

(2,54mm) .100"

SS, SD, ESD, ESS, HSS SERIES

# PRECISION MACHINED SOCKET STRIPS

Mates with:  
TS, TD, HTS, BBS,  
BBD, BBL, BDL, BHS,

## SPECIFICATIONS

For complete specifications see [www.samtec.com?SS](http://www.samtec.com?SS), [www.samtec.com?ESS](http://www.samtec.com?ESS), [www.samtec.com?SD](http://www.samtec.com?SD) or [www.samtec.com?ESD](http://www.samtec.com?ESD)

### SS, SD, ESS, ESD

Insulator Material:  
Black G.F. Polyester  
Contact:  
BeCu  
Shell:  
Brass



except Style 5A  
Phosphor Bronze  
Current Rating:  
1A

Plating:  
Au over 50µ" (1,27µm) Ni or  
Sn over 50µ" (1,27µm) Ni  
Operating Temp Range:  
-55°C to +125°C

Contact Resistance:  
10 mΩ max  
Lead Size Range:  
(0,38mm to 0,56mm) .015" to  
.022" DIA and most IC leads

Insertion Force:

(Single contact only)

Standard=

9oz (2,50N) avg.,

16oz (4,45N) max

Low Insertion Force=

2.5oz (0,70N) avg.,

5.5oz (1,53N) max

Withdrawal Force:

(Single contact only)

Standard=

2.5oz (0,70N) avg.,

1.5oz (0,42N) min

Low Insertion Force=

2.0oz (0,56N) avg.,

0.35oz (0,10N) min

Insertion Depth:

(-05, -1X & -21X, -5A)

(3,18mm) .125" to

(3,99mm) .157"

Insertion Depth: (-2, -22, -38)

(2,41mm) .095" to

(3,68mm) .145"

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

Wave only

## SPECIFICATIONS

For complete specifications see [www.samtec.com?HSS](http://www.samtec.com?HSS)

### HSS

Same as SS except:

Insulator Material:

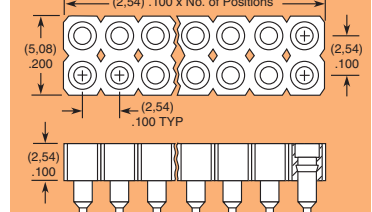
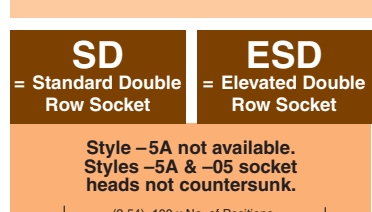
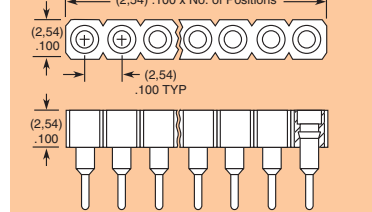
Black Liquid Crystal Polymer

Lead-Free Solderable:

Wave, or reflow with all Au



| TYPE STRIP | 1                                   | NO. PINS PER ROW                     | PLATING OPTION  | LEAD STYLE | OPTION   | OTHER OPTION   |
|------------|-------------------------------------|--------------------------------------|---|------------|--|----------------|
|            |                                     | 01 thru 32<br>= SS, ESS Series       | -S<br>= 10µ" (0,25µm) Gold contact,<br>Tin shell<br>(Styles 2 & 22 only)                |            | -L = Locking Socket<br>Add -L suffix for locking lead socket in end positions. Requires Style -2 or -22 and .035" ± .003 DIA board hole. | -N = Non Flush |
|            |                                     | 01 thru 36<br>= HSS, SD & ESD Series | -T<br>= 30µ" (0,76µm) Gold contact,<br>Tin shell  |            | Requires -T Plating Option   | N/A Style -5A  |
|            | SS<br>= Standard Single Row Socket  | HSS<br>= High Temp Single Row Socket | -G<br>= 30µ" (0,76µm) Gold contact,<br>10µ" (0,25µm) Gold shell                         |            |  |                |
|            | ESS<br>= Elevated Single Row Socket |                                      | -TT<br>= Tin contact and shell<br>(Styles 1, 2, 4, 18 only)<br>(and 05, except LIF N/A) |            | ALSO AVAILABLE<br>Locking lead option on ESS and ESD series. Contact Samtec.   |                |



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

### -1A, -1B or -1C

For LIF specify -21A, -21B or -21C (SS, HSS, SD)

| LEAD STYLE  | Y            |
|-------------|--------------|
| -1A or -21A | (9,14) .360  |
| -1B or -21B | (12,95) .510 |
| -1C or -21C | (6,60) .260  |

### -2, -22\*, -5A, or -38\*

\*For LIF specify -22 or -38 (SS, HSS, SD)

| LEAD STYLE | X DIA       | Y            | Z            |
|------------|-------------|--------------|--------------|
| -2 or -22  | (0,51) .020 | (3,18) .125  | (7,62) .300  |
| -38        | (0,51) .020 | (4,57) .180  | (8,89) .350  |
| -5A        | (0,89) .035 | (12,95) .510 | (17,86) .703 |

Locking lead available. See OPTION.

### -03, -04, -05

For LIF specify -23 (ESS, ESD)

(0,76) .030

(0,64) .025 SQ

| LEAD STYLE | A            | B            | C           |
|------------|--------------|--------------|-------------|
| 05         | (17,86) .703 | (13,46) .530 | (4,39) .173 |
| 03 or 23   | (11,51) .453 | (7,62) .300  | (3,89) .153 |
| 04         | (14,05) .553 | (10,16) .400 | (3,89) .153 |

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

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