

Series: MEC1 Series

Description: Vertical Surface Mount, 1.0mm (.03937") Pitch, Mates w/ 1.60mm (.062") cards

Connector Overview

Mini Edge –Card 1.0mm (.03937") pitch socket connectors (MEC1 Series) are double row structures with up to 70 contacts per row. The MEC1 connector is available in a vertical, right angle or edge body mount style designed for use with 1.60mm edge-card thicknesses. Applications can include board-to-board or cable-to-board. The electrical characteristics reported are specific to a MEC1 vertical surface mount socket connector mated with to a 1.0mm pitch, 1.60mm (.062") thickness edge-card.

Connector System Speed Rating

MEC1 Series, 1.0mm (.03937") Pitch Socket, Vertical Surface Mount

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	5.5 GHz / 11 Gbps
Differential:	6.5 GHz / 13 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.