

Series: LSH-LTH Socket/Terminal Strip

Description: 0.5mm (.0197") Centerline, Low Profile Board-to-Board

Connector Overview

The 0.5MM (.0197") pitch low profile socket blade & beam series is available in 10, 20, 30, 40, and 50 contacts per row. The LSH/LTH series is surface mount, double row with friendly low profile mating and alignment characteristics. Data presented in this report is applicable only to the low profile LSH/LTH connector series.

Connector System Speed Rating

LSH/LTH Series, 0.5MM (.0195") Centerline, Surface Mount, Double Row Vertical, Low Profile (\approx 2mm), Blade and Beam Contact System,

Signaling

Speed Rating

Single-Ended:

7.5GHz / 15 Gbps

Differential:

4.5GHz / 9 Gbps

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 trace losses are 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.