Series: SFM/TFM
Description: Micro Board-to-Board, 1.27mm Pitch, 6.35mm (0.250”) Stack Height

Connector Overview

Micro 1.27mm (.050”) pitch interfaces (SFM/TFM Series) are available with up to 50 contacts per row and board-to-board spacings of 4.57mm (0.1799"), 6.35mm (0.250"), 8.13mm (0.320"), 9.91mm (0.390") and 11.81mm (0.465") between boards. The data in this report is applicable only to the 6.35mm (0.250")board-to-board stack height version.

Connector System Speed Rating

SFM/TFM Series, Micro Board-to-Board, 1.27 mm Pitch, 6.35 mm (0.250") Stack Height

Signaling	Speed Rating
Single-Ended:	**6 GHz / 12 Gbps**
Differential:	**7 GHz / 14 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.