

Series: MEC6

Description: Vertical Surface Mount, 0.635mm (.025") Pitch, Mates w/ 1.60mm (.062") card

Connector Overview

Micro 0.635 mm (.025") pitch interfaces (MEC6 Series) are double row structures with up to 70 contacts per row. The MEC6 connector is available in a vertical and right angle body style. Connector styles both have the 1.60mm (.062") edge card thickness mating option. Applications can include board-to-board via riser edge card or cable-to-board. Electrical characteristics reported are specific to the .635mm pitch, MEC6 vertical surface mount connector mated with a 1.60mm () thickness edge card.

Connector System Speed Rating

MEC6 Series, 0.635mm (.025") Pitch Interface, Vertical Surface Mount

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	7.5 GHz / 15 Gbps
Differential:	7.0 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.