

(2,54 mm) .100"

SSM-115-L-SH

SSM-116-S-SV

SSM-120-S-DV

SSM SERIES

# TIGER CLAW™ SURFACE MOUNT SOCKET

## Mates with:

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

## SPECIFICATIONS

For complete specifications  
and recommended PCB layouts  
see [www.samtec.com?SSM](http://www.samtec.com?SSM)

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over

50µ" (1,27 µm) Ni

### Current Rating (SSM/TSW):

5.2 A per pin

(1 pin powered per row)

### Voltage Rating:

475 VAC (-SV/-DV mated

with TSW)

450 VAC (-SH/-DH mated

with TSM)

### Operating Temp Range:

-55°C to +125°C with Gold

-55°C to +105°C with Tin

### Contact Resistance:

10 mΩ

### Insertion Depth:

SV/DV is (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 is (4,34 mm)

.171" to (6,35 mm) .250"

### Insertion Force:

(Single contact only)

5 oz (1,39 N) average

### Normal Force:

125 grams (1,21 N) average

### Withdrawal Force:

(Single contact only)

2 oz (0,56 N) average

### RoHS Compliant: Yes

### 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

## RECOGNITIONS

For complete scope  
of recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)



**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) |   | 02 thru 40<br>(-DV)                                             | -F<br>= Gold flash<br>on contact,<br>Matte Tin on tail                       |            | -BE<br>= Bottom Entry<br>(-DV & -SV only)                                                                                               |
|                               |   | -L<br>= 10µ" (0,25 µm)<br>Gold on contact,<br>Matte Tin on tail | -LC<br>= Locking Clip<br>(-DV & -SV only)<br>Contact Samtec for<br>-DH & -SH |            |                                                                                                                                         |
|                               |   |                                                                 | -S<br>= 30µ" (0,76 µm)<br>Gold on contact,<br>Matte Tin on tail              |            | -K<br>= (6,50 mm) .256" DIA<br>Polyimide film<br>Pick & Place Pad<br>(2 positions min.)<br>-DV & -SV only                               |
|                               |   |                                                                 |                                                                              |            | -P<br>= Plastic Pick & Place Pad<br>(-DV & -SV only)<br>(6 pos. minimum,<br>contact Samtec<br>for availability on<br>smaller positions) |
|                               |   |                                                                 |                                                                              |            | -“XXX”<br>= Polarized Position<br>(-BE not available)                                                                                   |
|                               |   |                                                                 |                                                                              |            | -TR<br>= Tape & Reel Packaging<br>(29 positions max.)                                                                                   |

## ALSO AVAILABLE (MOQ Required)

- Alignment pin
- Contact Samtec.

## APPLICATIONS



HORIZONTAL

| -SV<br>= Single Row Vertical Pin                                                                                           | -DV<br>= Double Row Vertical Pin                                                                      |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <p>Dimensions: (2,54) .100 x No. of Positions, (2,54) .100, (7,37) .290, (4,42) .174, (0,13) .005</p>                      | <p>Dimensions: (2,54) .100 x No. of Positions, (2,54) .100, (7,37) .290, (1,27) .050, (1,42) .056</p> |
| -SH<br>= Single Row Horizontal Pin                                                                                         | -DH<br>= Double Row Horizontal Pin                                                                    |
| <p>Dimensions: (1,78) .070, (2,54) .100 x No. of Positions, (0,89) .035 SQ TYP, (11,00) .433, (0,25) .010, (8,13) .320</p> | <p>Dimensions: (2,54) .100 x No. of Positions, (2,54) .100, (7,37) .290, (1,27) .050, (1,42) .056</p> |

Due to technical progress, all designs, specifications and components are subject to change without notice.

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