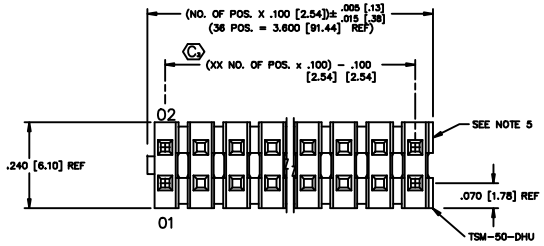
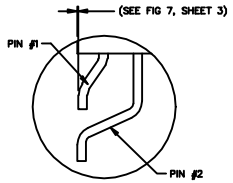
REVISION CA

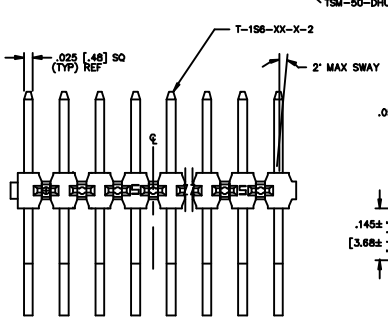
DO NOT SCALE THIS DRAWING

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES	TOLERANCES ARE		TITLE:	DWG NO:
ONE PLACE DECIMALS ± .1 [.3] TWO PLACE DECIMALS ± .01 [.3]	THREE PLACE DECIMALS ± .005 [.13] FOUR PLACE DECIMALS ± .0020 [.051]	ANGLES ± 2°	TERMINAL SRTIP DOUBLE SURFACE MOUNT	TSM-1XX-XX-XXX-XX-XX-XXX-XX SHEET 1 OF 3





DETAIL A



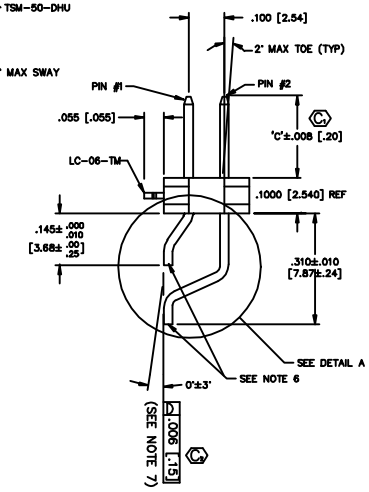


FIG. 1

−LC: LOCKING CLIP OPTION

CLIPS N/A WITH −A OPTION.

TSM−1XX−XX−XXX−XX−XX−XXX−XX

NO. OF POSITIONS
−02 THRU −36

LEAD STYLE
(SEE TABLE 1)

PLATING SPEC.
−T: MATTE TIN, CONTACT AND TAIL
−S: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
−L: LIGHT SELECTIVE, 10 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
−F: FLASH SELECTIVE, 3 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
−H: HEAVY GOLD, 30 Au 50 Ni MIN ON CONTACT, 3 Au / 50 Ni MIN ON TAIL
−TL: TIN/LEAD (90/10+/−5%) CONTACT AND TAIL
−STL: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, TIN/LEAD (90/10+/−5%) TAIL
−SM: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
−LM: LIGHT SELECTIVE, 10 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
−FM: FLASH SELECTIVE, 3 Au / 50 Ni ON CONTACT, MATTE TIN TAIL
−TM: MATTE TIN CONTACT AND TAIL
−SS: STRIPED SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
(SEE NOTE 14)

ROW OPTION
−DH: DOUBLE HORIZONTAL
(USE TSM−50−DHU)
−MT: MIXED TECHNOLOGY (SEE FIG. 4 & TABLE 1)
(NOT AVAILABLE WITH −LC, −SL, −TR OR −A OPTIONS)

OPTION #1
−LC: LOCKING CLIP (USE LC−06−TM − SEE FIG. 1) (SEE NOTE 13)
(03−36 POS USE 2 PER STRIP, 02 POS USE 1 PER STRIP)
(USE TSM−XX−DHU)
(NOT AVAILABLE WITH −A OR −SL OPTIONS)
−A: ALIGNMENT PIN (SEE FIG. 2, SHT. 2)
(STAKED: 4 POS MIN) (MOLDED: 2 POS MIN)
(NOT AVAILABLE WITH −LC OR −SL OPTIONS)
LEAVE BLANK FOR NO HOLD DOWN OPTION.
−SL: SOLDER LOCK (SEE FIG. 6, SHT. 2)
(2 POSITION MINIMUM)
(NOT AVAILABLE WITH −LC OR −A OPTIONS)

OPTION #2
POLARIZED POSITION: SPECIFIY OMITTED PIN

OPTION #3
−P: PICK & PLACE PAD, SEE FIG 3
(USE PPP−08)
(AVAILABLE ON POS −05 THRU −36)
(AVAILABLE ON POS −02 THRU −04
WITH −TR OPTION ONLY)
(NOT AVAILABLE WITH −K OPTION)
−TR: TAPE & REEL (29 POS MAX)
(AVAILABLE FOR −DH ONLY)
−K: POLYIMIDE FILM (SEE FIG. 5, SHT. 2)
(NOT AVAILABLE WITH −P OPTION)
(USE K−500−300)
(AVAILABLE ON POS −04 THRU −36)
(AVAILABLE ON POS −02 THRU −03
WITH −TR OPTION ONLY)

NOTES:
1. Ⓒ REPRESENTS A CRITICAL DIMENSION.
2. DELETED
3. DELETED
4. DELETED
5. .005 [.13] MAX CUT FLASH.
6. .002 [.51] MAX BURR. MUST BE AWAY FROM SMT BOARD SIDE.
7. DELETED
8. CUT TO POSITION BODIES TO BE MULTI−CUT OR ROTO−CUT ONLY, NEVER AIR CUT.
9. TUBE POSITIONS 5−36, BULK PACKAGE POSITIONS 2−4.
10. 3 LBS. MIN PUSHOUT FORCE.
11. −04 LEAD STYLE DOES NOT MATE WITH SSM−DH.
12. ORIENTATION OF PART IN TAPE AND REEL TO BE CONTROLLED BY POCKET DESIGN.
13. 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.
14. −SS OPTION ONLY AVAILABLE IN LEAD STYLE −01 AND CAN ONLY MATE WITH SSW, SSQ, SSM, ESW, ESQ AND BCS.

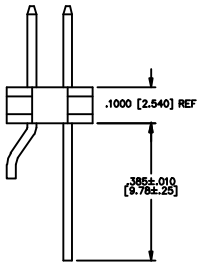
TABLE 1

ROW OPTION	LEAD STYLE	BOTTOM ROW PIN #1	TOP ROW PIN #2	'C'
−DH	−01	T−1S6−09−X−2	T−1S6−20−X−2	.230 [5.84]
−DH	−02	T−1S6−09−X−2	T−1S6−20−X−2	.320 [8.13]
−DH	−03	T−1S6−09−X−2	T−1S6−20−X−2	.420 [10.67]
−DH	−04 (SEE NOTE 11)	T−1S6−09−X−2	T−1S6−20−X−2	.120 [3.05]
−MT	−01	T−1S6−08−X−2	T−1S6−20−X−2	.230 [5.84]
−MT	−02	T−1S6−15−X−2	T−1S6−20−X−2	.320 [8.13]
−MT	−03	T−1S6−09−X−2	T−1S6−20−X−2	.420 [10.67]

TABLE 2

No OF POS	S/S BOW
02 − 10	.0030 [.080]
11 − 20	.0050 [.127]
21 − 30	.0070 [.178]
31 − 36	.0080 [.203]

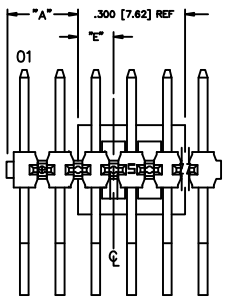
IN−PROCESS 2



DIFFERENT AS SHOWN.
OTHERWISE SAME AS FIG. 1.

FOR EVEN: $"A" = \left[\frac{(\text{NO. OF POS.} \times .100\ [2.54]) - .300\ [7.62]}{2}\right] + .050\ [1.27]$

FOR ODD: $"A" = \frac{(\text{NO. OF POS.} \times .100\ [2.54]) - .300\ [7.62]}{2}$



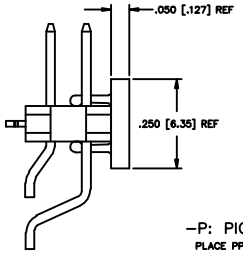


TABLE 3

POS.	"E"
ODD	.150 [3.81]
EVEN	.100 [2.54]

FIG. 3

−P: PICK & PLACE PAD

PLACE PPP−08 ON ℄ AS SHOWN

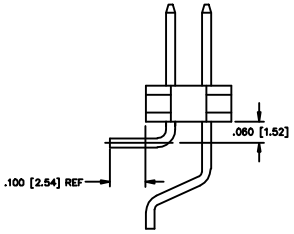
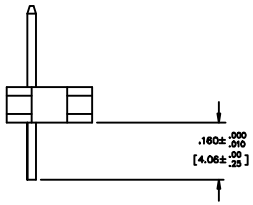


FIG. 4

−MT: MIXED TECHNOLOGY

DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG. 1
(SEE NOTE 7)

IN−PROCESS 1



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

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EXISPROD\ASSEMBLY\100 TSMDH

MADE BY: BRATCHER 7−27−95

TSM-1XX-XX-XXX-XX-XX-XXX-XX SHEET 1 OF 3