

REVISION CR

DO NOT SCALE FROM THIS PRINT

UNLESS OTHERWISE NOTED TOLERANCES ARE:

ONE PLACE DECIMALS ±.1 [2.5mm]	THREE PLACE DECIMALS ± .005 [13mm]	ANGLES ± 2°
TWO PLACE DECIMALS ±.01 [25mm]	FOUR PLACE DECIMALS ± .0002 [65mm]	

TITLE: HIGH TEMP 2MM SMT BOARD STACKING TERMINAL STRIP ASM  
 DWG NO: TW-XX-XX-XXX-X-XXX-SM-XXX-XX  
 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; LAYER 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]

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
- 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)

- 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)
  - 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)
  - TR: TAPE AND REEL PACKAGING  
 -XXX: POLARIZED POSITION (SPECIFY OMITTED PIN)  
 (SEE SHEET 3 FOR -S-TR OPTION ORIENTATION VIEW)  
 (.475 MAX "A" WHEN COMBINED WITH -P OPTION)

OPTION 2  
 -XXX: POLARIZED POSITION (SPECIFY OMITTED PIN)

SURFACE MOUNT

SPACE OPTION

(SEE NOTE 8)  
 XXX="A" (SEE TABLE 1, .170 [4.32] MIN)

(\* = SEE NOTE 12)

ROW OPTION  
 -S: SINGLE ROW (USE TMM-50-S)  
 -D: DOUBLE ROW (USE TMM-50-D)

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, -D-M	PT-TW001-D-SM	TP-38
-06	-S-LC-P, -S-A-P, -S-P	PT-TW002-S-SM	TP-12

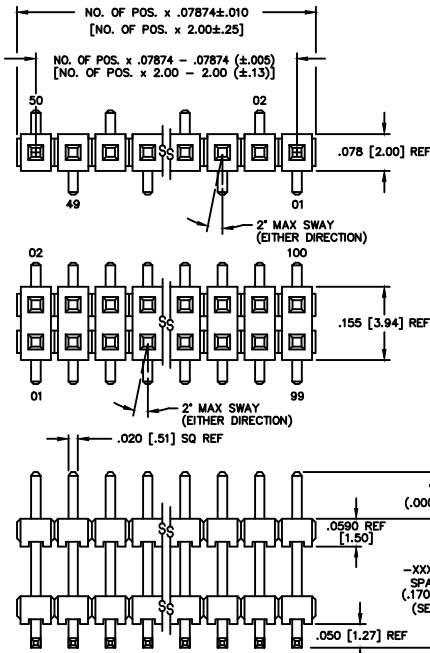
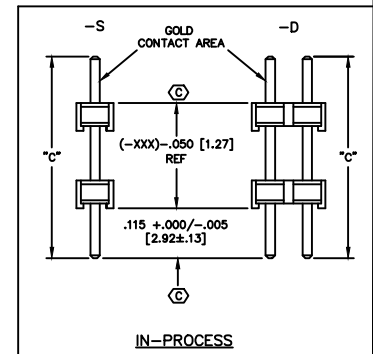


FIG 1

PATENT NUMBERS  
 5713755 / 5961339



IN-PROCESS

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

EXP. PROD. ASSEMBLY 2MM TW-SM

**samtec**

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 BRYANT 3-8-93

TW-XX-XX-XXX-X-XXX-SM-XXX-XX