

REVISION CU

DO NOT SCALE FROM THIS PRINT

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED TOLERANCES ARE:		ANGLES ± 2°	TITLE: HIGH TEMP 2MM SMT. BOARD STACKING TERMINAL STRIP ASM	DWG NO: TW-XX-XX-XXX-Y-XXX-SM-XXX-XX-Y-XX
ONE PLACE DECIMALS ± .1 [2.5mm]	THREE PLACE DECIMALS ± .005 [0.13mm]			
TWO PLACE DECIMALS ± .00 [0.25mm]	FOUR PLACE DECIMALS ± .0020 [0.05mm]			SHEET 1 OF 3

TABLE 1

LEAD STYLE	TERMINAL	MAX "A" ("B" IS .000 [.00] MIN)	"C" OVERALL PIN LENGTH
-02	T-1S13-02-XXX-2	.309 [7.85]	.377 [9.6]
-03	T-1S13-03-XXX-2	.467 [11.86]	.535 [13.6]
-04	T-1S13-06-XXX-2	.487 [12.37]	.555 [14.1]
-06	T-1S13-10-XXX-2	.605 [15.37]	.673 [17.1]
-07	T-1S13-11-XXX-2	.683 [17.35]	.751 [19.1]
-09	T-1S13-13-XXX-2	.388 [9.86]	.456 [11.6]

- NOTES:
- MAX. PIN ROTATION IN BODY: 2°
  - PUSHOUT FORCE SHALL BE 1 lb MIN.
  - ⊙ REPRESENTS A CRITICAL DIMENSION
  - ALL DIMENSIONS IN BRACKETS [ ] TO BE MILLIMETERS.
  - HEIGHT VARIATION BETWEEN ANY TWO PINS SHALL BE .010 MAX
  - TUBE POSITIONS -04 THROUGH -36 ONLY; BULK PACKAGE -02 & -03. TUBE PLUG MUST BE ALIGNED WITH INSULATOR. (SEE DETAIL ON PAGE 2)
  - MOLDED OR STAKED ALIGNMENT PIN AT SAMTEC'S DISCRETION.
  - SPACE OPTION FROM .170 TO .209 REQUIRES AN ADDITIONAL REPRESS.
  - NOTE DELETED.
  - M OPTION AVAILABLE ON -D ROW ONLY. -M OPTION AVAILABLE ON POSITIONS 4-36 ONLY. -P OPTION AVAILABLE ON 4-36 POSITION ONLY.
  - DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION.
  - S-A FOR EXISTING BUSINESS ONLY, NEW DESIGNS WILL BE AN ASP.
  - MAX CUT FLASH: .020 [0.51]
  - ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
  - ATTACH LABEL TO EACH REEL

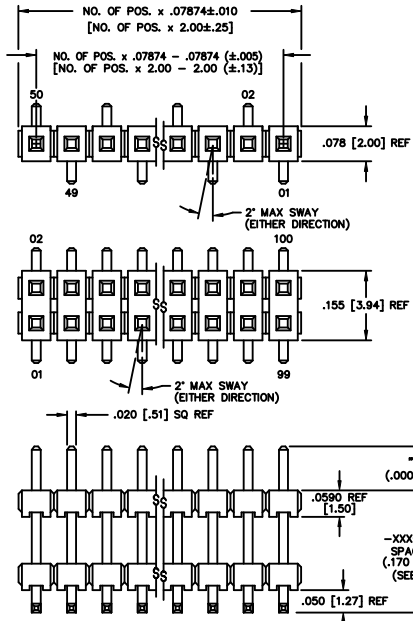


TABLE 2 (SEE NOTE 6)

LEAD STYLE	OPTIONS	TUBE	PLUGS
-02, -04, -07, -09	-D, -D-LC, -D-A	PT-TW001-D-SM	TP-38
-03	-D, -D-LC, -D-A	PT-TW001-D-SM	TP-38
ALL	-S, -S-LC, -S-A	PT-TW002-S-SM	TP-12
-02, -09	-D-A-P, -D-LC-P, -D-P, -D-LC-M, -D-A-M, -D-M	PT-TW001-D-SM	TP-38
-03, -04	-D-A-P, -D-LC-P, -D-P, -D-LC-M, -D-A-M, -D-M	PT-TW001-D-SM	TP-38
-07	-D-A-P, -D-LC-P, -D-P, -D-LC-M, -D-A-M, -D-M	PT-TW001-D-SM	TP-38
-02, -09	-S-LC-P, *S-A-P	PT-TW002-S-SM	TP-12
-03, -04	-S-LC-P, *S-A-P, -S-P	PT-TW002-S-SM	TP-12
-07	-S-LC-P, *S-A-P, -S-P	PT-TW002-S-SM	TP-12
-06	-D-LC	PT-TW001-D-SM	TP-38
-06	NONE, -A, -D	PT-TW001-D-SM	TP-38
-06	-D-A-P, -D-LC-P, -D-P, -D-LC-M, -D-A-M	PT-TW001-D-SM	TP-38
-06	-S-LC-P, -S-A-P, -S-P	PT-TW002-S-SM	TP-12
-06	-D-M	PT-1-24-16-29	TP-38

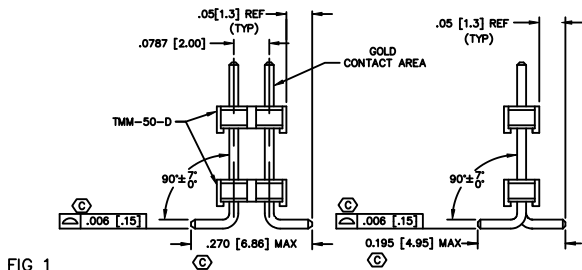
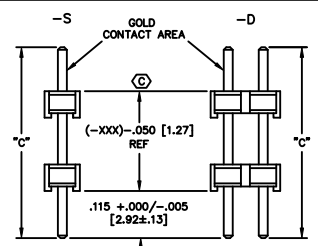


FIG 1

- TW-XX-XX-XXX-X-XXX-SM-XXX-XX-X-XX
- No. OF POSITIONS EXPRESSED IN # OF POS (-02 THRU -36)  
"XX" = No OF POS x .07874 [2.00]
- LEAD STYLE (SEE TABLE 1)
- PLATING
- G: 20μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL (USE T-1S13-XX-G-2)
  - T: MATTE TIN CONTACT AND TAIL (USE T-1S13-XX-T-2)
  - S: 30μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-S-2)
  - E: 50μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL (USE T-1S13-XX-E-2)
  - L: 10μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-L-2)
  - F: 3μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-F-2)
  - P: 2μ"- 5μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-P-2)
  - TL: TIN/LEAD (90%/10 +/-5%) CONTACT AND TAIL (USE T-1S13-XX-TL-2)
  - STL: 30μ" GOLD IN CONTACT AREA, TIN/LEAD (90%/10 +/-5%) TAIL (USE T-1S13-XX-STL-2)
  - LTL: 10μ" GOLD IN CONTACT AREA, (90%/10 +/-5%) TAIL (USE T-1S13-XX-LTL-2)
  - H: 30μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL (USE T-1S13-XX-H-2)
  - SM: 30μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-S-2)
  - TM: MATTE TIN CONTACT AND TAIL (USE T-1S13-XX-T-2)
  - LM: 10μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-L-2)
  - FM: 3μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL (USE T-1S13-XX-F-2)
- ROW OPTION
- S: SINGLE ROW (USE TMM-50-S)
  - D: DOUBLE ROW (USE TMM-50-D)
- PACKAGING
- BLANK: TUBES (SEE NOTE 6)
  - TR: TAPE & REEL (SEE NOTE 14 & 15)
  - (-07 LEAD STYLE NOT AVAILABLE IN T & R) (SEE SHEET 3 FOR -S-TR OPTION ORIENTATION VIEW)
  - (.475 MAX "A" WHEN COMBINED WITH -P OPTION)
  - FR: FULL REEL QTY TAPE & REEL (SEE NOTE 14 & 15)
  - (-07 LEAD STYLE NOT AVAILABLE IN T & R) (SEE SHEET 3 FOR -S-TR OPTION ORIENTATION VIEW)
  - (.475 MAX "A" WHEN COMBINED WITH -P OPTION)
- PICK & PLACE OPTION
- P: PICK & PLACE PAD (SEE NOTE 10)
  - (-D ROW: USE PPP-10)
  - (-S ROW: USE PPP-11)
  - NOTE: "B" = .075 [1.91] MIN FOR THIS OPTION (SEE FIG 6)
  - M: PICK & PLACE PAD (SEE NOTE 10)
  - (-D ROW: USE PPP-10)
  - NOTE: "B" MUST BE .075 OR GREATER FOR THIS OPTION. (SEE FIG 5)
- OPTION 1
- LC: LOCKING CLIP (SEE FIG 2, SHEET 2) (SEE NOTE 11)
  - (-D ROW: USE 2TS-XX-D)
  - (-S ROW: USE 2TS-XX-SV)
  - (.190 MIN BOARD SPACE)
  - \*-A: MOLDED ALIGNMENT PIN (SEE FIG 3, SHEET 2 & NOTE 7) (AVAILABLE IN 2-36 POSITIONS) (2 POSITIONS WILL ONLY HAVE ONE ALIGNMENT PIN) (-D ROW: USE 2TS-XX-DV-A) (\*-S ROW: USE 2TS-XX-SV-A) (\*-SEE NOTE 12) (BOTTOM BODY ONLY, USE TMM-50-X FOR TOP)
  - STAKED ALIGNMENT PIN (SEE FIG 4, SHEET 2 & NOTE 7) (-D ROW ONLY: USE TMM-50-D, 4 POS MIN) (.190 MIN BOARD SPACE FOR BOTH)
- OPTION 2
- XXX: POLARIZED POSITION (SPECIFY OMITTED PIN)
- SURFACE MOUNT
- SPACE OPTION (SEE NOTE 8)  
XXX="A" (SEE TABLE 1, .170 [4.32] MIN)

PATENT NUMBERS  
5713755 / 5961339



IN-PROCESS

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MATERIAL:  
INSULATOR: LIQUID CRYSTAL POLYMER  
COLOR: BLACK  
TERMINALS: PHOSPHOR BRONZE

IN-PROCESS

EXSPROD ASSEMBLY 2MM 16-24

**samtec**

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TW-XX-XX-XXX-Y-XXX-SM-XXX-XX-Y-XX