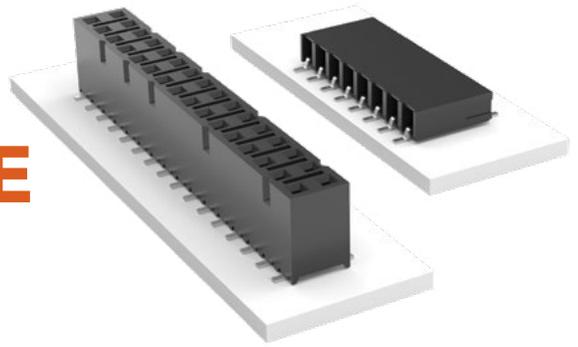




# TIGER CLAW™ SURFACE MOUNT SOCKET



(2.54 mm) .100" PITCH • A-SSM SERIES

## A-SSM

### Mates:

A-TSW, A-MTSW,  
A-TSS, A-ZSS, A-DW,  
A-ZW, A-TSM, A-HMTSW,  
A-HTSW, A-HTSS, A-MTLW



## SPECIFICATIONS

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over  
50 μm (1.27 μm) Ni

### Current Rating (A-SSM/A-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)

A-SSM	1	NO. PINS PER ROW	PLATING OPTION	ROW OPTION	OTHER OPTION
-------	---	------------------	----------------	------------	--------------

02 thru 36  
(-SV, -SH, -DH)

02 thru 40  
(-DV)

-L

= 10 μm (0.25 μm)  
Gold on contact,  
Matte Tin on tail

-SV

= Single Row  
Vertical Pin

-DV

= Double Row  
Vertical Pin

-SH

= Single Row  
Horizontal Pin

-DH

= Double Row  
Horizontal Pin

-A

= Alignment Pin  
(-DV only)

-BE

= Bottom Entry  
(-DV & -SV only)

-P

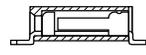
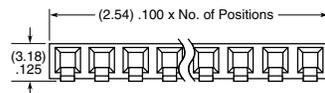
= Plastic Pick & Place Pad  
(-DV & -SV only)  
(6 positions min.;  
Contact Samtec  
on availability of  
other positions)

-K

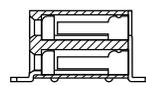
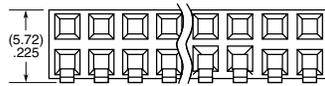
= (6.50 mm) .256" DIA  
Polyimide film  
Pick & Place Pad  
(2 positions min.)  
-DV & -SV only

-TR

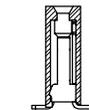
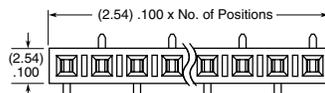
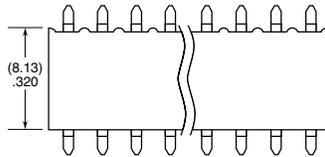
= Tape & Reel  
(29 positions max.)



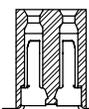
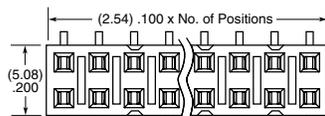
-SH



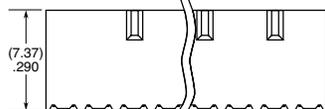
-DH



-SV



-DV



### Note:

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

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

[samtec.com/Automotive](http://samtec.com/Automotive)