



(2.54 mm) .100"

SSM-115-L-SH

SSM-120-S-DV

SSM-116-S-SV

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

50 μ" (1.27 μm) 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 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"

### Normal Force:

125 grams (1.21 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\*

\*(.004" stencil solution

may be available; contact

IPG@samtec.com)

## RECOGNITIONS

For complete scope

of recognitions see

[www.samtec.com/quality](http://www.samtec.com/quality)



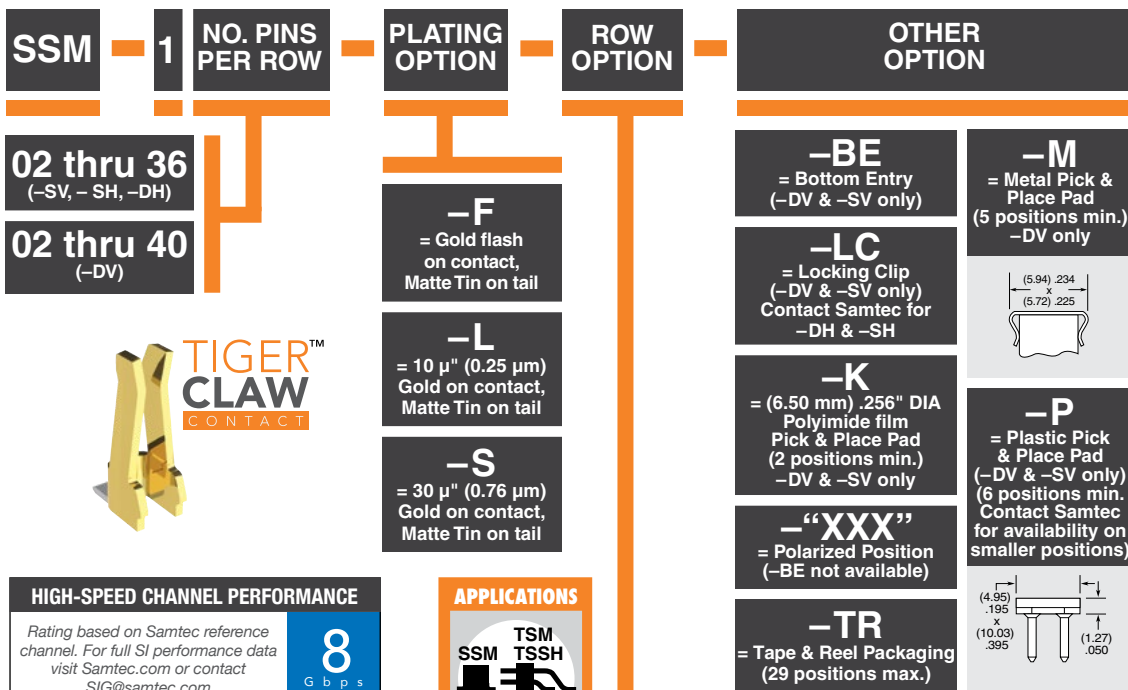
FILE NO. E111594

**ALSO AVAILABLE**  
(MOQ Required)

- Alignment pin

### Note:

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



## HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

8 Gbps

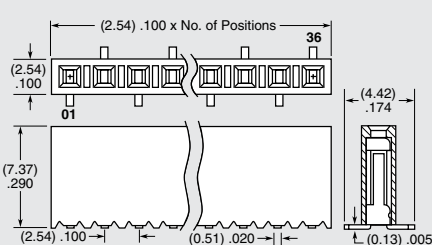
## APPLICATIONS



HORIZONTAL

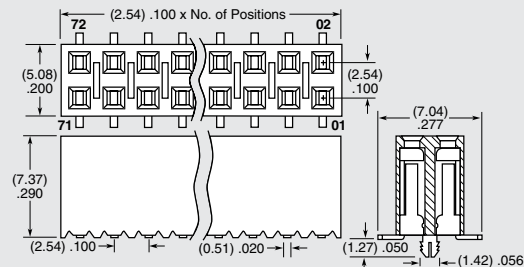
-SV

= Single Row Vertical Pin



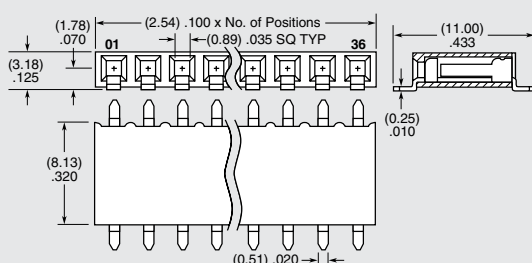
-DV

= Double Row Vertical Pin



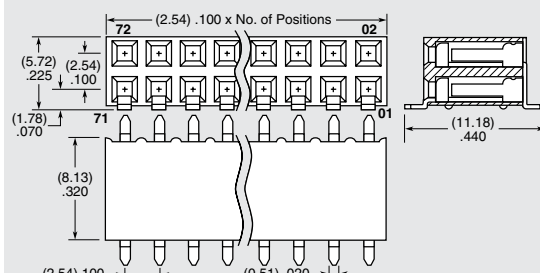
-SH

= Single Row Horizontal Pin



-DH

= Double Row Horizontal Pin



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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.