



(2,54 mm) .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), [www.samtec.com?ESD](http://www.samtec.com?ESD) or [www.samtec.com?HSS](http://www.samtec.com?HSS)

**Insulator Material:**  
SS, SD, ESS, ESD= Black G.F. Polyester  
HSS= Black Liquid Crystal Polymer

**Contact:**  
BeCu

**Shell:**  
Brass except Style 5A  
Phosphor Bronze

**Plating:**  
Au over 50µ" (1,27 µm) Ni or Sn over 50µ" (1,27 µm) Ni

**Operating Temp Range:**  
-55°C to +125°C

**Contact Resistance:**  
10 mΩ

**Lead Size Range:**  
(0,38 mm to 0,56 mm)

.015" to .022" DIA and most IC leads

**Insertion Force:**  
(Single contact only)

Standard= 9 oz (2,50 N) avg., 16 oz (4,45 N) max

Low Insertion Force= 2.5 oz (0,70 N) avg., 5.5 oz (1,53 N) max

**Withdrawal Force:**  
(Single contact only)

Standard= 2.5 oz (0,70 N) avg., 1.5 oz (0,42 N) min

Low Insertion Force= 2.0 oz (0,56 N) avg., 0.35 oz (0,10 N) min

**Insertion Depth:**  
(-05, -1X & -21X, -5A)

(3,18 mm) .125" to (3,99 mm) .157"

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

(2,41 mm) .095" to (3,68 mm) .145"

**RoHS Compliant:**  
Yes

**Lead-Free Solderable:**  
Wave only

## RECOGNITIONS

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



| TYPE STRIP                         | 1 | NO. PINS PER ROW                     | PLATING OPTION   | LEAD STYLE  | OPTION  | OTHER OPTION   |
|------------------------------------|---|--------------------------------------|--|---|---|----------------|
|                                    |   | 01 thru 32<br>= SS, ESS Series       | -S<br>= 10µ" (0,25 µm) Gold contact, Tin shell<br>(Styles 2 & 22 only) | -T<br>= 30µ" (0,76 µm) Gold contact, Tin shell                            | -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 | -G<br>= 30µ" (0,76 µm) Gold contact, 10µ" (0,25 µm) Gold shell         | -TT<br>= Tin contact and shell<br>(Styles 1, 2, 4, and 05 except LIF N/A) | Requires -T Plating Option  | N/A Style -5A  |
| SS<br>= Standard Single Row Socket |   | HSS<br>= High Temp Single Row Socket |  |   |   |                |

### ESS = Elevated Single Row Socket

Styles -5A & -05 socket heads not countersunk.

| SD = Standard Double Row Socket   | ESD = Elevated Double Row Socket |
|---|----------------------------------|
| Style -5A not available. Styles -5A & -05 socket heads not countersunk. |                                  |
|   |                                  |

**LIF= Low Insertion Force**

**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)

| LEAD STYLE | A            | B            | C           |
|------------|--------------|--------------|-------------|
| 05         | (17,86) .703 | (13,46) .530 | (4,39) .173 |
| 03 or 23   | (11,51) .453 | (8,38) .330  | (3,12) .123 |
| 04         | (14,05) .553 | (10,92) .430 | (3,12) .123 |

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

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