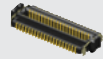


STH-020-0.50-G-D-A-TR



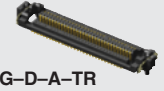
STH-030-1.00-G-D-A-TR



SSH-020-2.00-G-D-A-TR



SSH-030-1.50-G-D-A-TR



SSH, STH SERIES

(0,50 mm) .0197"

# ULTRA LOW PROFILE HEADER & SOCKET

SSH Mates with:  
STH

STH Mates with:  
SSH

## SPECIFICATIONS

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

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact Material:**  
Copper Alloy  
**Weld Tab:**  
Bronze  
**Plating:**  
Au over 50µ" (1,27 µm) Ni  
**Current Rating:**  
1.8 A per pin  
(1 pin powered per row)  
**Operating Temp Range:**  
-55°C to +125°C  
**RoHS Compliant:**  
Yes

**Processing:**  
Lead-Free Solderable:  
Yes  
SMT Lead Coplanarity:  
(0,10 mm) .004" max

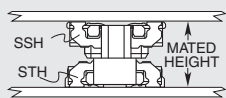
## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## MATED HEIGHT



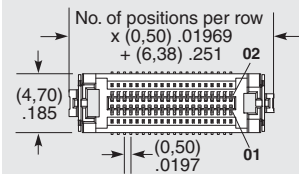
| MATED HEIGHT*  |                |                |
|----------------|----------------|----------------|
| SSH LEAD STYLE | STH LEAD STYLE |                |
|                | -0.50          | -1.00          |
| -1.50          | (2,00)<br>.079 | (2,50)<br>.098 |
| -2.00          | (2,50)<br>.098 | (3,00)<br>.118 |

\*Processing conditions will affect mated height.

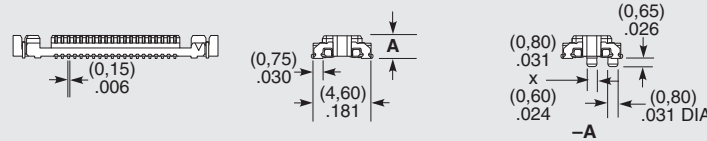
Note: Patent Pending

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

|            |                                      |  |                                       |          |  |                             |
|------------|--------------------------------------|--|---------------------------------------|----------|--|-----------------------------|
| <b>SSH</b> | <b>NO. OF POSITIONS</b>              | <b>LEAD STYLE</b>                                      | <b>PLATING OPTION</b>                 | <b>D</b> | <b>OPTION</b>  | <b>TR</b>                   |
|            | <b>-010, -020, -030</b><br>(Per Row) | <b>-1.50</b><br>= 1.50 mm<br><b>-2.00</b><br>= 2.00 mm | <b>-G</b><br>= 10µ" (0,25 µm)<br>Gold |          | <b>-A</b><br>= Alignment Pin<br><b>-K</b><br>= (3,00 mm) .118" DIA<br>Polyimide Film<br>Pick & Place Pad | <b>-TR</b><br>= Tape & Reel |



| LEAD STYLE | A              |
|------------|----------------|
| -1.50      | (1,83)<br>.072 |
| -2.00      | (2,33)<br>.092 |

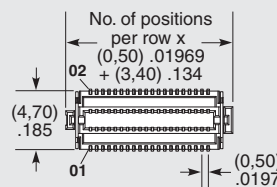


| SSH/STH 2 mm Stack Height   | Rated @ 3dB Insertion Loss* |
|-----------------------------|-----------------------------|
| Single-Ended Signaling      | 18.5 GHz / 37 Gbps          |
| Differential Pair Signaling | 16.5 GHz / 33 Gbps          |

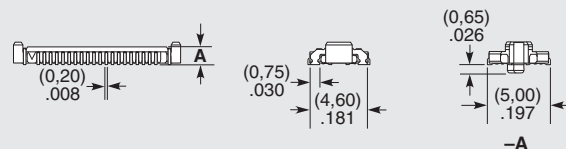
\*Test board losses de-embedded from performance data.  
Performance data for other stack heights and complete test data available at [www.samtec.com?SSH](http://www.samtec.com?SSH), [www.samtec.com?STH](http://www.samtec.com?STH) or contact [sig@samtec.com](mailto:sig@samtec.com)

28+  
Gbps

|            |                                      |  |                                       |          |  |                             |
|------------|--------------------------------------|--|---------------------------------------|----------|--|-----------------------------|
| <b>STH</b> | <b>NO. OF POSITIONS</b>              | <b>LEAD STYLE</b>                                      | <b>PLATING OPTION</b>                 | <b>D</b> | <b>OPTION</b>  | <b>TR</b>                   |
|            | <b>-010, -020, -030</b><br>(Per Row) | <b>-0.50</b><br>= 0.50 mm<br><b>-1.00</b><br>= 1.00 mm | <b>-G</b><br>= 10µ" (0,25 µm)<br>Gold |          | <b>-A</b><br>= Alignment Pin<br><b>-K</b><br>= (3,00 mm) .118" DIA<br>Polyimide Film<br>Pick & Place Pad | <b>-TR</b><br>= Tape & Reel |



| LEAD STYLE | A              |
|------------|----------------|
| -0.50      | (1,43)<br>.056 |
| -1.00      | (1,93)<br>.076 |



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