samtec

RAZOR™ BEAM LP SYSTEM

SS5−10−3.00−L−D−K−TR

ST5−20−1.50−L−D−P−TR

SS5−20−3.00−L−D−K−TR

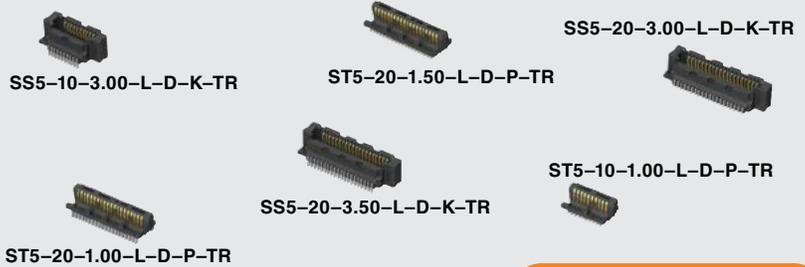SS5−20−3.50−L−D−K−TR

ST5−10−1.00−L−D−P−TR

ST5−20−1.00−L−D−P−TR

(0.50 mm) .0197"

SS5, ST5 SERIES

ULTRA-FINE PITCH SOCKET

SS5 Mates with:
ST5

ST5 Mates with:
SS5

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SS5 or www.samtec.com?ST5

Insulator Material:
Black LCP
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over
50 µ" (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

RECOGNITIONS

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

®
FILE NO. E111594

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

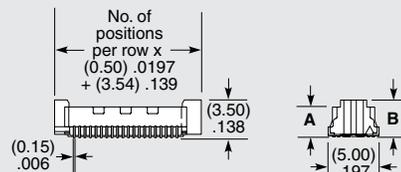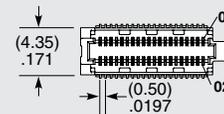*Processing conditions will affect mated height.

ALSO AVAILABLE
(MOQ Required)

• Other lead styles
Contact Samtec.

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

| SS5 | − | NO. OF POSITIONS | − | LEAD STYLE | − | PLATING OPTION | − | D | − | K | − | TR |

NO. OF POSITIONS
−10, −15, −20, −30, −40, −50, −60, −70, −80
(Per Row)

LEAD STYLE
−3.00 = 3.00 mm
−3.50 = 3.50 mm

PLATING OPTION
−L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail

K (Required in callout)
−K = (3.50 mm) .138" DIA Polyimide Film Pick & Place Pad

TR (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

(4.35) .171

(0.50) .0197

01
02

No. of positions per row x (0.50) .0197 + (3.54) .139

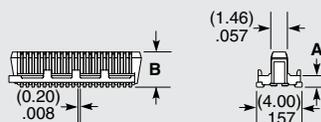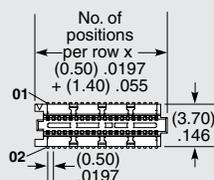(3.50) .138

(0.15) .006

A B

(5.00) .197

HIGH-SPEED CHANNEL PERFORMANCE

SS5/ST5 @ 4 mm Mated Stack Height
Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

34 Gbps

| ST5 | − | NO. OF POSITIONS | − | LEAD STYLE | − | PLATING OPTION | − | D | − | P | − | TR |

NO. OF POSITIONS
−10, −15, −20, −30, −40, −50, −60, −70, −80
(Per Row)

LEAD STYLE
−1.00 = 1.00 mm
−1.50 = 1.50 mm

PLATING OPTION
−L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail

P (Required in callout)
−P = Pick & Place Pad

TR (Required in callout)
−TR = Tape & Reel

No. of positions per row x (0.50) .0197 + (1.40) .055

01
02

(3.70) .146

(0.50) .0197

(1.46) .057

A

(0.20) .008

B

(4.00) .157

LEAD STYLE	A	B
−1.00	(1.00) .039	(3.08) .121
−1.50	(1.50) .059	(3.58) .141

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