

REVISION BY

PATENT NUMBER
7172438

DESIGNED & DIMENSIONED
IN INCHES[MILLIMETERS]

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

DO NOT
SCALE FROM
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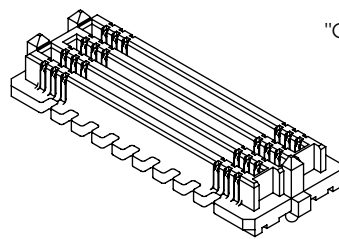
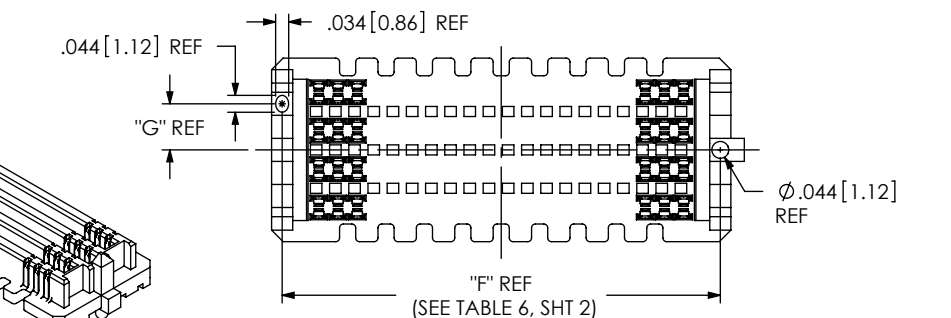
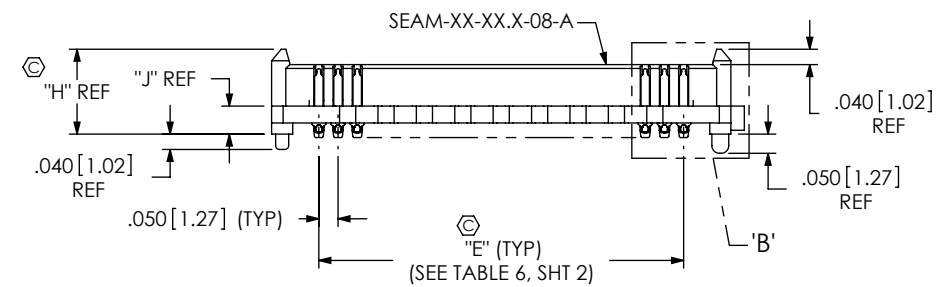
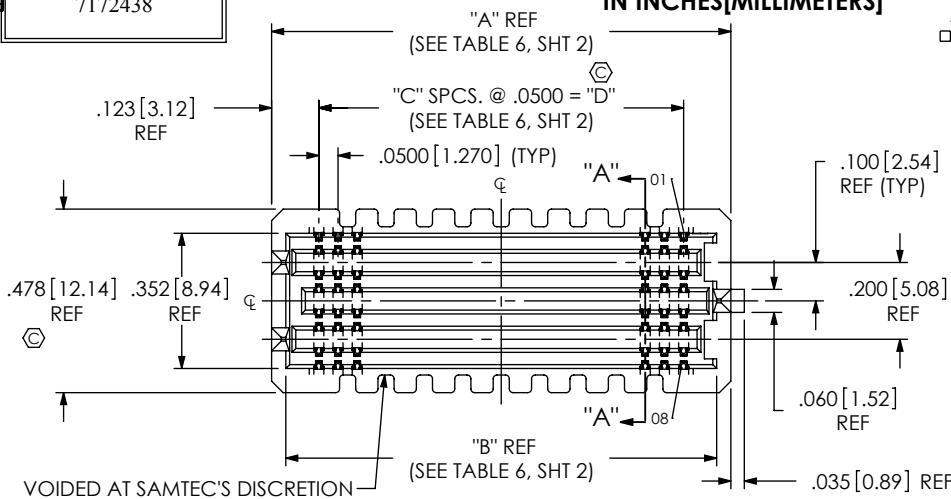


FIG 1
-08: 8 ROW
(SEAM-30-02.0-XX-08-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

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

LEAD STYLE
 -02.0 (SEE TABLE 1)
 -03.0 (SEE TABLE 1)
 -03.5 (SEE TABLE 1)
 ***-05.5 (SEE TABLE 1)
 ****-06.5 (SEE TABLE 8, SHT 3)
 (SEE NOTE 14)
 -07.0 (SEE TABLE 8, SHT 3)
 -09.0 (SEE TABLE 8, SHT 3)
 -11.0 (SEE TABLE 8, SHT 3)
 *-13.0 (SEE TABLE 8, SHT 3)

PLATING SPECIFICATION
 -L: 10µ" LIGHT GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -(LEAD STYLE -02.0 THRU-05.5: USE NEW-SUB-T-1M36-XX-X-L-X)
 -(LEAD STYLE -06.5 THRU-13.0: USE NEW-SUB-T-1M38-XX-X-L-X)
 -SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -(LEAD STYLE -02.0 THRU-05.5: USE NEW-SUB-T-1M36-XX-X-S-X)
 -(LEAD STYLE -06.5 THRU-13.0: USE NEW-SUB-T-1M38-XX-X-S-X)
 -S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -(LEAD STYLE -02.0 THRU-05.5: USE NEW-SUB-T-1M36-XX-X-S-X)
 -(LEAD STYLE -06.5 THRU-13.0: USE NEW-SUB-T-1M38-XX-X-S-X)

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)

TAPE & REEL (SEE NOTES 8, 9 & 10)
 K DOT (SEE FIG 5, SHT 4) (SEE NOTE 7)
 DOT APPLICATOR-KAPTON TAPE.
 -04 ROW: USE K-DOT-.236-.343-.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. 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 & 12)

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

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

* = 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
 △ = ONLY AVAILABLE WITH -02.0 OR -03.5 LEAD STYLE & 4 ROW
 ** = 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

STYLE	"H"	"J"	BODY CALLOUT	TERMINAL
				SOLDER CHARGE TAIL
-02.0	.221 [5.61]	.073 [1.85]	SEAM-XX-02.0-XX-X	NEW-SUB-T-1M36-02.0-X-X
-03.0	.260 [6.60]	.112 [2.84]	SEAM-XX-03.0-XX-X	NEW-SUB-T-1M36-03.0-X-X
-03.5	.280 [7.11]	.132 [3.35]	SEAM-XX-03.5-XX-X	NEW-SUB-T-1M36-03.5-X-X
-05.5	.359 [9.12]	.211 [5.35]	SEAM-XX-05.5-XX-X	NEW-SUB-T-1M36-05.5-X-X

(SEE SHEET 3 FOR LEAD STYLES -06.5 THRU -13.0)

- 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. K DOT WILL BE SUPPLIED WHETHER OR NOT -K IS SPECIFIED.
 8. TAPE & REEL WILL BE SUPPLIED WHETHER OR NOT -TR IS SPECIFIED.
 9. FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR REEL WILL BE SUPPLIED.
 10. FOR QUANTITIES 50 - 124, NO LEADER OR TRAILER WILL BE SUPPLIED.
 11. ATTACH LABEL "SEAM-0001" TO EACH TAPE & REEL PACKAGE.
 12. SOLDER CHARGE VOLUME IS 0.891 x 10⁻⁴ IN³ REF.
 13. SOLDER CHARGE VOLUME IS 0.891 x 10⁻⁴ IN³ REF.
 14. FOR VITA REQUIREMENTS, -A PIN SHOULD NOT BE ORDERED, 6X19 ONLY.
 15. MAXIMUM ROW TO ROW VARIATION .003[0.08], MEASURED FIRST & LAST POSITIONS ONLY, ALL ROWS.
 16. THESE OPTIONS AVAILABLE AS ASO (APPLICATION SPECIFIC OPTIONS) ONLY. PLEASE CONTACT SAMTEC FOR MORE INFORMATION.

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

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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

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1
 INSULATOR: LCP, COLOR: BLACK
 TERMINAL: COPPER ALLOY

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 7

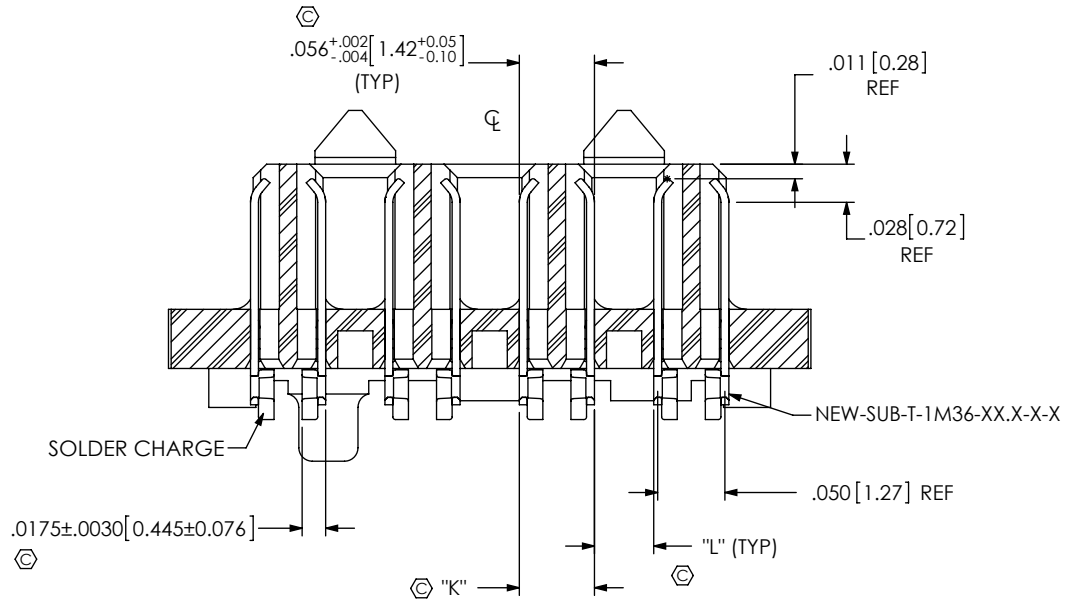
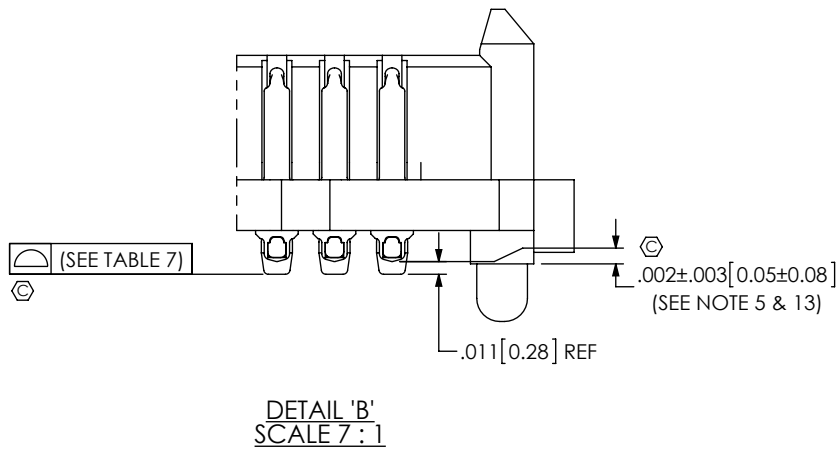


TABLE 3
STACK HEIGHT

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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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-A-XX-K-TR

BY: BRATCHER 08-09-2010 SHEET 2 OF 7

REVISION BY

FIG 2

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

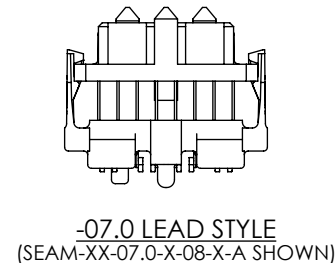
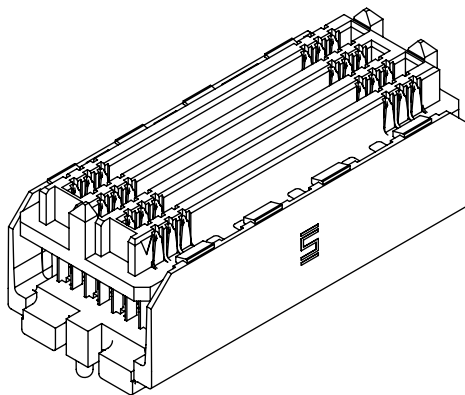
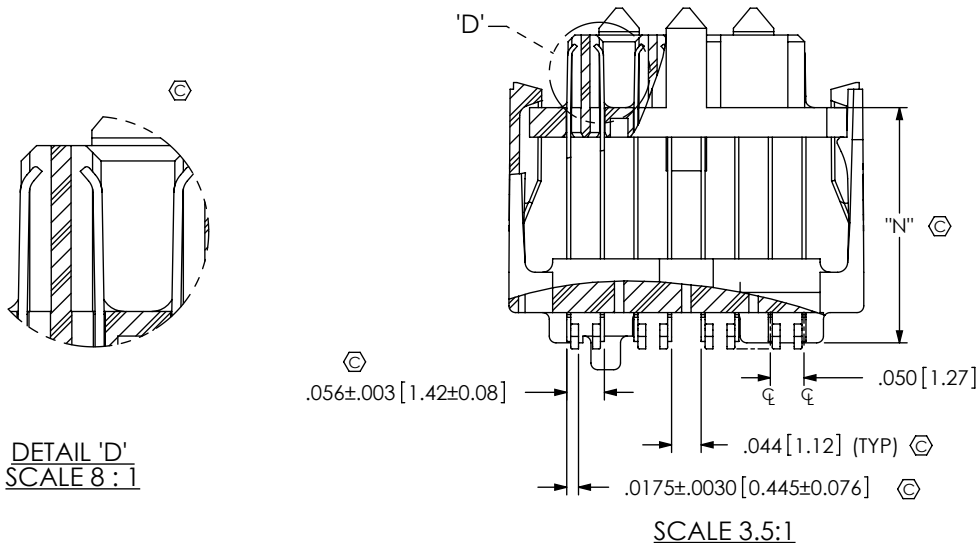
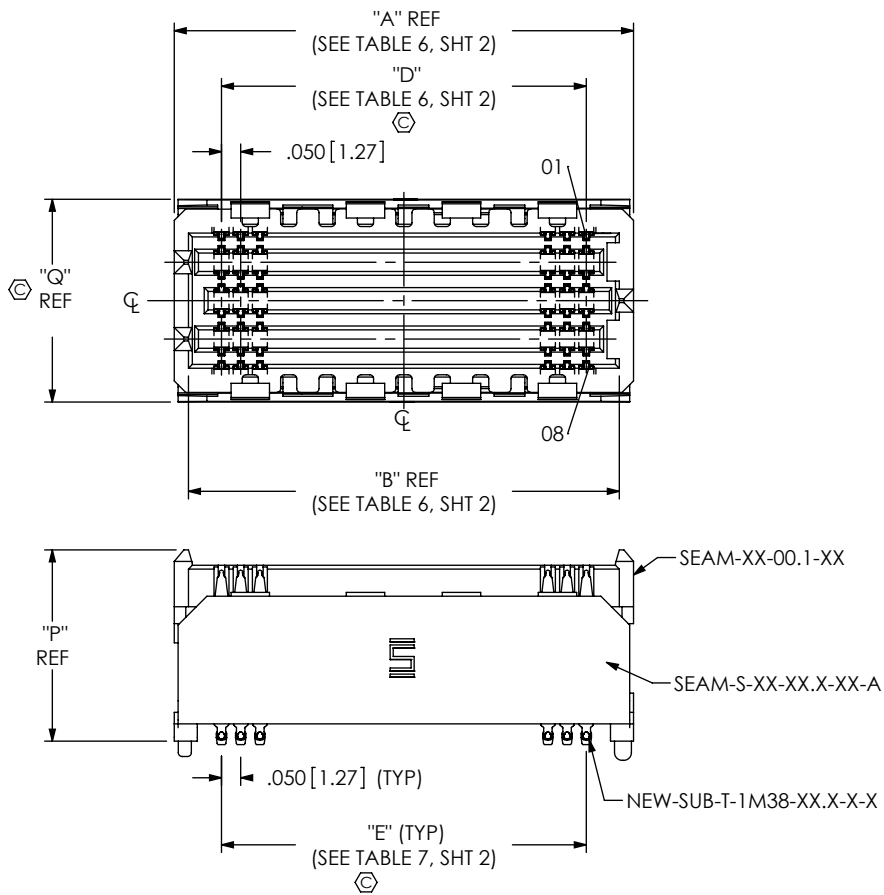


TABLE 8

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

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

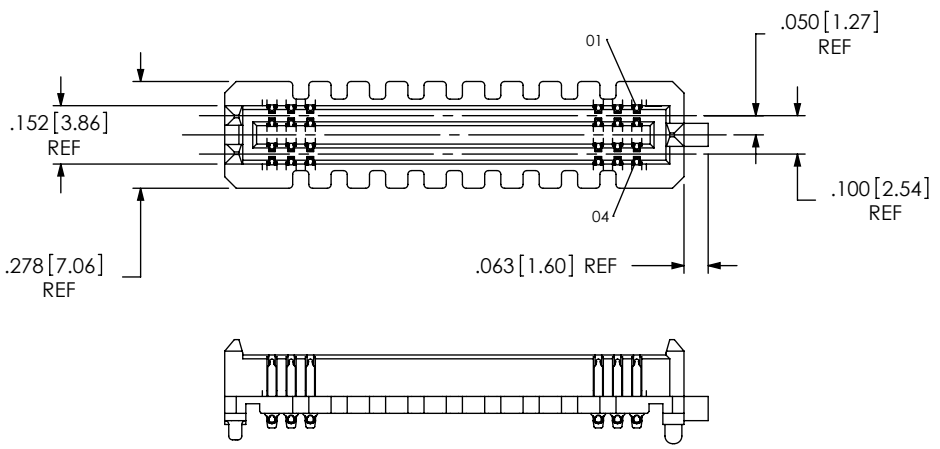


FIG 4
 -10: 10 ROW
 (SEAM-20-02.0-XX-10-1-A SHOWN)
 (SAME AS FIG 1, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

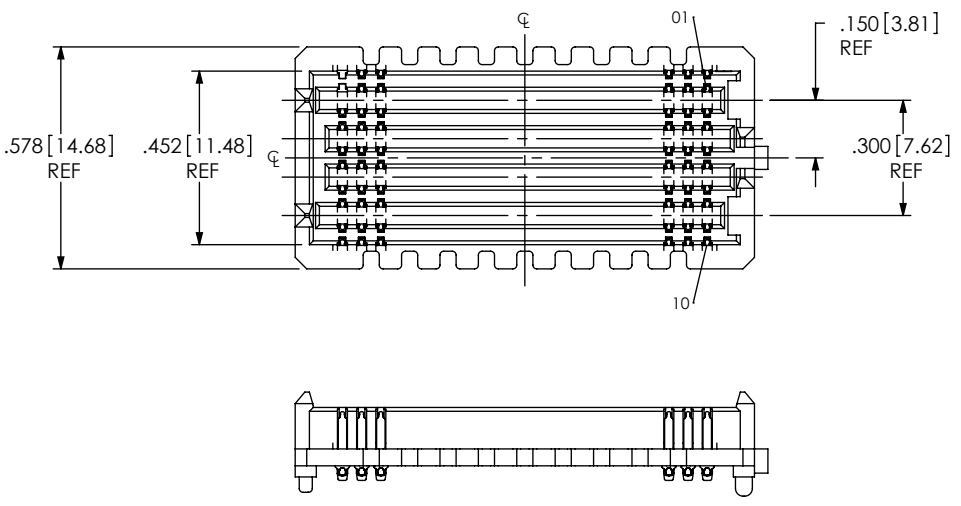


TABLE 9

ROW	Ø "R"	"S"								"T"
		□ 10 POS	⊠ 15 POS	** 19 POS	20 POS	▽ 25 POS	30 POS	40 POS	50 POS	
-04	.236 [6.00]	.230 [5.84]	.355 [9.01]	.455 [11.55]	.480 [12.19]	.605 [15.36]	.730 [18.54]	.980 [24.89]	1.230 [31.24]	.021 [0.53]
-05, -06	.236 [6.00]	.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	.325 [8.25]	.186 [4.71]	.222 [5.65]	.411 [10.43]	.436 [11.06]	.561 [14.24]	.686 [17.41]	.936 [23.76]	1.186 [30.11]	.076 [1.93]
-10	.404 [10.25]	.146 [3.71]	.271 [6.89]	.371 [9.43]	.396 [10.06]	.521 [13.24]	.646 [16.41]	.896 [22.76]	1.146 [29.11]	.087 [2.21]

TABLE 10

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)

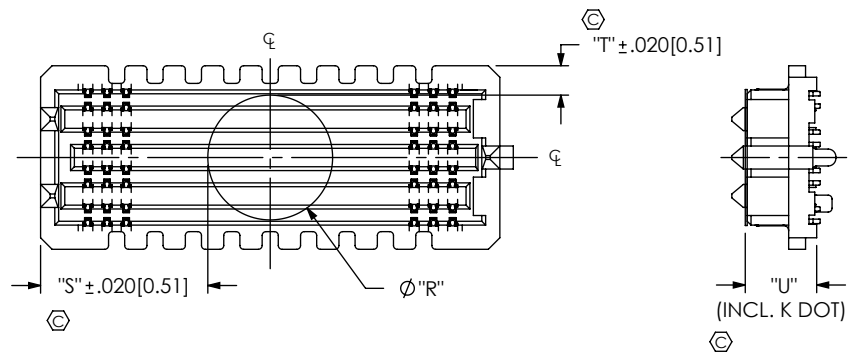


FIG 5
 -K: K DOT
 (SEAM-20-02.0-XX-08-1-A-K SHOWN)
 (SAME AS FIG 1, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

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

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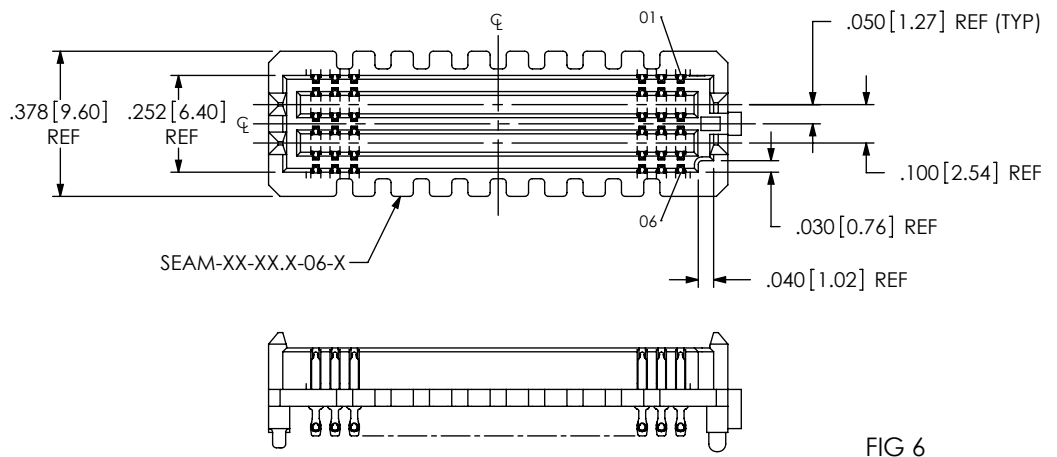


FIG 6
 -06: 6 ROWS
 (SEAM-20-03.0-XX-06-1-A SHOWN)
 (SAME AS FIG 1, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

FIG 8
 -19: 19 POSITIONS
 (SEAM-19-05.5-XX-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)
 (SEE NOTE 12)

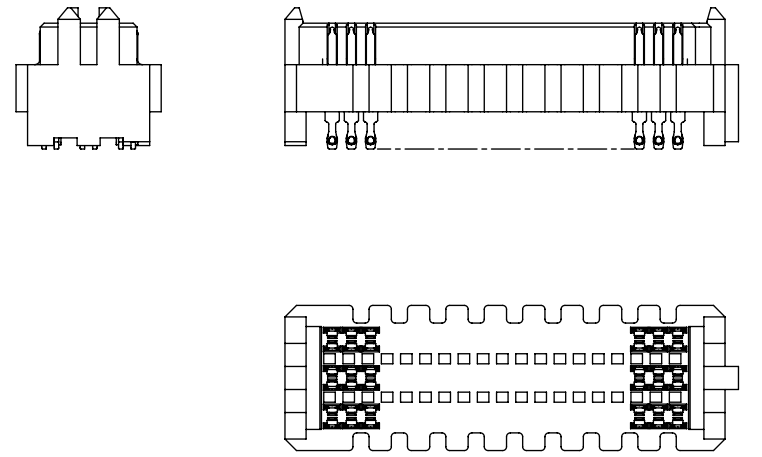
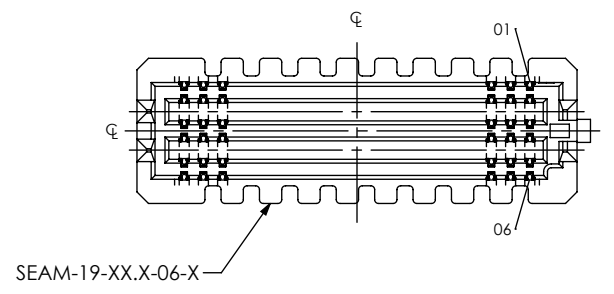


FIG 7
 -05: 5 ROWS
 (SEAM-20-03.5-XX-05-1-A SHOWN)
 (SAME AS FIG 6, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)
 (SEE NOTE 4)

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 e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
 .050 PITCH TERMINAL ARRAY ASSEMBLY

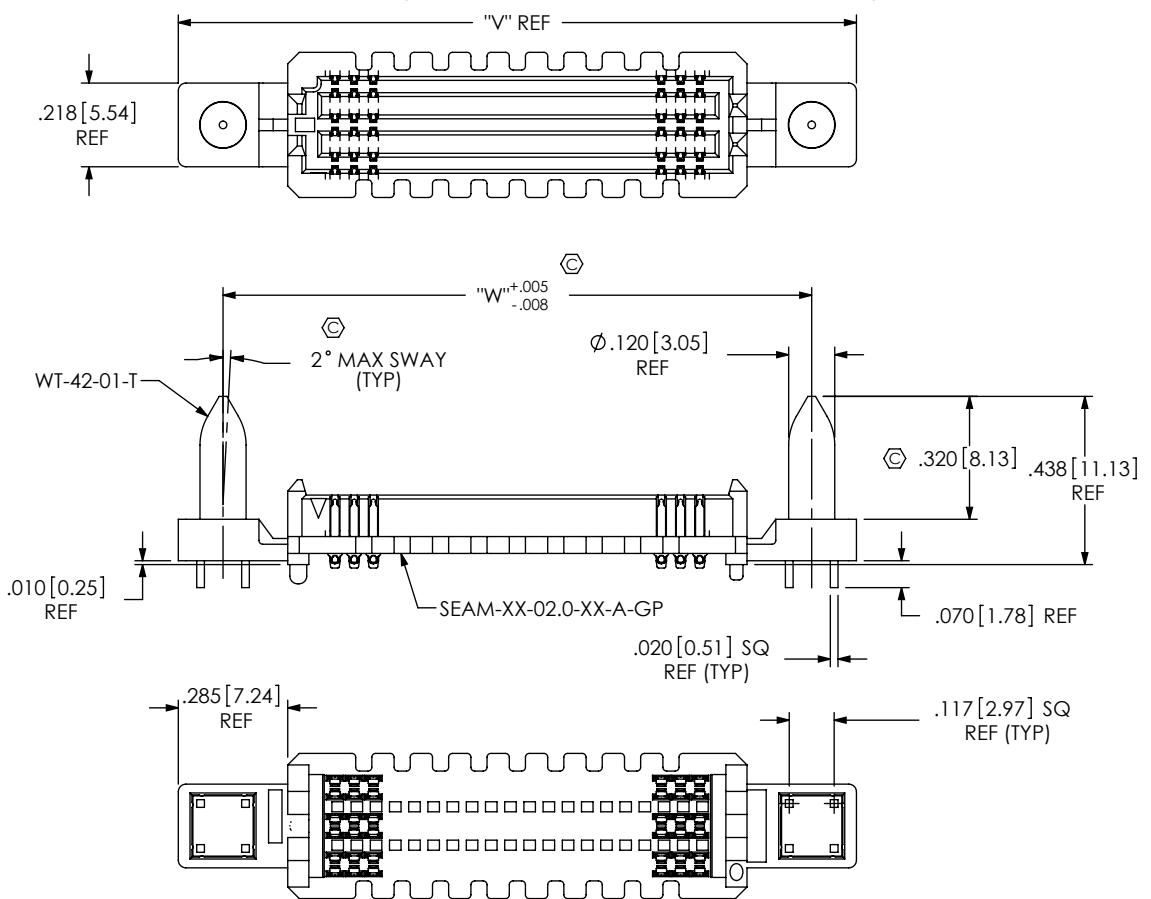
DWG. NO.
SEAM-XX-XX.X-XX-XX-X-A-XX-K-TR

BY: BRATCHER 08-09-2010 SHEET 5 OF 7

REVISION BY

FIG 9

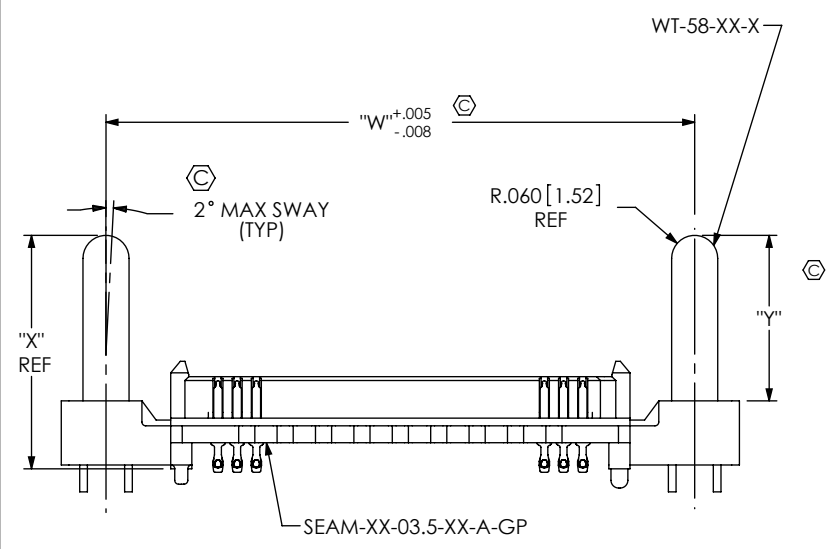
-GP: GUIDE POST OPTION
 (ONLY AVAILABLE WITH -.02.0 LEAD STYLE, 20, 30, 40, & 50 POSITIONS)
 (MATES WITH SEAF RIGHT ANGLE ONLY)
 (SEAM-20-02.0-XX-06-1-A-GP SHOWN)
 (SAME AS FIG 1, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



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)
 (SEAM-20-03.5-XX-06-1-A-EP SHOWN)
 (SAME AS FIG 9, EXCEPT AS SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



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

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

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