F-215 (Rev 30JUN15)

samtec

RAZOR BEAM™ SYSTEM LP

(0.40 mm) .0158"


ST4–10–1.00–L–D–P–TR


ST4–30–1.00–L–D–P–TR


ST4–40–1.00–L–D–P–TR


ST4–20–2.50–L–D–P–TR

ST4 SERIES

ULTRA FINE PITCH HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?ST4

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:
1.6 A per pin
(1 pin powered per row)
RoHS Compliant:
Yes

Processing:

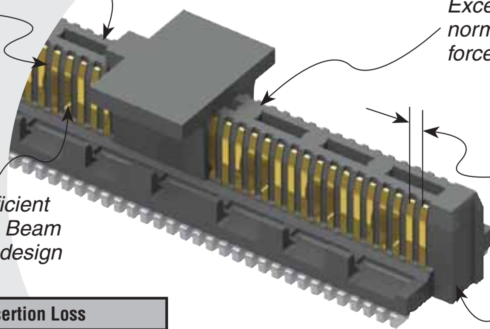
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

Mates with:
SS4



SS4/ST4 4 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	7.0 GHz / 14 Gbps	13.5 GHz / 27 Gbps
Differential Pair Signaling	4.5 GHz / 9 Gbps	15.5 GHz / 31 Gbps

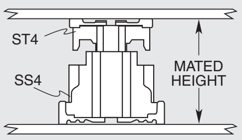
*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at www.samtec.com?ST4 or contact sig@samtec.com

Final Inch® CERTIFIED | 28+ Gbps

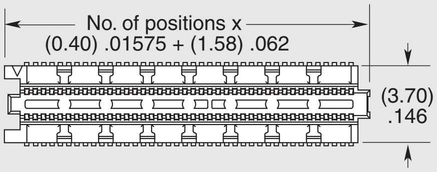
ST4	– POSITIONS PER ROW	– LEAD STYLE	– PLATING OPTION	– D	– P	– TR
	–10, –20, –30, –40, –50	**–1.00** = 1.00 mm **–1.50** = 1.50 mm **–2.50** = 2.50 mm	**–L** = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		(Required in callout) **–P** = Pick & Place Pad	(Required in callout) **–TR** = Tape & Reel

MATED HEIGHT

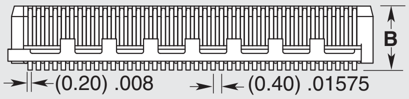


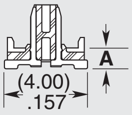
MATED HEIGHT*		
ST4 LEAD STYLE	SS4 LEAD STYLE	
	–3.00	–3.50
–1.00	(4.00) .157	(4.50) .177
–1.50	(4.50) .177	(5.00) .197
–2.50	(5.50) .217	(6.00) .236

*Processing conditions will affect mated height.



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.