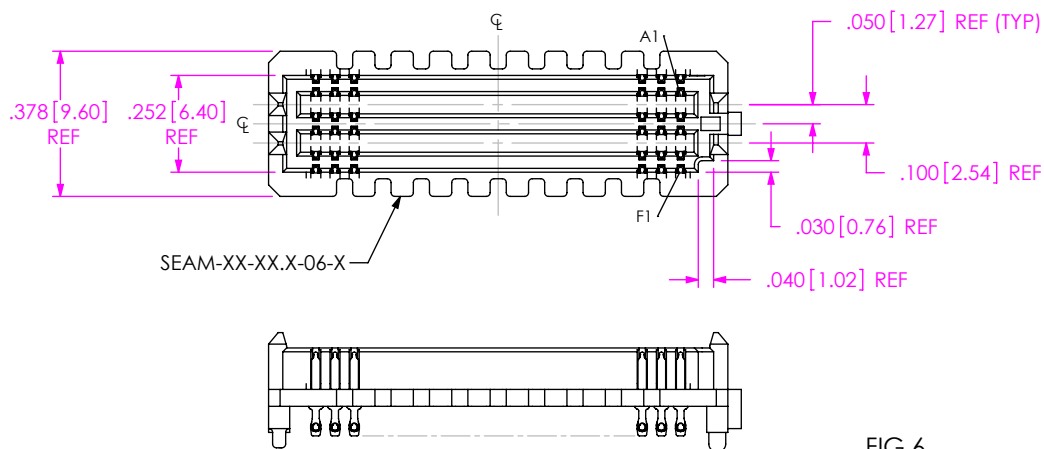


FIG 6  
-06: 6 ROWS  
(SEAM-20-03.0-XXX-06-1-A SHOWN)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

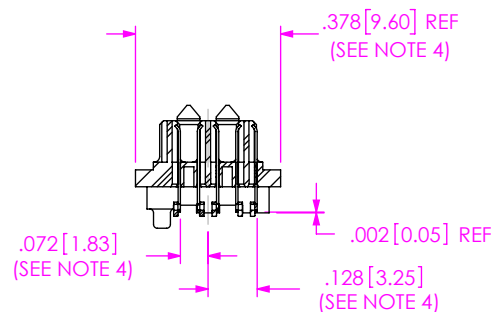
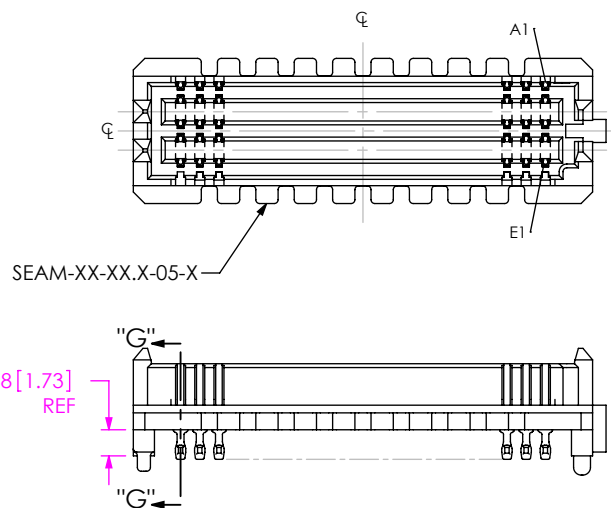
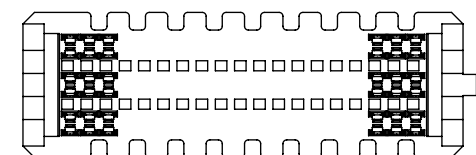
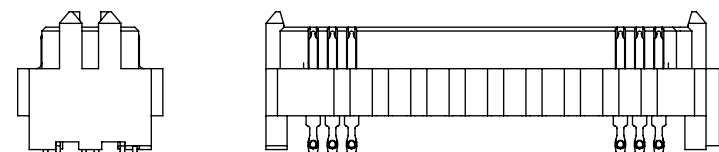
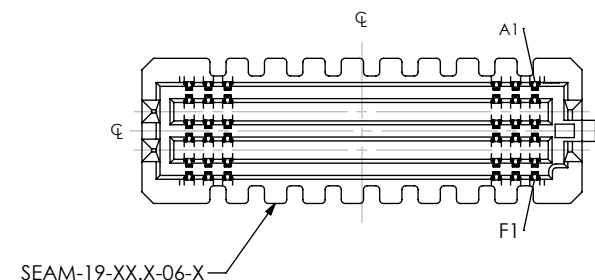


FIG 7  
-05: 5 ROWS  
(SEAM-20-03.5-XXX-05-1-A SHOWN)  
(SAME AS FIG 6, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)  
(SEE NOTE 4)

FIG 8  
-19: 19 POSITIONS  
(SEAM-19-05.5-XXX-06-1 SHOWN)  
(ONLY AVAILABLE IN -06 ROW WITH -03.5 OR -05.5 LEAD STYLE)  
(SAME AS FIG 6, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)



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	DWG. NO. SEAM-XX-XX.X-XXX-XX-X-A-XX-K-TR	
DO NOT SCALE DRAWING	BY: BRATCHER 08-09-2010	SHEET 5 OF 7
SHEET SCALE: 2:1		

FIG 9

-GP: GUIDE POST OPTION  
(ONLY AVAILABLE WITH -.02.0 LEAD STYLE, 20, 30, 40, & 50 POSITIONS)  
(MATES WITH SEAF RIGHT ANGLE ONLY)  
(SEAM-20-02.0-XXX-06-1-A-GP SHOWN)  
(SAME AS FIG 1, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

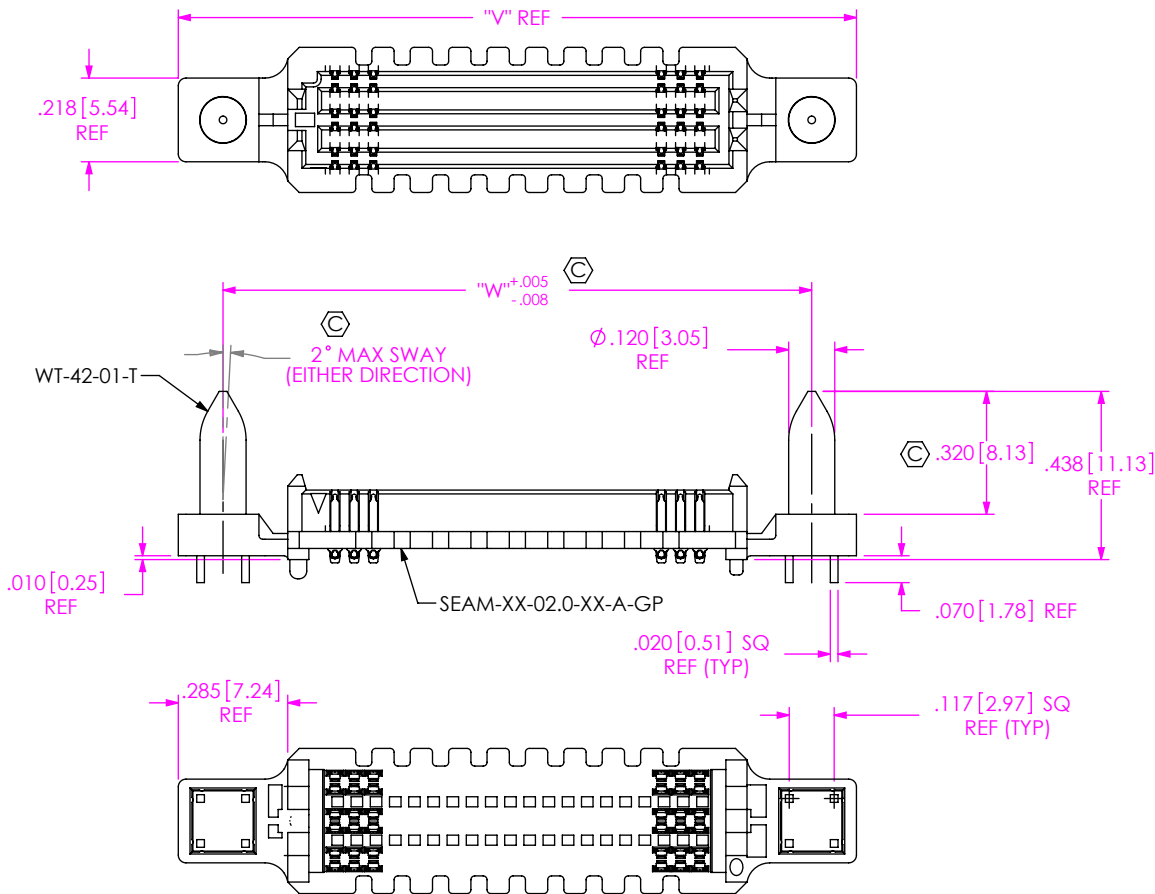


TABLE 9		
POSITIONS	"V"	"W"
-20	1.766 [44.86]	1.533 [38.94]
-30	2.266 [57.56]	2.033 [51.64]
-40	2.766 [70.26]	2.533 [64.34]
-50	3.266 [82.96]	3.033 [77.04]

FIG 10

-EP: EXTENDED GUIDE POST OPTION  
(ONLY AVAILABLE WITH -.02.0 & -.03.5\* LEAD STYLES,  
20, 30, 40, & 50 POSITIONS)  
(SEAM-20-03.5-XXX-06-1-A-EP\* SHOWN)  
(SAME AS FIG 9, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)  
(\* = NOT TOOLED)

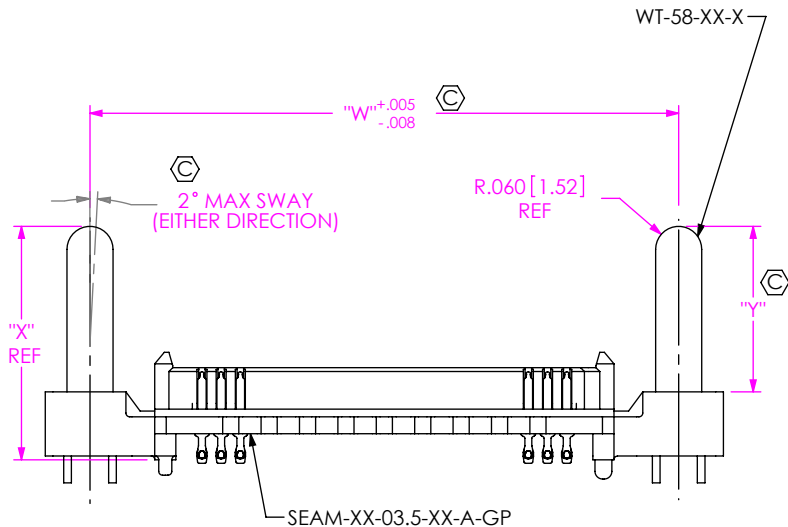


TABLE 10			
LEAD STYLE	"X"	"Y"	GUIDE POST
-.02.0	.549 [13.94]	.372 [9.45]	WT-58-01-T
-.03.5*	.608 [15.44]	.431 [10.95]	WT-58-02-T

\* = NOT TOOLED

TABLE 11		
-EP STACK HEIGHTS		
SEAM LEAD STYLE	SEAF LEAD STYLE	STACK HEIGHT
-.02.0	-.05.0	7MM
-.03.5*	-.06.5	10MM

\* = NOT TOOLED

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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:  
.050 PITCH TERMINAL ARRAY ASSEMBLY  
DWG. NO.  
SEAM-XX-XX.X-XXX-XX-X-A-XX-K-TR  
BY: BRATCHER 08-09-2010 SHEET 6 OF 7

TABLE 12

LEAD STYLE -02.0, -03.0, -03.5, -05.5

ROW	K-DOT	"R"	"S"								"T"
			10 POS	15 POS	19 POS	20 POS	25 POS	30 POS	40 POS	50 POS	
-04	K-DOT-.236-.343-.005	.236 [5.99]	.230 [5.84]	.355 [9.02]	.455 [11.56]	.480 [12.19]	.605 [15.37]	.730 [18.54]	.980 [24.89]	1.230 [31.24]	.021 [0.53]
-05, -06	K-DOT-.236-.343-.005	.236 [5.99]	.230 [5.84]	.355 [9.02]	.455 [11.56]	.480 [12.19]	.605 [15.37]	.730 [18.54]	.980 [24.89]	1.230 [31.24]	.071 [1.80]
-08	K-DOT-.325-.450-.005	.325 [8.26]	.186 [4.71]	.311 [7.90]	.411 [10.43]	.436 [11.06]	.561 [14.24]	.686 [17.41]	.936 [23.76]	1.186 [30.11]	.076 [1.93]
-10	K-DOT-.404-.500-.005	.404 [10.26]	.146 [3.71]	.271 [6.88]	.371 [9.42]	.396 [10.06]	.521 [13.23]	.646 [16.41]	.896 [22.76]	1.146 [29.11]	.087 [2.21]
-14	K-DOT-.404-.500-.005	.404 [10.26]	.146 [3.71]	.271 [6.88]	.371 [9.42]	.396 [10.06]	.521 [13.23]	.646 [16.41]	.896 [22.76]	1.146 [29.11]	.187 [4.75]

TABLE 13

LEAD STYLE -06.5, -07.0, -09.0, -11.0, -13.0

ROW	K-DOT	"R"	"S"								"T"
			10 POS	15 POS	19 POS	20 POS	25 POS	30 POS	40 POS	50 POS	
-04	K-DOT-.256-.375-.005	.256 [6.50]	.220 [5.59]	.345 [8.76]	.445 [11.30]	.470 [11.94]	.595 [15.11]	.720 [18.29]	.970 [24.64]	1.220 [30.99]	.011 [0.28]
-05, -06	K-DOT-.325-.450-.005	.325 [8.26]	.186 [4.71]	.311 [7.89]	.411 [10.43]	.436 [11.06]	.561 [14.24]	.686 [17.41]	.936 [23.76]	1.186 [30.11]	.027 [0.69]
-08	K-DOT-.404-.500-.005	.404 [10.26]	.146 [3.71]	.271 [6.88]	.371 [9.42]	.396 [10.06]	.521 [13.23]	.646 [16.41]	.896 [22.76]	1.146 [29.11]	.037 [0.94]
-10	K-DOT-.460-.550-.005	.460 [11.68]	.119 [3.01]	.244 [6.18]	.344 [8.72]	.369 [9.36]	.494 [12.53]	.619 [15.71]	.869 [22.06]	1.119 [28.41]	.059 [1.50]

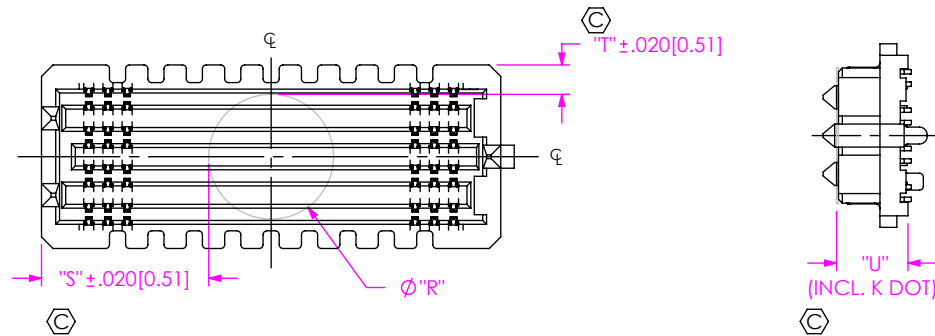


FIG 11  
 -K: K DOT  
 (SEAM-20-02.0-XXX-08-1-A-K SHOWN)  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

TABLE 14

LEAD STYLE	"U"
-02.0	.186 [4.72]
-03.0	.225 [5.72]
-03.5	.245 [6.22]
-05.5	.324 [8.23]
-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)

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**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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## DESCRIPTION:

.050 PITCH TERMINAL ARRAY ASSEMBLY

## DWG. NO.

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

BY: BRATCHER 08-09-2010 SHEET 7 OF 7

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