



(0,50 mm) .0197"

ST5-20-1.50-L-D-P-TR

ST5-20-1.00-L-D-P-TR

ST5-10-1.00-L-D-P-TR

ST5 SERIES

# ULTRA FINE PITCH HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?ST5](http://www.samtec.com?ST5)

**Insulator Material:**

Black LCP

**Contact Material:**

Phosphor Bronze

**Plating:**

Au or Sn over

50µ" (1,27 µm) Ni

**Operating Temp Range:**

-55°C to +125°C

**Current Rating:**

1.5 A per pin

(1 pin powered per row)

**RoHS Compliant:**

Yes

**Processing:**

Lead-Free Solderable:

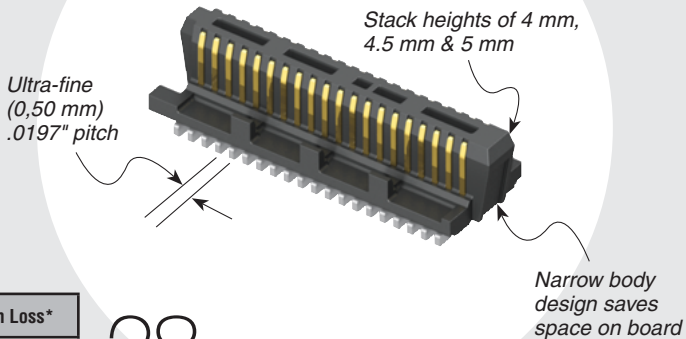
Yes

**SMT Lead Coplanarity:**

(0,10 mm) .004" max

Mates with:

SS5



28+  
Gbps

SS5/ST5 5 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	13.5 GHz / 27 Gbps
Differential Pair Signaling	20 GHz / 40 Gbps

\*Test board losses de-embedded from performance data.  
Performance data for other stack heights and complete test data available at [www.samtec.com?ST5](http://www.samtec.com?ST5) or contact [sig@samtec.com](mailto:sig@samtec.com)

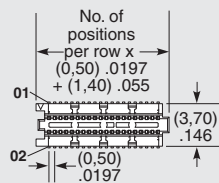
## ALSO AVAILABLE (MOQ Required)

- Other lead styles
- Contact Samtec.

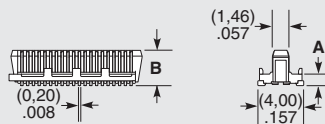
ST5	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	D	P	TR
	-10, -15, -20, -30, -40, -50, -60, -70, -80 (Per Row)	-1.00 = 1.00 mm -1.50 = 1.50 mm	-L = 10µ" (0,25 µm) Gold on contact, Matte Tin on tail	(Required in callout)	-P = Pick & Place Pad	(Required in callout) -TR = Tape & Reel

MATED HEIGHT*		
ST5 LEAD STYLE	SS5 LEAD STYLE	
	-3.00	-3.50
-1.00	(4,00) .157	(4,50) .177
-1.50	(4,50) .177	(5,00) .197

\*Processing conditions will affect mated height.



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



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