



(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)



FILE NO. E111594

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

### ESS

= Elevated Single Row Socket

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

(2,54) .100 x No. of Positions

(2,54) .100 TYP

SD	ESD
= Standard Double Row Socket	= Elevated Double Row Socket

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

(2,54) .100 x No. of Positions

(5,08) .200

(2,54) .100 TYP

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)

(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	(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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