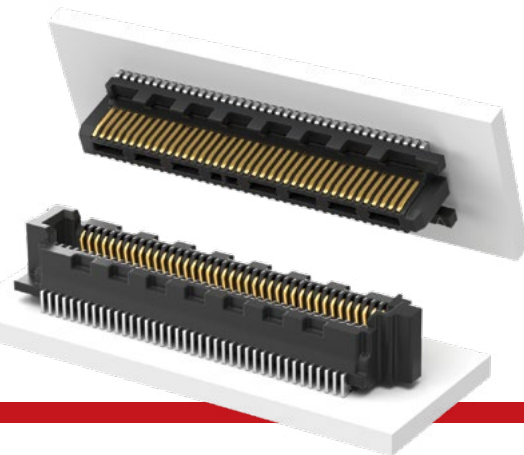


# MICRO BLADE & BEAM SOCKET & HEADER

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

28  
Gbps



**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

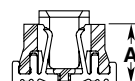
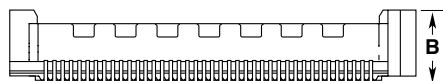
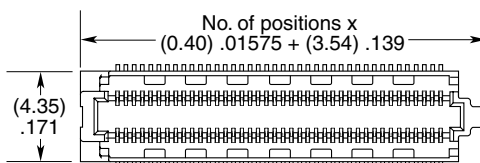
**Lead-Free Solderable:**

Yes

**SMT Lead Coplanarity:**

(0.10 mm) .004" max

| SS4 | POSITIONS PER ROW          | LEAD STYLE                                   | PLATING OPTION                                                      | D | K                                                                                                       | "X"R                                                                                                                                                                           |
|-----|----------------------------|----------------------------------------------|---------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | -10, -20,<br>-30, -40, -50 | -3.00<br>= 3.00 mm<br><br>-3.50<br>= 3.50 mm | -L<br>= 10 μ"<br>(0.25 μm)<br>Gold on contact,<br>Matte Tin on tail |   | (Required in callout)<br><br>-K<br>= (3.50 mm)<br>.138" DIA<br>Polyimide<br>Film<br>Pick &<br>Place Pad | (Required in callout)<br><br>-TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel<br>Tape & Reel<br>(must order max.<br>quantity per reel;<br>contact Samtec for<br>quantity breaks) |



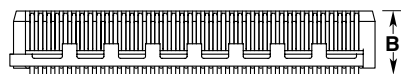
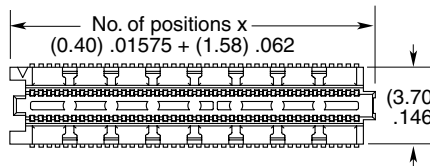
| LEAD STYLE | A              | B              |
|------------|----------------|----------------|
| -3.00      | (2.85)<br>.112 | (3.50)<br>.138 |
| -3.50      | (3.35)<br>.132 | (4.00)<br>.157 |

| ST4 | POSITIONS PER ROW          | LEAD STYLE                                                             | PLATING OPTION                                                      | D | P                                                        | "X"R                                                                                                                                                                           |
|-----|----------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|---|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | -10, -20,<br>-30, -40, -50 | -1.00<br>= 1.00 mm<br><br>-1.50<br>= 1.50 mm<br><br>-2.50<br>= 2.50 mm | -L<br>= 10 μ"<br>(0.25 μm)<br>Gold on contact,<br>Matte Tin on tail |   | (Required in callout)<br><br>-P<br>= Pick &<br>Place Pad | (Required in callout)<br><br>-TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel<br>Tape & Reel<br>(must order max.<br>quantity per reel;<br>contact Samtec for<br>quantity breaks) |

## MATED HEIGHT \*

| ST4<br>LEAD<br>STYLE | SS4 LEAD STYLE     |                    |
|----------------------|--------------------|--------------------|
|                      | -3.00              | -3.50              |
| -1.00                | (4.00 mm)<br>.157" | (4.50 mm)<br>.177" |
| -1.50                | (4.50 mm)<br>.177" | (5.00 mm)<br>.197" |
| -2.50                | (5.50 mm)<br>.217" | (6.00 mm)<br>.236" |

\*Processing conditions will affect mated height.



| LEAD STYLE | A              | B              |
|------------|----------------|----------------|
| -1.00      | (1.00)<br>.039 | (3.08)<br>.121 |
| -1.50      | (1.50)<br>.059 | (3.58)<br>.141 |
| -2.50      | (2.50)<br>.098 | (4.58)<br>.180 |

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

[samtec.com?SS4](http://samtec.com?SS4) or [samtec.com?ST4](http://samtec.com?ST4)

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Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

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Authorized Distributor

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