

Series: FSI Series

Description: One Piece Board Stacking Interconnect, 1.0mm Pitch, 10mm (0.394") Body Height

Connector Overview

FSI 1.0 mm (.0394") pitch interfaces are available with up to 100 I/Os (100 for double rows and 50 for single row) and with standard body height of 3mm (0.118"), 6mm (0.236"), and 10mm (0.394"). The data in this report is applicable only to the 10mm (0.394") body height version for both double rows and single row.

Connector System Speed Rating

One Piece Board Stacking Interconnect, 1.0mm Pitch, 10mm (0.394") Body Height

Signaling

Speed Rating

Single-Ended:

5GHz/ 10Gbps

Differential:

6GHz/ 12Gbps

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.