

(0,40mm) .01575"

SS4, ST4 SERIES

SS4-40-3.00-L-D-K-TR

ST4-20-1.00-L-D-P-TR

SS4-20-3.00-L-D-K-TR

ST4-40-1.00-L-D-P-TR

# ULTRA FINE PITCH HEADER & SOCKET

SS4 Mates with:  
ST4

ST4 Mates with:  
SS4

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SS4](http://www.samtec.com?SS4) or [www.samtec.com?ST4](http://www.samtec.com?ST4)

Insulator Material:  
Black LCP

Contact Material:  
Phosphor Bronze

Plating:

Au or Sn over 50μ" (1,27μm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

1.3A @ 80°C ambient

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10mm) .004" max



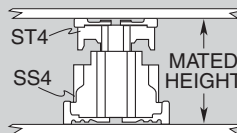
SS4	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	K	TR
	-10, -20, -30, -40, -50	-3.00 = 3.00mm -3.50 = 3.50mm	-L = 10μ" (0,25μm) Gold on contact, Matte Tin on tail		(Required in callout) -K = (3,51mm) .138" DIA Polyimide Film Pick & Place Pad	(Required in callout) -TR = Tape & Reel

LEAD STYLE	A	B
-3.00	(2,85) .112	(3,50) .138
-3.50	(3,35) .132	(4,00) .157

4mm Stack Height	Rated @ 3dB Insertion Loss
Single-Ended Signaling	7.0 GHz / 14 Gbps
Differential Pair Signaling	4.5 GHz / 9 Gbps

Complete test data available at [www.samtec.com?SS4](http://www.samtec.com?SS4), [www.samtec.com?ST4](http://www.samtec.com?ST4) or contact [sig@samtec.com](mailto:sig@samtec.com)

## MATED HEIGHT



### MATED HEIGHT\*

ST4 LEAD STYLE	SS4 LEAD STYLE	
	-3.00	-3.50
-1.00	(4,00) .157	(4,50) .177
-1.50	(4,50) .177	(5,00) .197
-2.50	(5,50) .217	(6,00) .236

\*Processing conditions will affect mated height.

ST4	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	P	TR
	-10, -20, -30, -40, -50	-1.00 = 1.00mm -1.50 = 1.50mm -2.50 = 2.50mm	-L = 10μ" (0,25μm) Gold on contact, Matte Tin on tail		(Required in callout) -P = Pick & Place Pad	(Required in callout) -TR = Tape & Reel

LEAD STYLE	A	B
-1.00	(1,00) .039	(3,08) .121
-1.50	(1,50) .059	(3,58) .141
-2.50	(2,50) .098	(4,58) .180

**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.

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