

Series: SS4/ST4

Description: Razor Beam™ Low Profile Terminal/Socket Strip, 0.4mm Pitch, 4mm Stack Height

Connector Overview

The 0.4 mm (0.0155") pitch Razor Beam™ LP Ultra-Fine Pitch Low Profile Terminal/Socket Strip (SS4/ST4 Series) interconnects are available in 10, 15, 20, 30, 40 and 50 positions per row. The SS4/ST4 series board-to-board spacing is available in a 4mm (0.157"), 4.5mm (0.177"), 5mm (0.197"), 5.5mm (0.217") and 6mm (0.236") stack heights. The data in this report is applicable only to the 4mm board-to-board mated connector stack height.

Connector System Speed Rating

SS4/ST4 Series, Board-to-Board, 0.4mm Pitch, 4mm Stack Height

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	13.5GHz/ 27Gbps
Differential:	15.5GHz/ 31Gbps

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.