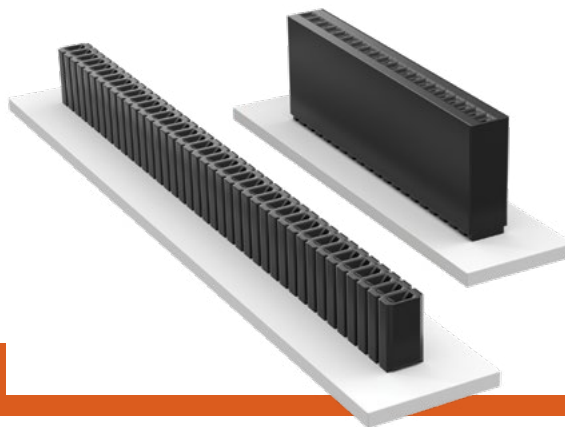


# THROUGH-HOLE MICRO SOCKETS

(1.27 mm) .050" PITCH • SLM/SMS SERIES



## SLM

### Mates:

HTMS, TMS, MTMS, DWM,  
HDWM, FTR, HMTMS

## SMS

### Mates:

HTMS, TMS, MTMS,  
DWM, HDWM, FTR, TML,  
ZML, HMTM

## SPECIFICATIONS

### Insulator Material:

SLM: Black Glass Filled Polyester

SMS: Black LCP

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Current Rating (SLM/TMS):

5.2 A per pin

(2 pins powered)

### Current Rating (SMS/TMS):

5.0 A per pin

(2 pins powered)

### Operating Temp Range:

-55 °C to +125 °C with Gold

-55 °C to +105 °C with Tin

### Insertion Depth:

SLM: (2.03 mm) .080"

to (3.05 mm) .120"

SMS: (3.43 mm) .135" to

(6.35 mm) .250" with

(0.38 mm) .015" wipe

## PROCESSING

### Lead-Free Solderable:

SLM: No, Lead Wave Only

SMS: Yes

## ALSO AVAILABLE

Other Platings  
(MOQ Required)

**Note:**  
Some lengths, styles and  
options are non-standard,  
non-returnable.

| SLM | - | 1 | NO. PINS<br>PER ROW | - | 01 | - | PLATING<br>OPTION | - | ROW<br>OPTION |
|-----|---|---|---------------------|---|----|---|-------------------|---|---------------|
|-----|---|---|---------------------|---|----|---|-------------------|---|---------------|

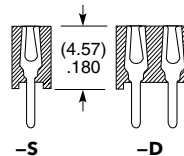
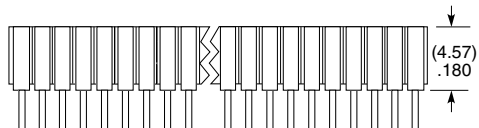
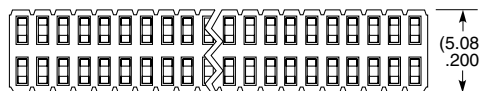
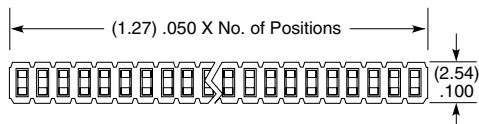
01 thru 50

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m) Gold on contact,  
Matte Tin on tail

**-S**  
= Single  
Row

**-G**  
= 20  $\mu$ " (0.51  $\mu$ m) Gold on contact,  
Gold flash on balance

**-D**  
= Double  
Row



| SMS | - | 1 | NO. PINS<br>PER ROW | - | LEAD<br>STYLE | - | PLATING<br>OPTION | - | ROW<br>OPTION |
|-----|---|---|---------------------|---|---------------|---|-------------------|---|---------------|
|-----|---|---|---------------------|---|---------------|---|-------------------|---|---------------|

01 thru 50

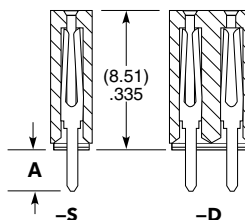
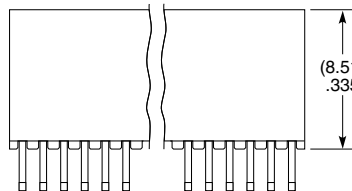
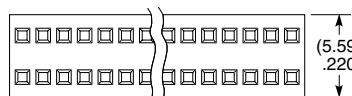
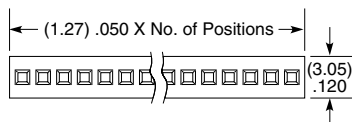
Specify  
LEAD  
STYLE  
from  
chart

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m) Gold on contact,  
Matte Tin on tail

**-S**  
= Single  
Row

**-G**  
= 20  $\mu$ " (0.51  $\mu$ m) Gold on contact,  
Gold flash on balance

**-D**  
= Double  
Row



| LEAD<br>STYLE | A           |
|---------------|-------------|
| -01           | (2.54) .100 |
| -02           | (4.83) .190 |

| DIMENSIONS ARE IN INCHES           |  | UNLESS OTHERWISE NOTED | TOLERANCES ARE: |
|------------------------------------|--|------------------------|-----------------|
| ONE PLACE DECIMALS $\pm .1$ [2.54] | THREE PLACE DECIMALS $\pm .005$ [.13]  | ANGLES                 | $\pm 2^\circ$   |
| TWO PLACE DECIMALS $\pm .01$ [.25] | FOUR PLACE DECIMALS $\pm .0020$ [.051] |                        |                 |

TITLE: .050 [1.27]  $\phi$   
 SOCKET MICRO STRIP

DWG NO: SMS-1XX-XX-X-S  
 SHEET 1 OF 1

DO NOT SCALE  
 FROM THIS PRINT

TABLE 1

| LEAD STYLE | CONTACT  | 'B'         | PKG TUBE (SEE NOTE 5) | PLUG  |
|------------|----------|-------------|-----------------------|-------|
| 01         | C-16-1-X | .100 [2.54] | PT-1-24-01-53         | TP-09 |
| 02         | C-16-2-X | .190 [4.83] |                       |       |

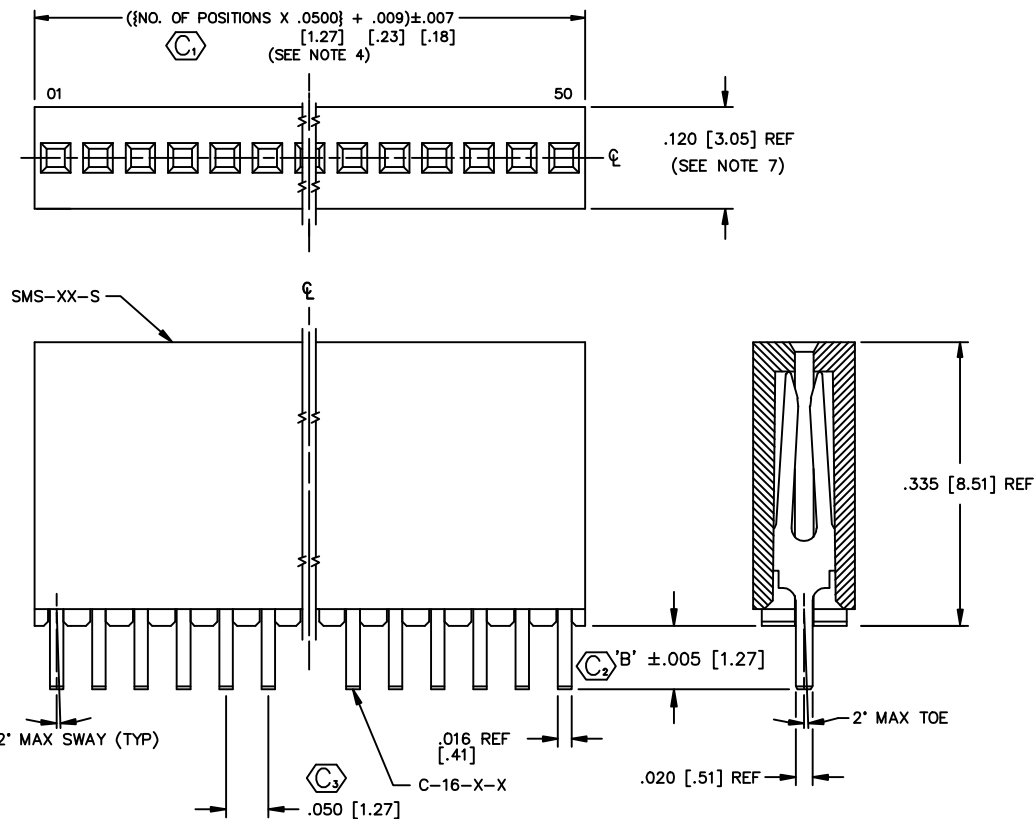
SMS-1XX-XX-X-S

BODY LENGTH SPECIFICATION  
 -01 THRU -50 POSITIONS

CONTACT SPECIFICATION  
 (SEE TABLE 1)  
 USE SPECIFIED LEAD STYLE TO  
 IDENTIFY CONTACT

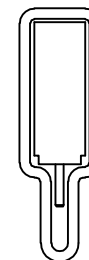
BODY SPECIFICATION  
 -S: SINGLE ROW (USE SMS-50-S)

PLATING SPECIFICATION  
 -G: GOLD (SPECIFY G IN CONTACT SUFFIX 'X')  
 -T: TIN (SPECIFY T IN CONTACT SUFFIX 'X')  
 -S: SELECTIVE GOLD, MATTE TIN TAIL  
 (SPECIFY S IN CONTACT SUFFIX 'X')  
 -F: FLASH SELECTIVE GOLD, MATTE TIN TAIL  
 (SPECIFY F IN CONTACT SUFFIX 'X')  
 (AVAILABLE IN -01 LEAD STYLE ONLY)  
 -H: HEAVY GOLD (SPECIFY H IN CONTACT SUFFIX 'X')  
 -L: LIGHT SELECTIVE GOLD, MATTE TIN TAIL  
 (SPECIFY L IN CONTACT SUFFIX 'S')



## NOTES:

- 1.) MAX. BOWING AFTER ASSEMBLY  
 .006 [.15] INCH/INCH
- 2.) MAX. FLASH .005 [.13]
- 3.)  $\phi$  REPRESENTS A CRITICAL DIMENSION  
 FOR STATISTICAL PROCESS CONTROL USE.
- 4.) PARTS CUT TO POSITION SHOULD BE  
 SYMMETRICAL ABOUT C. END WALLS  
 OF CUT BODIES SHALL BE .012 [.30] MIN.  
 WHEN MEASURED AT CONTACT TAIL.
- 5.) PACKAGE ONLY POSITIONS 10 THROUGH  
 50 IN TUBES. BOX PACKAGE POSITIONS  
 01 THROUGH 09.
- 6.) CONTACT PUSHOUT FORCE: 1.5 LBS. MIN
- 7.) .125 [3.18] MAX WIDTH AFTER FILL.



PACKAGING VIEW  
 SCALE: .5x

**PROPRIETARY NOTE**  
 THIS DOCUMENT CONTAINS INFORMATION  
 CONFIDENTIAL AND PROPRIETARY TO  
 SAMTEC INC. AND SHALL NOT BE  
 REPRODUCED OR TRANSFERRED TO  
 OTHER DOCUMENTS OR DISCLOSED TO  
 OTHERS OR USED FOR ANY PURPOSE  
 OTHER THAN THAT FOR WHICH IT WAS  
 OBTAINED WITHOUT THE EXPRESSED  
 WRITTEN CONSENT OF SAMTEC INC.

**samtec**

520 PARK EAST BLVD. NEW ALBANY, INDIANA 47150  
 PHONE (812) 944-6733 P.O. BOX 1147  
 CODE 55322

MADE BY:  
 L. WILLIAMS 7-20-84

SMS-1XX-XX-X-S  
 SHEET 1 OF 1