

## NOTES:

1.  $\odot$  REPRESENTS A CRITICAL DIMENSION.
- 2-8. NOTES DELETED
9. MAXIMUM HEIGHT VARIATION BETWEEN ANY TWO PINS AND ROW: .010[0.25]
10. CONTACT AREA -F, -S, -L, -P GOLD TO BE ON LONGER TAIL.  
-G, -H, -E HEAVY GOLD TO BE ON LONGER TAIL.
11. CRIMPED TAILS OF .084 TO BE TOLERANCED  $+.008/-0.000[+.020/-0.00]$
12. TSW-50-D TO BE USED IF RTSW-50-D IS NOT AVAILABLE.
13. .000[0.00] MIN IF TAIL LENGTH IS GREATER THAN OR EQUAL TO .055[1.40]
14. MINIMUM TERMINAL PUSHOUT FORCE: 3 LBS
15. MAXIMUM CUT FLASH: .010[0.25]
16. FOR ADDED MECHANICAL STABILITY, SAMTEC RECOMMENDS MECHANICAL BOARD SPACERS BE USED IN APPLICATIONS WITH GOLD OR SELECTIVE GOLD PLATED CONNECTORS.  
CONTACT IPG@SAMTEC.COM FOR MORE INFORMATION.

XW-XX-XX-XXX-X-XXXX-XXX-XX-XXX

## SERIES

D: .110 TAIL LENGTH  
E: .330 TAIL LENGTH  
(N/A IN LEAD STYLES  
-07, -08, -16, OR -17)  
Z: XXX TAIL LENGTH

## No OF POSITIONS

-01 THRU -50  
No OF POS PER ROW x .100[2.54]

LEAD STYLE  
(SEE TABLE 1)

## PLATING SPECIFICATION

-G: 10 $\mu$ " GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL  
-T: MATTE TIN CONTACT AND TAIL  
-S: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-H: 30 $\mu$ " GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL  
-L: 10 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-F: 3 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-E: 50 $\mu$ " GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL  
(STYLE -13 ONLY)  
-STL: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA,  
TIN/LEAD (90/10 $\pm$ 5%) TAIL  
-FM: 3 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-LM: 10 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-SM: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-TM: MATTE TIN ON CONTACT AND TAIL

## OPTION

POLARIZING SPEC (SEE FIG 3)  
-XXX INDICATES OMITTED POS

## OPTION

-LL: LOCKING LEAD (SEE FIG 2)  
AVAIL ON TAILS FROM  
.084[2.13] - .310[7.87]  
EXCEPT FOR -Q ROW AND  
POS 01 & 02 -S ROW

TAIL LENGTH  
Z SERIES ONLY

## SPACE OPTION

## ROW OPTION

(SEE FIG 2)  
-S: SINGLE (USE TSW-XX-S)  
-D: DOUBLE (USE RTSW-XX-D)(SEE NOTE 12)  
-T: TRIPLE (USE TSW-XX-T)  
-Q: TRIPLE, ONLY OUTER ROWS FILLED  
(USE TSW-XX-T)

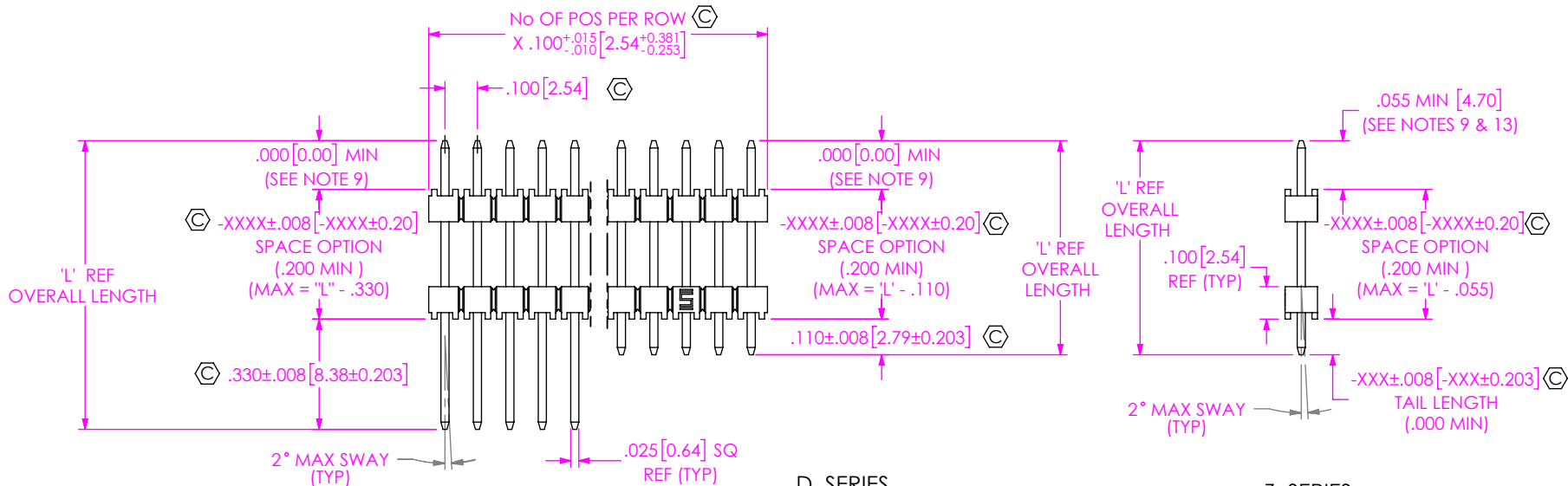
DO NOT  
SCALE FROM  
THIS PRINTE SERIES  
(SEE NOTE 10)D SERIES  
(SEE NOTE 10)Z SERIES  
(SEE NOTE 10)

FIG 1

TABLE 1

| LEAD STYLE   |          | TERMINAL       | "L" - OVERALL LENGTH<br>REF | CONTACT AREA |
|--------------|----------|----------------|-----------------------------|--------------|
| SERIES D & Z | SERIES E |                |                             |              |
| -07          | N/A      | T-1S6-07-XXX-2 | .430 [10.92]                | .165 [4.19]  |
| -08          | N/A      | T-1S6-08-XXX-2 | .530 [13.46]                | .165 [4.19]  |
| -09          | -09      | T-1S6-09-XXX-2 | .730 [18.54]                | .165 [4.19]  |
| -10          | -10      | T-1S6-10-XXX-2 | .830 [21.08]                | .165 [4.19]  |
| -11          | -11      | T-1S6-11-XXX-2 | .930 [23.62]                | .165 [4.19]  |
| -12          | -12      | T-1S6-12-XXX-2 | 1.030 [26.16]               | .165 [4.19]  |
| -13          | -13      | T-1S6-13-XXX-2 | 1.230 [31.24]               | .165 [4.19]  |
| -14          | -14      | T-1S6-14-XXX-2 | 1.430 [36.32]               | .165 [4.19]  |
| -15          | -15      | T-1S6-15-XXX-2 | .630 [16.00]                | .165 [4.19]  |
| -16          | N/A      | T-1S6-16-XXX-2 | .445 [11.30]                | .165 [4.19]  |
| -17          | N/A      | T-1S6-17-XXX-2 | .480 [12.19]                | .165 [4.19]  |
| -19          | -19      | T-1S6-19-XXX-2 | 1.330 [33.78]               | .165 [4.19]  |
| -20          | -20      | T-1S6-20-XXX-2 | 1.130 [28.70]               | .165 [4.19]  |

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:

DECIMALS ANGLES  
.XX:  $\pm .01$  [0.3]  
.XXX:  $\pm .005$  [0.13]  
.XXXX:  $\pm .0020$  [0.051]

## \* PROPRIETARY NOTE \*

THIS DOCUMENT CONTAINS CONFIDENTIAL AND  
PROPRIETARY INFORMATION AND ALL DESIGN,  
MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS  
AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC,  
INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE  
OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR  
REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY  
OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS  
WRITTEN CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:2  
INSULATOR: PBT, UL94-V0 GLASS FILLED POLYESTER, COLOR: BLACK  
TERMINAL: PHOS BRONZE, ALLOY No 510, 3/4 HARD,  
TENSILE RANGE 95-105 KSI

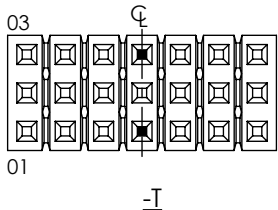
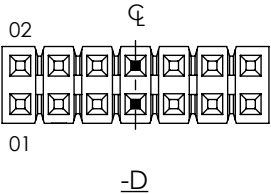
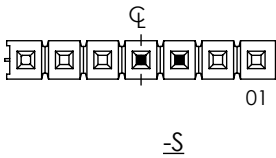
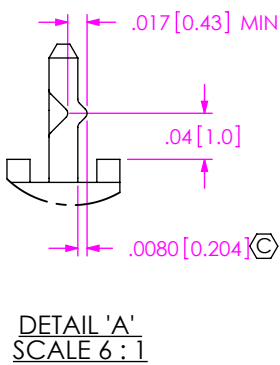
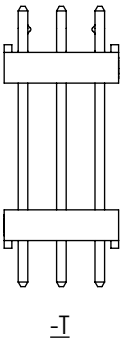
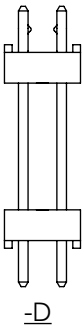
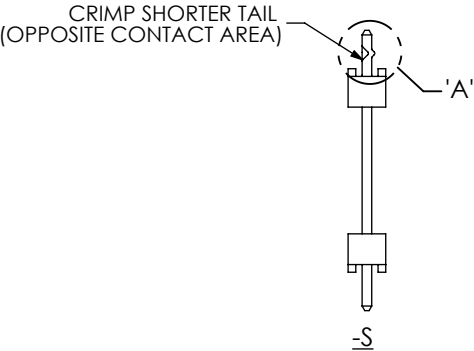
**samtec**

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

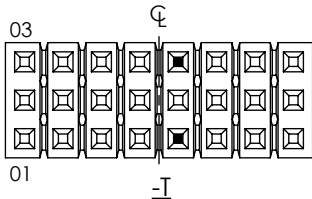
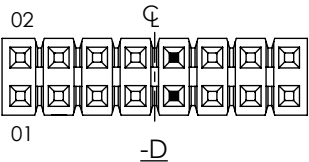
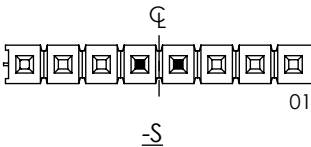
DESCRIPTION:  
LOW COST BOARD SPACERS

DWG. NO.  
XW-XX-XX-XXX-X-XXXX-XXX-XX-XXX

BY: WILLIAMS 08/13/1984 SHEET 1 OF 2



■ = CRIMP LOCATION  
FOR -S, CRIMP CENTER POSITION & PIN CLOSEST TO PIN 1  
ODD POSITIONS



■ = CRIMP LOCATION  
FOR -S, TWO CENTER MOST PINS TO BE CRIMPED  
EVEN POSITIONS

FIG 2  
-LL: LOCKING LEAD  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

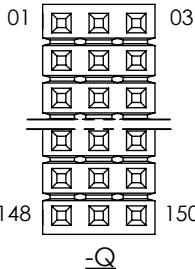
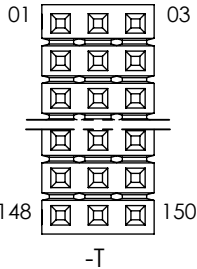
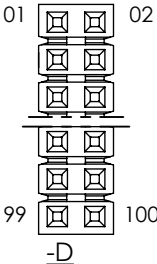
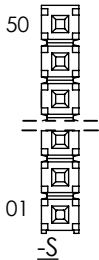


FIG 3  
NUMBER OF POSITIONS WITH .330, .110, OR ZW TAIL DOWN

PROPRIETARY NOTE  
THIS DOCUMENT CONTAINS CONFIDENTIAL AND  
PROPRIETARY INFORMATION AND ALL DESIGN,  
MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS  
AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC,  
INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE  
OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR  
REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY  
OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS  
WRITTEN CONSENT OF SAMTEC, INC.

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

DO NOT SCALE DRAWING  
SHEET SCALE: 2:1

DESCRIPTION:  
LOW COST BOARD SPACERS  
DWG. NO.  
XW-XX-XX-XXX-X-XXXX-XXX-XX-XXX  
BY: WILLIAMS 08/13/1984 SHEET 2 OF 2

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[DW-04-17-F-S-240](#) [ZW-07-11-F-D-527-137](#) [DW-40-12-L-S-370](#) [DW-04-09-F-D-418](#) [ZW-48-20-S-D-330-600](#) [ZW-09-08-G-S-225-241](#) [ZW-09-09-T-S-500-080](#) [ZW-05-12-G-D-415-220](#) [DW-06-12-F-S-727](#) [ZW-10-10-F-D-381-140](#) [DW-12-14-F-D-1000-013](#) [ZW-07-14-T-D-984-126](#) [ZW-08-09-S-S-472-122](#) [ZW-20-20-G-D-490-320](#) [ZW-33-08-T-D-290-110](#) [DW-06-19-T-S-133](#) [ZW-04-11-L-D-600-230](#) [ZW-07-09-S-S-472-122](#) [ZW-11-13-T-D-875-163](#) [ZW-11-20-T-D-875-163](#) [DW-02-15-F-D-393](#) [ZW-09-09-G-D-255-359-018](#) [DW-16-19-T-S-625](#) [ZW-08-13-G-S-790-120](#) [DW-07-09-G-S-470](#) [ZW-20-20-G-D-320-320](#) [DW-12-17-F-S-240](#) [ZW-30-11-L-D-472-230](#) [ZW-50-10-G-S-300-300](#) [DW-10-09-F-D-418](#) [ZW-05-19-F-D-785-115](#) [ZW-09-09-G-D-255-360-002](#) [DW-35-09-G-D-510](#) [ZW-08-13-T-D-768-228](#) [ZW-07-11-G-D-527-137](#) [ZW-08-09-F-S-500-070](#) [DW-04-11-L-S-575](#) [DW-06-10-F-S-330](#) [DW-20-12-L-D-765](#) [ZW-02-20-G-D-554-288](#) [ZW-03-14-F-D-500-150](#) [ZW-08-13-L-D-840-146](#) [ZW-11-13-T-D-876-163](#) [DW-09-19-G-D-993](#) [DW-18-08-F-S-300](#) [ZW-05-13-S-D-717-136](#) [ZW-10-10-G-D-405-138](#) [ZW-20-20-G-D-315-407](#) [DW-02-20-T-S-260](#) [DW-08-12-T-S-720](#) [ZW-04-10-T-S-510-160](#) [ZW-06-19-T-S-880-225](#) [ZW-08-13-G-D-768-228](#) [ZW-10-19-G-D-875-115](#) [DW-01-19-G-Q-700](#) [DW-08-10-F-S-330](#) [DW-08-14-L-D-985](#) [DW-10-15-T-D-315](#) [DW-12-09-T-S-200](#) [ZW-04-14-G-D-1110-120](#) [ZW-35-08-T-D-290-109](#) [ZW-36-09-T-D-375-177](#) [DW-06-20-L-S-625](#) [DW-13-08-L-D-236](#) [DW-25-14-L-T-1170](#) [ZW-04-09-T-D-300-100](#) [ZW-08-10-T-D-450-139](#) [ZW-08-11-G-T-530-200](#) [ZW-12-11-L-D-570-120](#) [ZW-13-10-F-D-393-196-LL](#) [DW-04-13-L-S-650](#) [DW-16-11-L-T-500](#) [ZW-03-20-G-D-554-288](#) [ZW-10-20-T-D-550-163](#) [DW-02-14-G-S-700](#) [DW-16-12-L-S-655](#) [ZW-05-12-G-S-469-281](#) [ZW-32-13-G-S-875-225](#) [DW-06-08-L-D-255](#) [DW-10-20-F-D-683](#) [ZW-02-10-G-D-390-220](#) [ZW-05-10-G-S-405-138](#) [ZW-05-15-L-D-330-079](#) [ZW-10-09-T-D-200-265](#) [DW-01-11-F-S-575](#) [DW-32-12-L-D-730](#) [ZW-04-08-G-D-300-075](#) [ZW-04-09-L-S-370-260](#) [ZW-12-07-T-Q-200-080](#) [DW-01-12-T-D-446](#) [DW-03-14-G-S-700](#) [DW-04-10-F-S-200](#) [DW-04-10-G-D-410](#) [ZW-04-08-T-D-200-100](#) [DW-07-13-T-S-945](#) [DW-13-09-L-S-200](#) [ZW-01-10-F-S-669-080](#) [DW-09-20-L-D-358](#) [DW-10-11-L-S-300](#) [DW-20-09-F-T-455](#)