

Series: TLH/SLH

Description: Razor Beam™ Ultra Low Profile Terminal/Socket Strip, 0.5mm Pitch, 2mm Stack Height

Connector Overview

The 0.5mm (0.0197") pitch interconnect TLH/SLH Series (formally the STH/SSH series) has been designed in 10, 20, 30, 40, and 50 positions per row. The TLH/SLH series board-to-board spacing is currently available in 2mm (0.079"), 2.5mm (0.098") and 3mm (0.118") stack height. The data in this report is applicable only to the 2mm board-to-board mated connector stack height.

Connector System Speed Rating

TLH/ SLH Series, Board-to-Board, 0.5mm Pitch, 2mm Stack Height

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	18.5GHz/ 37Gbps
Differential:	16.5GHz/ 33Gbps

The Speed Rating is based on the -3 dB insertion loss point of the connector system. The -3 dB point can be used to estimate usable system bandwidth in a typical, two-level signaling environment.

To calculate the Speed Rating, the measured -3 dB point is rounded-up to the nearest half-GHz level. The up rounding corrects for a portion of the test board's trace loss, since a short length of trace loss included in the loss data in this report. The resulting loss value is then doubled to determine the approximate maximum data rate in Gigabits per second (Gbps).

For example, a connector with a -3 dB point of 7.8 GHz would have a Speed Rating of 8 GHz/ 16 Gbps. A connector with a -3 dB point of 7.2 GHz would have a Speed Rating of 7.5 GHz/ 15 Gbps.