

Series: ERF8/ERM8

Description: Edge Rate Strip, 0.8mm (0.0315") Pitch, 16mm (0.630") Stack Height

Connector Overview

Edge Rate Strip Series 0.8mm (0.0315") pitch interfaces (ERF8/ERM8 Series) are available in 5, 10, 11, 13, 20, 25, 30, 35, 40, 49, 50, 60, 70, 75 and 100 positions per row. ERF8/ERM8 series board-to-board spacing is available in a 7mm (0.276"), 9mm (0.354"), 10mm (0.394"), 12mm (0.472"), 13mm (0.512"), 14mm (0.551"), 15mm (0.579"), 16mm (0.630"), 18mm (0.709"), 19mm (0.748"), 20mm (0.787"), 22mm (0.866") and 25mm (0.984") stack height. The data in this report is applicable only to the 16mm (0.630") board-to-board mated connector stack height.

Connector System Speed Rating

ERF8/ERM8 Series, Edge Rate Strip Series Board-to-Board, 0.8mm (0.0315") Pitch, 16mm (0.630") Stack Height

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	16GHz/ 32Gbps
Differential:	20GHz/ 40Gbps

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.