

Series: MEC6-RA

Description: Mini Edge-Card Socket, Right Angle, Surface Mount,
0.635mm (0.025") Pitch, Mated with 1.60mm (0.062") thick load card

Connector Overview

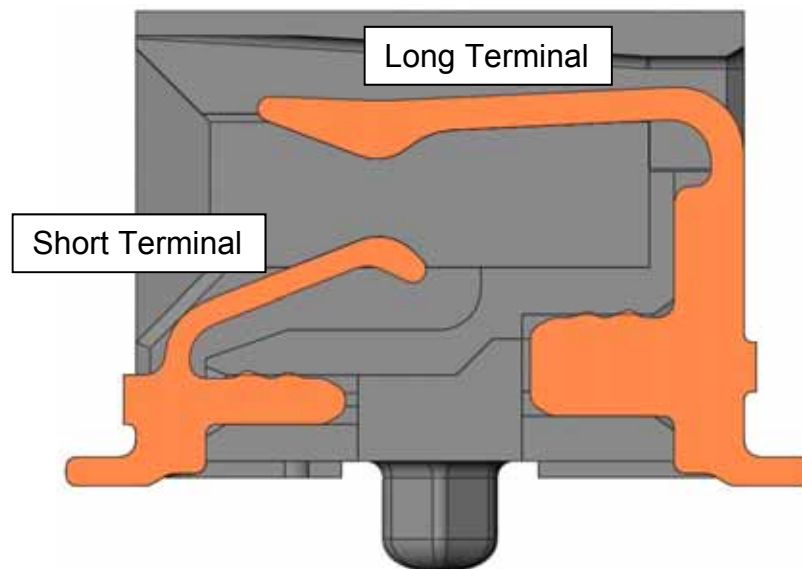
The MEC6-RA series is a double row, mini edge-card socket connector on a 0.635mm (0.0250") pitch and available up to 100 pins. The data in this report is applicable only to MEC6 right angle socket connector mated to a 1.6mm thick card.

MEC6-RA possesses two terminal types, with each terminal type having different performance. The signal integrity performance of these two terminal types 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 is referred to as "Case 1"

*The long terminal of the connector is referred to as "Case 2"

This is illustrated in the following figure.



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Connector System Speed Rating

MEC6-RA Mini Edge-Card Series, 0.635mm Pitch, mates to 1.6mm thick card

<u>Case</u>	<u>Signaling</u>	<u>Speed Rating</u>
1 (Short Row)	Single-Ended:	10 GHz/ 20 Gbps
	Differential:	11 GHz/ 22 Gbps
2 (Long Row)	Single-Ended:	7.5 GHz/ 15 Gbps
	Differential:	7.5 GHz/ 15 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 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.