

Series: MEC5-RA

Description: High Speed Mini Edge Card Connector, Right-Angle, SMT Tails, 0.5mm (.0197") Pitch, Mates with 1.60mm (.062") thick cards

Connector Overview

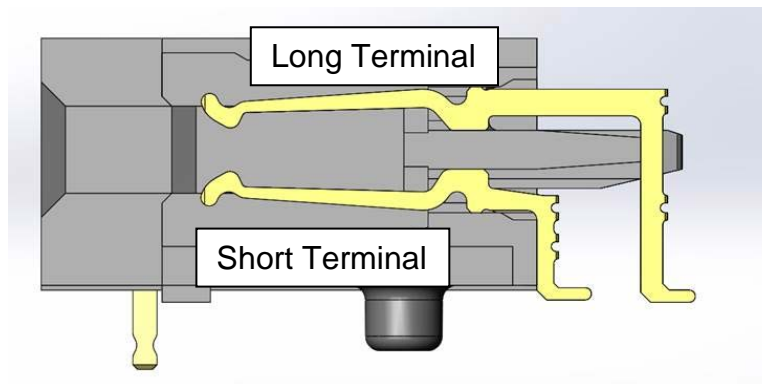
The MEC5-RA series is a double row, mini edge-card socket connector on a 0.5mm (.0197") pitch and available up to 160 pins. The data in this report is applicable only to MEC5-RA socket connector mated to 1.6mm thick card.

This is a two terminals type right angle connector and each terminal has slightly different performance, which is documented in this report. The terminology used in this report to define which connector terminal is as follows:

*The short terminal of the connector

*The long terminal of the connector

This is illustrated in the following figure.



Connector System Speed Rating

MEC5-RA Series, 0.5mm (.0197") Pitch Interface, Right-Angle,

<u>Signaling</u>	<u>Speed Rating</u>
Differential Short Row (85 Ohm):	19GHz
Differential Long Row (85 Ohm):	17.5GHz
Differential Short Row (100 Ohm):	19GHz
Differential Long Row (100 Ohm):	16.5GHz

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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.

For example, a connector with a -3 dB point of 7.8 GHz would have a Speed Rating of 8 GHz. A connector with a -3 dB point of 7.2 GHz would have a Speed Rating of 7.5 GHz.