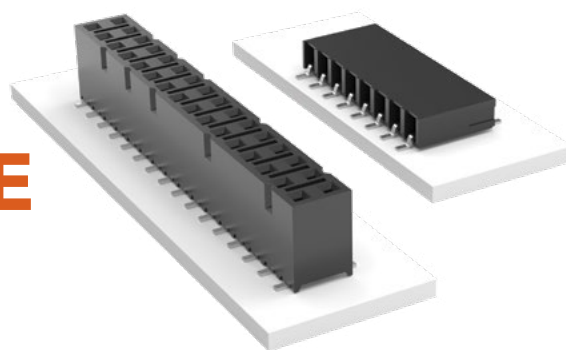


# TIGER CLAW<sup>TM</sup> SURFACE MOUNT SOCKET

(2.54 mm) .100" PITCH • SSM SERIES

8  
Gbps



## SSM

### Mates:

TSW, MTSW,  
TST, TSS, ZST, ZSS,  
DW, EW, ZW, TSM,  
HMTSW, HTSW, TSSH,  
BST, HTSS, TLW, MTLW

## SPECIFICATIONS

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

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

### Current Rating (SSM/TSW):

5.2 A per pin  
(2 pins powered)

### Voltage Rating:

405 VAC / 572 VDC

### Operating Temp Range:

-55 °C to +125 °C with Gold  
-55 °C to +105 °C with Tin

### Insertion Depth:

SV/DV = (4.34 mm) .171" to  
(7.24 mm) .285" or pass-through  
from top; (5.56 mm) .219"  
plus board thickness minimum  
from bottom;

SH/DH = (4.34 mm) .171" to  
(6.35 mm) .250"

### Normal Force:

125 grams (1.21 N) average

## PROCESSING

### Lead-Free Solderable:

Yes

### -DH Coplanarity:

Less than 28 positions  
(0.15 mm) .006" max\*

More than 27 positions  
(0.20 mm) .008" max\*

### -SH, -SV, -DV Coplanarity:

(0.15 mm) .006" max\*

\*(.004" stencil solution  
may be available; contact  
IPG@samtec.com)

## ALSO AVAILABLE

Alignment pin  
(MOQ Required)



### Note:

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

| SSM | 1 | NO. PINS PER ROW              | PLATING OPTION                                                             | ROW OPTION                            | OTHER OPTION                                                                                                                                 |
|-----|---|-------------------------------|----------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|     |   | 02 thru 36<br>(-SV, -SH, -DH) | -F<br>= Gold flash<br>on contact,<br>Matte Tin on tail                     | -SV<br>= Single Row<br>Vertical Pin   | -“XXX”<br>= Polarized Position<br>(-BE not available)                                                                                        |
|     |   | 02 thru 40<br>(-DV)           | -L<br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold on contact,<br>Matte Tin on tail | -DV<br>= Double Row<br>Vertical Pin   | -BE<br>= Bottom Entry<br>(-DV & -SV only)                                                                                                    |
|     |   |                               | -S<br>= 30 $\mu$ " (0.76 $\mu$ m)<br>Gold on contact,<br>Matte Tin on tail | -SH<br>= Single Row<br>Horizontal Pin | -LC<br>= Locking Clip<br>(-DV & -SV only)<br>Contact Samtec for<br>-DH & -SH                                                                 |
|     |   |                               |                                                                            | -DH<br>= Double Row<br>Horizontal Pin | -K<br>= (6.50 mm) .256" DIA<br>Polyimide film<br>Pick & Place Pad<br>(2 positions min.)<br>-DV & -SV only                                    |
|     |   |                               |                                                                            |                                       | -M<br>= Metal Pick<br>& Place Pad<br>(5 positions min.)<br>-DV only                                                                          |
|     |   |                               |                                                                            |                                       | -P<br>= Plastic Pick<br>& Place Pad<br>(-DV & -SV only)<br>(6 positions min.)<br>Contact Samtec<br>for availability on<br>smaller positions) |
|     |   |                               |                                                                            |                                       | -TR<br>= Tape & Reel<br>(29 positions max.)                                                                                                  |
|     |   |                               |                                                                            |                                       | -FR<br>= Full Reel<br>Tape & Reel<br>(must order max.<br>quantity per reel;<br>contact Samtec for<br>quantity breaks)<br>(29 positions max.) |

