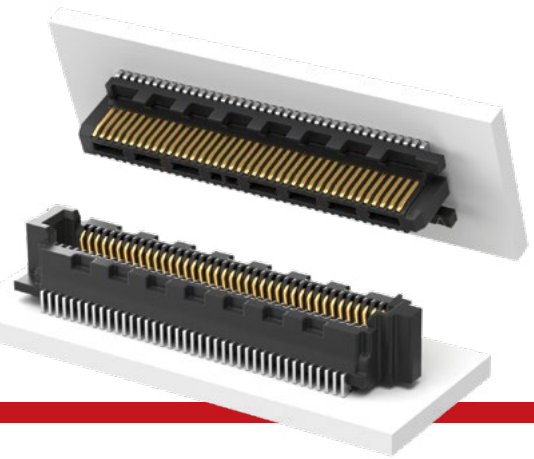


# MICRO BLADE & BEAM SOCKET & HEADER

28  
Gbps

(0.40 mm) .0158" PITCH • SS4/ST4 SERIES



**SS4**  
Mates:  
ST4

**ST4**  
Mates:  
SS4

## SPECIFICATIONS

**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:**  
1.6 A per pin  
(2 pins powered)

## PROCESSING

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

SS4	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	K	"X"R
-----	-------------------	------------	----------------	---	---	------

-10, -20,  
-30, -40, -50

-3.00  
= 3.00 mm

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

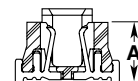
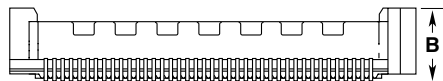
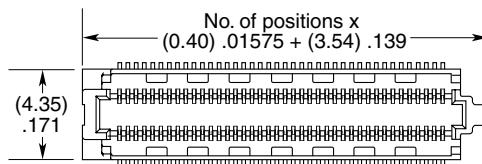
(Required in callout)

-K  
= (3.50 mm)  
.138" DIA  
Polyimide  
Film  
Pick &  
Place Pad

(Required in callout)

-TR  
= Tape & Reel

-FR  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec for  
quantity breaks)



LEAD STYLE	A	B
-3.00	(2.85) .112	(3.50) .138
-3.50	(3.35) .132	(4.00) .157

ST4	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	P	"X"R
-----	-------------------	------------	----------------	---	---	------

-10, -20,  
-30, -40, -50

-1.00  
= 1.00 mm

-1.50  
= 1.50 mm

-2.50  
= 2.50 mm

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

(Required in callout)

-P  
= Pick &  
Place Pad

(Required in callout)

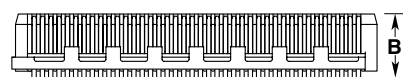
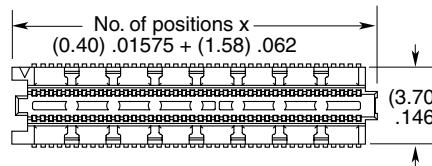
-TR  
= Tape & Reel

-FR  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec for  
quantity breaks)

## MATED HEIGHT \*

ST4 LEAD STYLE	SS4 LEAD STYLE	
	-3.00	-3.50
-1.00	(4.00 mm) .157"	(4.50 mm) .177"
-1.50	(4.50 mm) .177"	(5.00 mm) .197"
-2.50	(5.50 mm) .217"	(6.00 mm) .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.

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