



**ELP™**  
EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 30µ" Gold  
2,500 cycles when mated with TSM

(2,54mm) .100"

**SSM SERIES**

SSM-115-L-SH

SSM-120-S-DV

SSM-116-S-SV

## SMT .025" SQ BOX 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" (1,27µm) Ni

#### 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 max

#### Insertion Depth:

SV/DV is (4,34mm) .171" to

(7,24mm) .285" or pass-through

from top; (5,56mm) .219" plus

board thickness minimum from

bottom; SH/DH is (4,34mm)

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

#### Insertion Force:

(Single contact only)

5oz (1,39N) average

#### Normal Force:

125 grams (1,21N) average

#### Withdrawal Force:

(Single contact only)

2oz (0,56N) average

#### RoHS Compliant:

Yes

CURRENT RATING	
AMBIENT TEMP	SSM mated with TSW
20°C	6.9A
40°C	6A
60°C	5.3A
95°C	3.5A

6 POSITIONS (2x3) POWERED

### Processing:

#### Lead-Free Solderable:

Yes

#### -DH Coplanarity:

Less than 28 positions

(0,15mm) .006" max

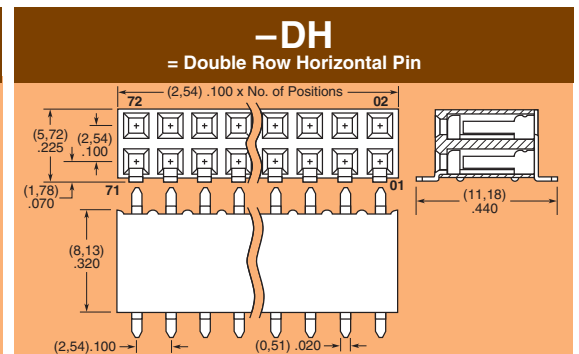
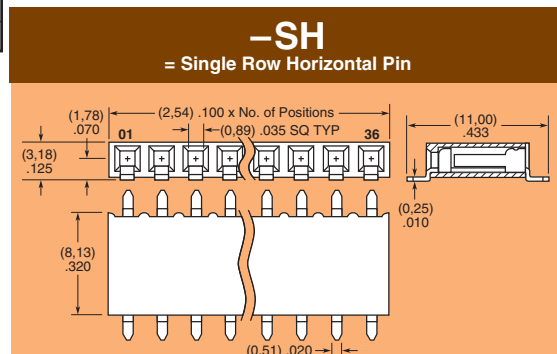
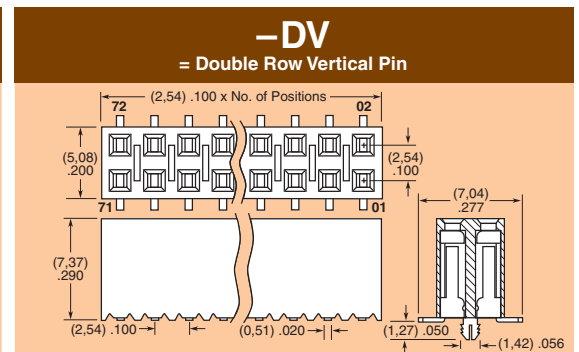
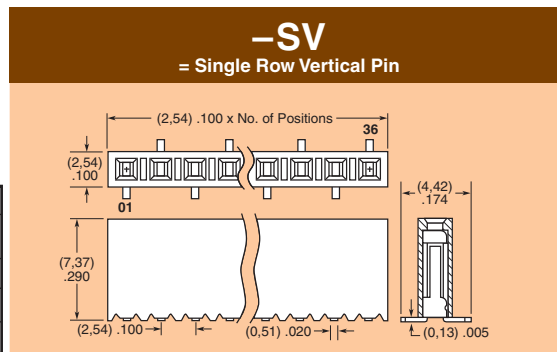
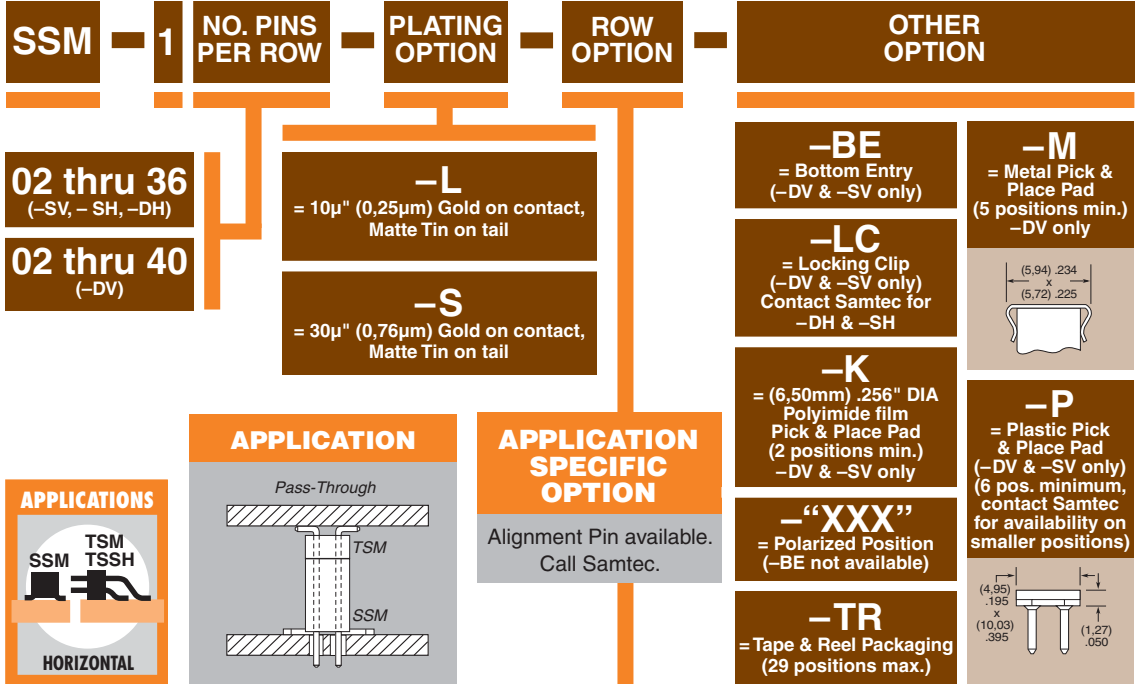
More than 27 positions

(0,20mm) .008" max

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

(0,15mm) .006" max

**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.

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