

Series: MTCA-SMT

Description: Micro TCA Connector, 0.75mm Pitch, Surface-Mount

Connector Overview

Micro TCA series (MTCA) are capable of mating to 1.60mm thick cards (edge cards). The MTCA series are available with up to 170 pins. The MTCA series have Through Hole and Surface Mount lead styles. The data in this report is applicable only to the Surface Mount lead style.

Connector System Speed Rating

Micro TCA Connector, 0.75mm Pitch

Signaling

Speed Rating

Single-Ended:

12GHz/ 24Gbps

Differential:

11.5GHz/ 23Gbps

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.