

DO NOT  
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| TABLE 2            |             |
|--------------------|-------------|
| BODY SPECIFICATION |             |
| ROW/OPTION         | USE BODY    |
| -S, -S-NA/-NE      | TSW-50-S    |
| -S-RA/-RE          | TSW-50-S-RA |
| -D, -D-NA/-NE      | RTSW-50-D   |
| -D-RA              | TSW-50-D-RA |
| -T, -T-NA/-NE      | TSW-50-T    |
| -T-RA, -Q-RA       | TSW-50-T-RA |
| -Q                 | TSW-50-T    |

TSW-XXX-XX-XXX-X-XX-XXX

TERMINAL SPACE SPEC.  
(SEE ASSEMBLY INSTRUCTIONS)  
-1=.100[2.54] FILL EVERY POSITION  
-2=.200[5.08] FILL EVERY OTHER POS.  
STARTING W/ 1ST & ENDING  
W/ LAST POS. IN BODY)

BODY LENGTH SPEC.  
EXPRESSED IN # OF POS  
-1: -01 THRU -50 (-S, -D, -T)  
"A" = NO. OF POS. x .100[2.54]  
-2: -02 THRU -25 (-S, -D, -T)  
"A" = NO OF POS. x .200[5.08] - .100[2.54]

TERMINAL SPECIFICATION  
SEE TABLE 1

PLATING SPECIFICATION  
-G: 10µ" GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
-T: MATTE TIN CONTACT AND TAIL  
-S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-H: 30µ" HEAVY GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
-L: 10µ" LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-F: 3µ" FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-E: 50µ" EXTRA HEAVY GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
-TL: TIN/LEAD (90/10 +/-5%) CONTACT AND TAIL  
(AVAILABLE ONLY ON LEAD STYLES -07, -08 & -09)  
-STL: 30µ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10 +/-5%) TAIL  
(AVAILABLE ONLY ON LEAD STYLES -07, -08, -10, -15, -16, -17, -21, -23 & -24  
THROUGH HOLE ONLY)  
-TM: MATTE TIN CONTACT AND TAIL  
-SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-LM: 10µ" LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-FM: 3µ" FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-SS: 30µ" STRIPE SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL (SEE NOTE 13)

OPTION #2  
-POLARIZING SPECIFICATION  
XXX INDICATES POS. TO BE OMITTED (SEE FIG 3)

OPTION #1  
-BLANK= STRAIGHT  
-RA= RIGHT ANGLE (SEE TABLE 3 & 5, FIG 5)  
-RE= EXTENDED RIGHT ANGLE (SEE TABLE 3 & 5, FIG 5)(SINGLE ROW ONLY)  
-NA= RA OPTION WITH STRAIGHT OPTION BODY  
-NE= RE OPTION WITH STRAIGHT OPTION BODY  
-LC= LOCKING CLIP (USE LTC-01 FOR -S ROW AND  
LTC-02 FOR -D ROW)(STYLES 08 THRU 13 & 22 ONLY) (SEE FIG 2)  
(N/A IN -RA OR -RE OPTION AND/OR LESS THAN 4 POSITIONS)  
(N/A IN -T OR -Q)  
-LA= -RA OPTION WITH -LL OPTION (SEE FIG 5)  
-LL= LOCKING LEAD (SEE FIG 4)  
(N/A WITH -RE OR -NE OPTION)  
(N/A IN SINGLE ROW, 1 OR 2 POSITIONS)

ROW SPECIFICATION (SEE TABLE 2)  
-S: SINGLE  
-D: DOUBLE  
-T: TRIPLE  
-Q: TRIPLE ROW, FILL OUTER ROWS ONLY

- NOTES:
- Ⓢ REPRESENTS CRITICAL DIMENSION.
  - MINIMUM TERMINAL PUSHOUT: 3 LBS.
  - MAXIMUM HEIGHT VARIATION: .005 [.13] (R.A. TAIL N/A).
  - ASSEMBLE GOLD PLATE END AS SHOWN.
  - STYLE -26: ROUND END TO APPEAR ON BOTTOM.
  - "C"±<sup>.005[0.13]</sup><sub>.008[0.20]</sub> FOR STYLE -08, OPTION -LA & -RA ONLY.
  - TOW & SWAY SPEC. OF 2° APPLIES TO ALL POSITIONS, POST & TAIL, IN ALL DIRECTIONS.
  - ALL DIMENSIONS TO BE ABOUT CL WITHIN ±.005 [.13].
  - MEASURE FROM THE BEND RADIUS OF THE TERMINALS .
  - TSW-50-D BODY CAN BE USED IF RTSW-50-D IS UNAVAILABLE
  - ORIENTATE PINS TO PREVENT BANDOLIER MARKS FROM SHOWING IN THE POST AREA. (SEE TABLE 7)
  - MAXIMUM CUT FLASH: .020 [.50]
  - SS OPTION ONLY AVAILABLE IN STRAIGHT LEAD STYLES -07, -08 & -09, -RA STYLE -08 ONLY. CAN ONLY MATE WITH SSW, SSQ, SSM, ESW, ESQ AND BCS.

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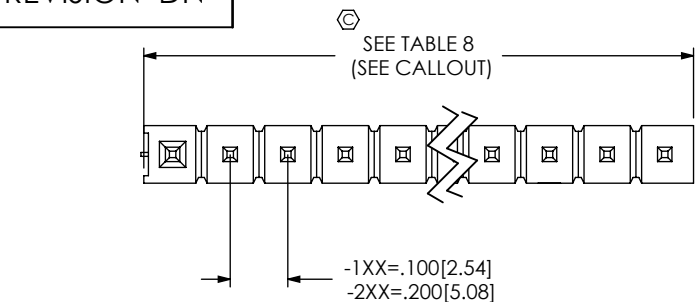
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1  
BODIES: DUPONT PBT, UL 94 VO, COLOR: BLACK  
TERMINALS: PHOS BRONZE

DESCRIPTION:  
.025[0.64] SQ. POST TERMINAL STRIP ASSEMBLY

DWG. NO.  
TSW-XXX-XX-XXX-X-XX-XXX

BY: KOLB 08/24/1988 SHEET 1 OF 6



| TABLE 8           |                               |
|-------------------|-------------------------------|
| ROW SPECIFICATION | OVERALL LENGTH                |
| -Q, -T            | "A" +.010/-.015 [+0.25/-0.38] |
| -S, -D            | "A" +.015/-.015 [+0.38/-0.38] |

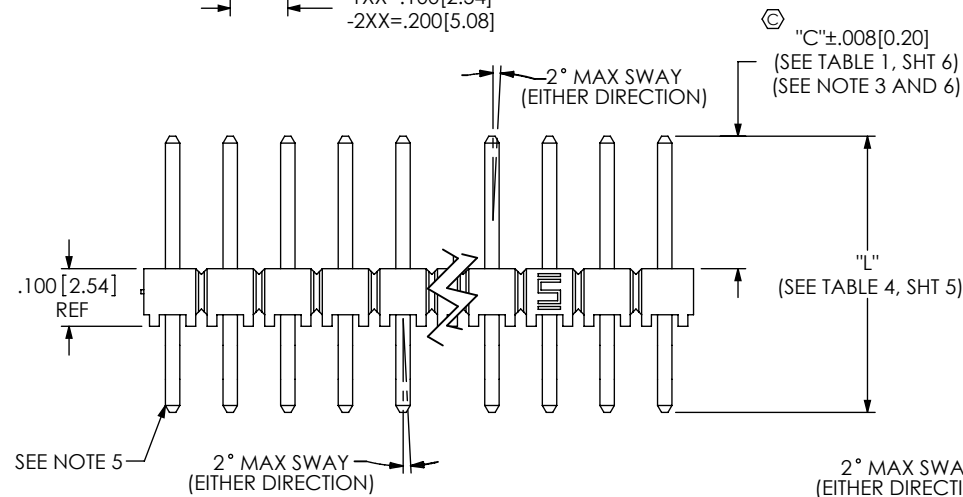
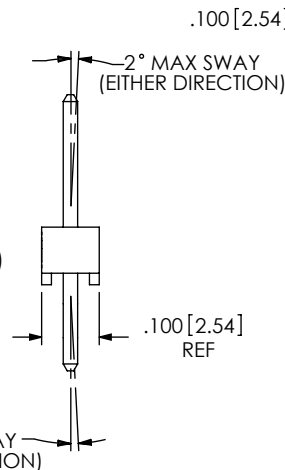
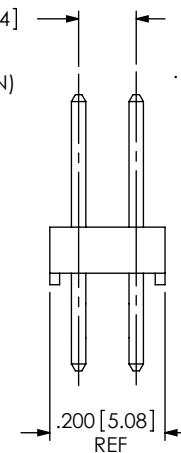


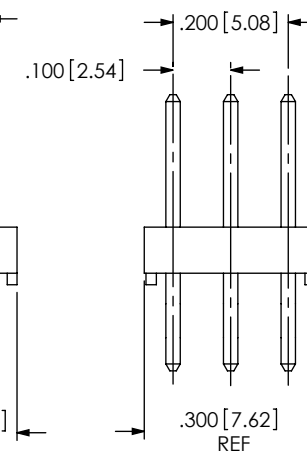
FIG 1  
(TSW-1XX-XX-XX-S SHOWN)



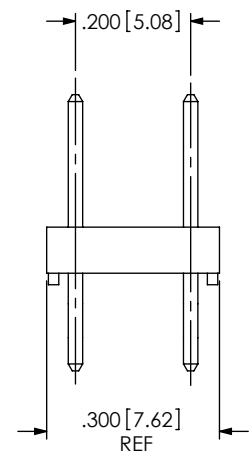
-S



-D



-T



-Q

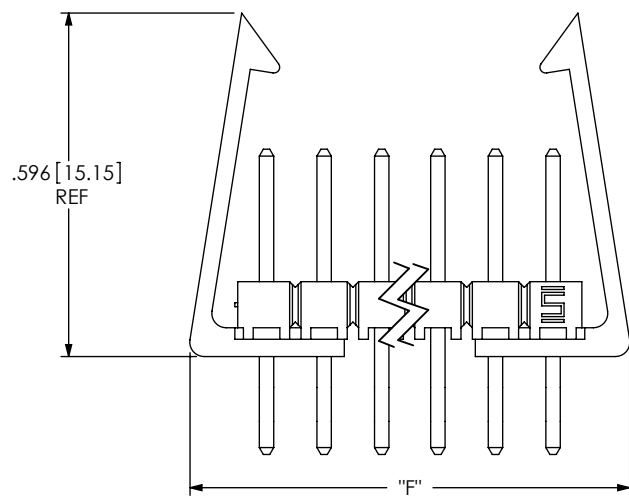
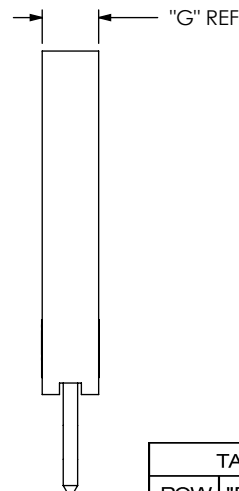


FIG 2  
(TSW-1XX-XX-XX-S-LC SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



| TABLE 6 -LC OPTION |                 |            |
|--------------------|-----------------|------------|
| ROW                | "F" ±.015[0.38] | "G"        |
| -S                 | "A" +.150       | .098[2.49] |
| -D                 | "A" +.210       | .198[5.03] |

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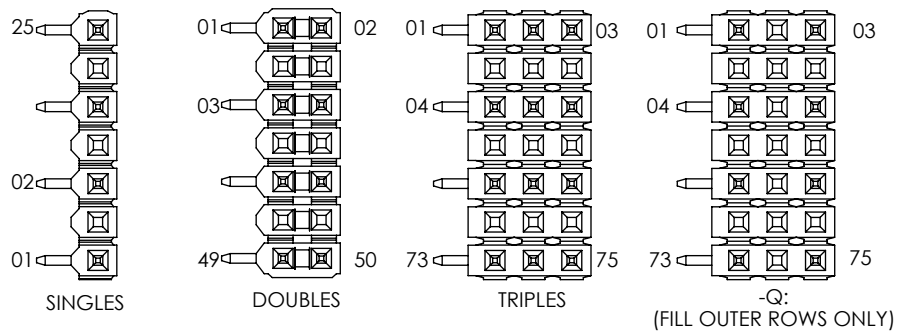
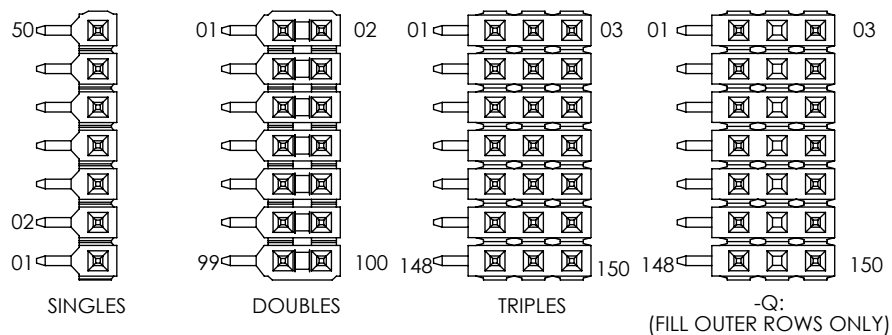
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.025[0.64] SQ. POST TERMINAL STRIP ASSEMBLY

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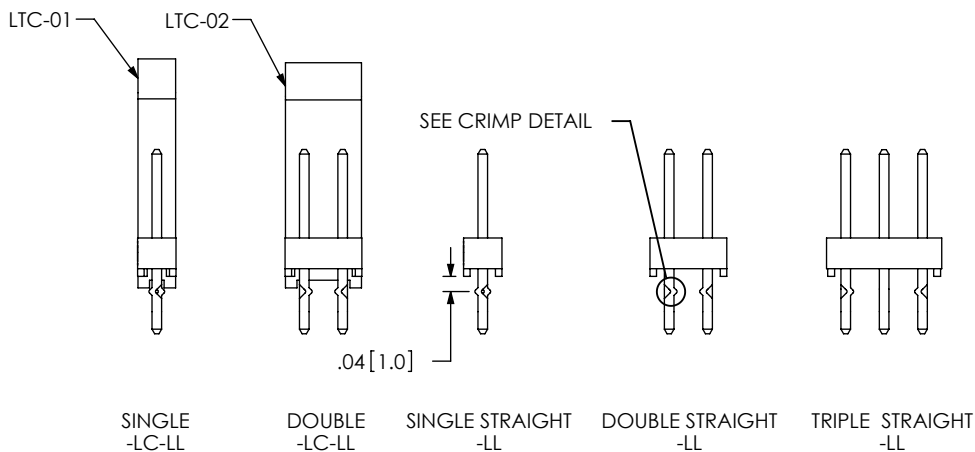
FIG 3

-1: .100[2.54] TERMINAL SPACING  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



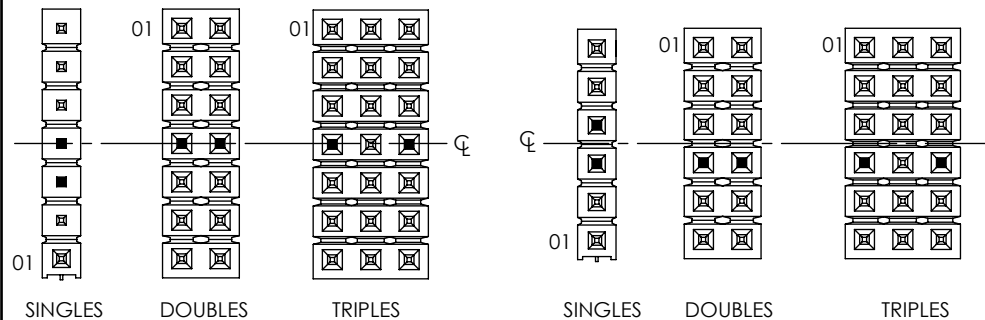
-2: .200[5.08] TERMINAL SPACING

FIG 4  
LOCKING LEAD  
(NOTE: END VIEWS SHOWN)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)



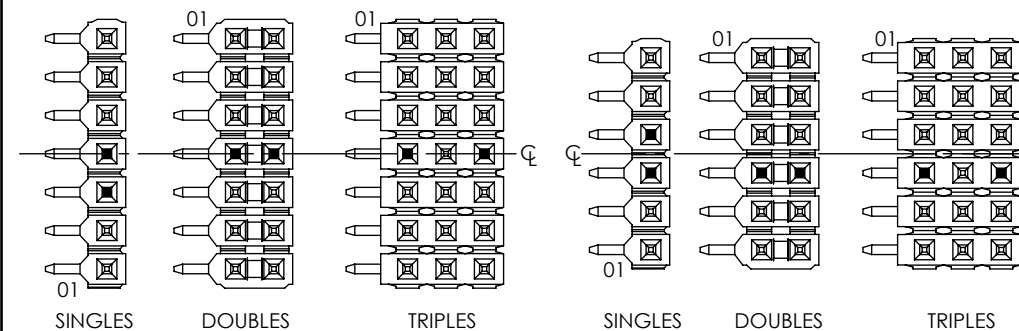
CRIMP DETAIL  
SCALE: 4:1  
(TYP ALL CRIMPS)

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STRAIGHT VERSION  
ODD POSITIONS

STRAIGHT VERSION  
EVEN POSITIONS



RIGHT ANGLE VERSION  
ODD POSITIONS

RIGHT ANGLE VERSION  
EVEN POSITIONS

LOCKING LEAD

■ = CRIMP LOCATION

TWO CENTER MOST PINS TO BE CRIMPED.

ODD POSITIONS, CRIMP CENTER POSITION AND POSITION CLOSEST TO PIN ONE.  
IF CRIMP POSITION IS POLARIZED, MOVE ONE POSITION TOWARDS PIN ONE.

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FIG 5

(RIGHT ANGLE)

(-LA OPTION IS SHOWN ON ALL RIGHT ANGLES  
FOR DIMENSIONAL AND LOCATION PURPOSES.)

(SEE CRIMP DETAIL VIEW, SHT 3)

(SAME AS FIG 1, DIFFERENT AS SHOWN)

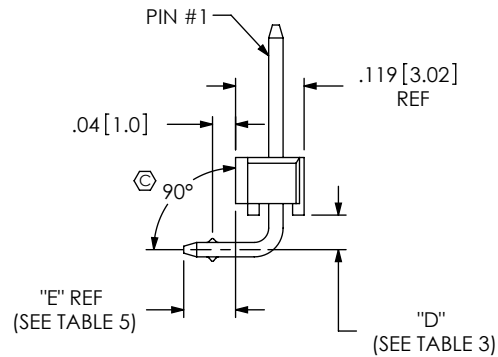
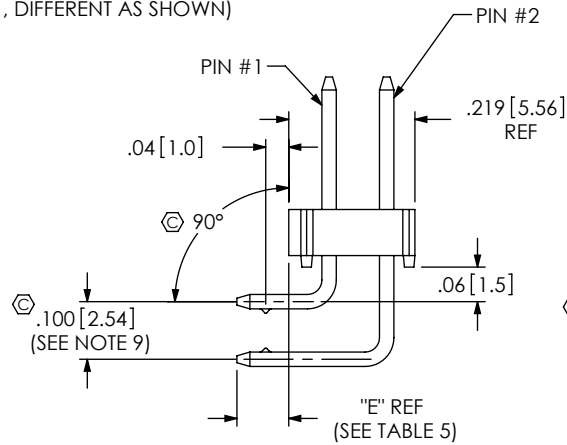
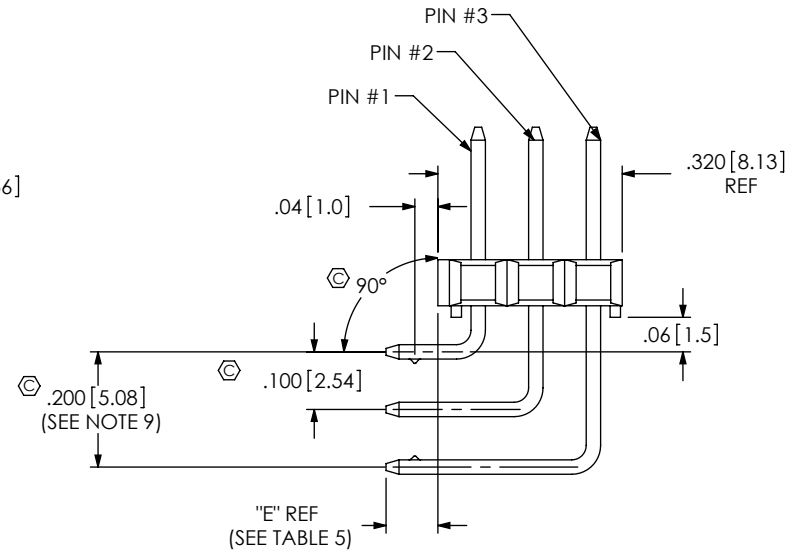
-S-D-T

TABLE 3

| -XX     | "D"      |
|---------|----------|
| -RA/-NA | .06[1.5] |
| -RE/-NE | .16[4.1] |

TABLE 5 "E"

| LEAD STYL | RA SINGLE    | RE SINGLE    | RA DOUBLE    | RA TRIPLE    | NA SINGLE     | NE SINGLE    | NA DOUBLE    | NA TRIPLE    |
|-----------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| 08        | .090 [2.29]  | N/A          | .090 [2.29]  | .090 [2.29]  | .109 [2.77]   | N/A          | .109 [2.77]  | .109 [2.77]  |
| 09        | .290 [7.37]  | .190 [4.83]  | .290 [7.37]  | .290 [7.37]  | .309 [7.85]   | .209 [5.31]  | .309 [7.85]  | .309 [7.85]  |
| 10        | .390 [9.91]  | .290 [7.37]  | .390 [9.91]  | .390 [9.91]  | .409 [10.39]  | .309 [7.85]  | .409 [10.39] | .409 [10.39] |
| 11        | .490 [12.45] | .390 [9.91]  | .490 [12.45] | .490 [12.45] | .509 [12.93]  | .409 [10.39] | .509 [12.93] | .509 [12.93] |
| 12        | .590 [14.99] | .490 [12.45] | .590 [14.99] | .590 [14.99] | .609 [15.47]  | .509 [12.93] | .609 [15.47] | .609 [15.47] |
| 13        | .790 [20.07] | .690 [17.53] | .790 [20.07] | N/A          | .809 [20.55]  | .709 [18.01] | .809 [20.55] | N/A          |
| 16        | .200 [5.08]  | .100 [2.54]  | .200 [5.08]  | .200 [5.08]  | .219 [5.56]   | .119 [3.02]  | .219 [5.56]  | .219 [5.56]  |
| 21        | .990 [25.15] | .890 [22.61] | N/A          | N/A          | 1.009 [25.63] | .909 [23.09] | N/A          | N/A          |
| 22        | .190 [4.83]  | .090 [2.29]  | .190 [4.83]  | .190 [4.83]  | .209 [5.31]   | .109 [2.77]  | .209 [5.31]  | .209 [5.31]  |
| 25        | .100 [2.54]  | N/A          | .100 [2.54]  | .100 [2.54]  | .119 [3.02]   | N/A          | .119 [3.02]  | .119 [3.02]  |
| 27        | .890 [22.61] | .790 [20.07] | N/A          | N/A          | .909 [23.09]  | .809 [20.55] | N/A          | N/A          |
| 28        | .690 [17.53] | .590 [14.99] | .690 [17.53] | N/A          | .709 [18.01]  | .609 [15.47] | .709 [18.01] | N/A          |
| 29        | .800 [20.32] | N/A          | N/A          | N/A          | .819 [20.80]  | N/A          | N/A          | N/A          |
| 30        | .600 [15.24] | N/A          | .600 [15.24] | N/A          | .619 [15.72]  | N/A          | .619 [15.72] | N/A          |

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.025[0.64] SQ. POST TERMINAL STRIP ASSEMBLY

DWG. NO.

TSW-XXX-XX-XXX-X-XX-XXX

BY: KOLB

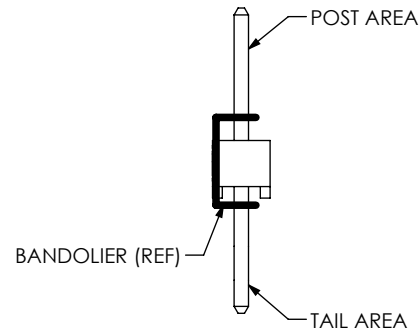
08/24/1988

SHEET 4 OF 6

TABLE 7 (-T PLATING ONLY)

| NUMBER OF BAND MARKS ALLOWED IN POST AREA |        |        |        | NUMBER OF BAND MARKS ALLOWED IN POST AREA |        |        |        |
|-------------------------------------------|--------|--------|--------|-------------------------------------------|--------|--------|--------|
| LEAD STYLE                                | PIN #1 | PIN #2 | PIN #3 | LEAD STYLE                                | PIN #1 | PIN #2 | PIN #3 |
| *-05                                      | *0     | N/A    | N/A    | *-17                                      | 2      | N/A    | N/A    |
| -06                                       | 1      | N/A    | N/A    | *-18                                      | 2      | N/A    | N/A    |
| -07                                       | 1      | N/A    | N/A    | *-19                                      | 2      | N/A    | N/A    |
| -08                                       | 0      | 0      | 0      | *-20                                      | 2      | N/A    | N/A    |
| -08 RA                                    | 0      | 0      | 0      | *-21                                      | 2      | N/A    | N/A    |
| -09                                       | 0      | 0      | 0      | -21-RA                                    | 0      | N/A    | N/A    |
| -09 RA                                    | 0      | 0      | 0      | -21-RE                                    | 0      | N/A    | N/A    |
| -09-RE                                    | 0      | 0      | 0      | -22                                       | 0      | 0      | 0      |
| -10                                       | 0      | 0      | 0      | -22-RA                                    | 0      | 0      | 0      |
| -10-RA                                    | 0      | 0      | 0      | -22-RE                                    | 0      | 0      | 0      |
| -10-RE                                    | 0      | 0      | 0      | -23                                       | 1      | N/A    | N/A    |
| -11                                       | 0      | 0      | 0      | -24                                       | 1      | N/A    | N/A    |
| -11-RA                                    | 0      | 0      | 0      | -25                                       | 1      | 1      | 1      |
| -11-RE                                    | 0      | 0      | 0      | *-25-RA                                   | 1      | 0      | 0      |
| -12                                       | 0      | 0      | 0      | *-26                                      | 1      | N/A    | N/A    |
| -12-RA                                    | 0      | 0      | 0      | *-27                                      | 0      | N/A    | N/A    |
| -12-RE                                    | 0      | 0      | 0      | *-27-RA                                   | 0      | N/A    | N/A    |
| -13                                       | 0      | 0      | N/A    | *-27-RE                                   | 0      | N/A    | N/A    |
| -13-RA                                    | 0      | 0      | N/A    | *-28                                      | 0      | 0      | N/A    |
| -13-RE                                    | 0      | 0      | N/A    | *-28-RA                                   | 0      | 0      | N/A    |
| -14                                       | 1      | N/A    | N/A    | *-28-RE                                   | 0      | 0      | N/A    |
| *-15                                      | 2      | N/A    | N/A    | *-29                                      | 1      | N/A    | N/A    |
| *-16                                      | 1      | 1      | 1      | *-29-RA                                   | 1      | N/A    | N/A    |
| *-16-RA                                   | 1      | 1      | 1      | *-30                                      | 1      | 1      | N/A    |
| *-16-RE                                   | 1      | 1      | 1      | *-30-RA                                   | 1      | 1      | N/A    |

INS TO BE FLIPPED OPPOSITE OF SELECTIVE PLATING BEFORE BEING INSERTED



IN PROCESS 1  
(SAME AS FIG. 1, DIFFERENT AS SHOWN)  
-T PLATING ONLY  
(SEE NOTE 11)  
(SEE TABLE 7)

TABLE 4

| PIN STYLE       | "L" REF       |
|-----------------|---------------|
| T-1S6-07-XXX-2  | 0.430 [10.92] |
| T-1S6-08-XXX-2  | 0.530 [13.46] |
| T-1S6-09-XXX-2  | 0.730 [18.54] |
| T-1S6-10-XXX-2  | 0.830 [21.08] |
| T-1S6-11-XXX-2  | 0.930 [23.62] |
| T-1S6-12-XXX-2  | 1.030 [26.16] |
| T-1S6-13-XXX-2  | 1.230 [31.24] |
| T-1S6-14-XXX-2  | 1.430 [36.32] |
| T-1S6-15-XXX-2  | 0.630 [16.00] |
| T-1S6-16-XXX-2  | 0.445 [11.30] |
| T-1S6-17-XXX-2  | 0.480 [12.19] |
| T-1S6-18-XXX-2  | 0.300 [7.62]  |
| T-1S6-19-XXX-2  | 1.330 [33.78] |
| T-1S6-20-XXX-2  | 1.130 [28.70] |
| T-1S6-21-XXX-2  | 0.335 [8.51]  |
| T-1RS7-01-XXX-2 | 0.456 [11.58] |

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DWG. NO.

TSW-XXX-XX-XXX-X-XX-XXX

BY: KOLB

08/24/1988

SHEET 5 OF 6

TABLE 1

## TERMINAL SPECIFICATIONS

| TERMINAL SPEC | PIN #1          | PIN #2         | PIN #3         | "C"                    |
|---------------|-----------------|----------------|----------------|------------------------|
| -05 (3)       | T-1S6-21-XXX-2  | N/A            | N/A            | 0.105 [2.67] (5)       |
| -06 (3)       | T-1S6-18-XXX-2  | N/A            | N/A            | 0.105 [2.67] (5)       |
| -07 (3)       | T-1S6-07-XXX-2  | N/A            | N/A            | 0.230 [5.84] (5)       |
| -08 (4)       | T-1S6-08-XXX-2  | T-1S6-09-XXX-2 | T-1S6-11-XXX-2 | (7)0.230 [5.84] (5)(6) |
| -09           | T-1S6-09-XXX-2  | T-1S6-11-XXX-2 | T-1S6-20-XXX-2 | 0.230 [5.84] (6)       |
| -10           | T-1S6-10-XXX-2  | T-1S6-12-XXX-2 | T-1S6-13-XXX-2 | 0.230 [5.84]           |
| -11           | T-1S6-11-XXX-2  | T-1S6-20-XXX-2 | T-1S6-19-XXX-2 | 0.230 [5.84]           |
| -12           | T-1S6-12-XXX-2  | T-1S6-13-XXX-2 | T-1S6-14-XXX-2 | 0.230 [5.84]           |
| -13           | T-1S6-13-XXX-2  | T-1S6-14-XXX-2 | N/A            | 0.230 [5.84]           |
| -14(3)        | T-1S6-08-XXX-2  | N/A            | N/A            | 0.320 [8.13] (5)       |
| -15 (3)       | T-1S6-09-XXX-2  | N/A            | N/A            | 0.520 [13.21] (5)      |
| -16           | T-1S6-09-XXX-2  | T-1S6-11-XXX-2 | T-1S6-20-XXX-2 | 0.320 [8.13] (5)(6)    |
| -17 (3)       | T-1S6-10-XXX-2  | N/A            | N/A            | 0.620 [15.75] (5)      |
| -18 (3)       | T-1S6-11-XXX-2  | N/A            | N/A            | 0.720 [18.29] (5)      |
| -19 (3)       | T-1S6-12-XXX-2  | N/A            | N/A            | 0.820 [20.83] (5)      |
| -20 (3)       | T-1S6-13-XXX-2  | N/A            | N/A            | 1.020 [25.91] (5)      |
| -21 (8)       | T-1S6-14-XXX-2  | N/A            | N/A            | 1.220 [30.99] (5)      |
| -21 (1)       | T-1S6-14-XXX-2  | N/A            | N/A            | 0.230 [5.84] (5)       |
| -22           | T-1S6-15-XXX-2  | T-1S6-10-XXX-2 | T-1S6-12-XXX-2 | 0.230 [5.84] (5)(6)    |
| -23 (3)       | T-1S6-16-XXX-2  | N/A            | N/A            | 0.230 [5.84] (5)       |
| -24 (3)       | T-1S6-17-XXX-2  | N/A            | N/A            | 0.265 [6.73] (5)       |
| -25 (4)       | T-1S6-15-XXX-2  | T-1S6-10-XXX-2 | T-1S6-12-XXX-2 | 0.320 [8.13] (5)(6)    |
| *-26 (3)      | T-1RS7-01-XXX-2 | N/A            | N/A            | 0.230 [5.84]           |
| -27           | T-1S6-19-XXX-2  | N/A            | N/A            | 0.230 [5.84]           |
| -28           | T-1S6-20-XXX-2  | T-1S6-19-XXX-2 | N/A            | 0.230 [5.84]           |
| -29(4)        | T-1S6-19-XXX-2  | N/A            | N/A            | 0.320 [8.13]           |
| -30 (4)       | T-1S6-20-XXX-2  | T-1S6-19-XXX-2 | N/A            | 0.320 [8.13]           |

(1) .230[5.84] POST FOR -RA OR -RE OPTION  
 (2) OMIT WITH -Q ROW SPECIFICATION  
 (3) NOT AVAILABLE IN -RA OR -RE OPTION  
 (4) NOT AVAILABLE IN -RE OPTION

\* SQUARE END OF PIN (T-1RS7-01-XXX-2 SHOULD BE LOCATED AT "C" DIMENSION DURING FILL PROCESS.  
 (SEE FIG. 6)

(5) AVAILABLE IN -LL OPTION  
 (6) AVAILABLE IN -LA OPTION  
 (7) ON STYLE -08 -LA, RA: "C" = .230[5.84] ± .005[0.13]  
 (8) 1.220[30.99] POST FOR STRAIGHT PIN VERSION

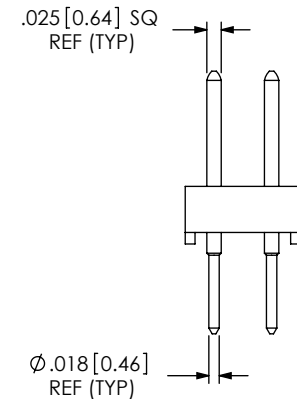


FIG 6  
 (-26 LEAD STYLE)  
 (SAME AS FIG. 1, DIFFERENT AS SHOWN)

## PROPRIETARY NOTE

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SHEET SCALE: 3:1

**samtec**

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DESCRIPTION:  
 .025[0.64] SQ. POST TERMINAL STRIP ASSEMBLY

DWG. NO.  
**TSW-XXX-XX-XXX-X-XX-XXX**

BY: KOLB 08/24/1988 SHEET 6 OF 6