

Series: QFS/QMS

Description: Micro High Speed Board-to-Board, 0.635mm Pitch, 14mm (0.5512") Stack Height

Connector Overview

Micro High Speed 0.635mm (0.0250") pitch interfaces (QFS/QMS Series) are available with up to 104 contacts per row. QFS/QMS series board-to-board spacing is available in a 10mm (0.3935"), 11mm (0.4330"), 12mm (0.4724"), 13mm (0.5118"), 14mm (0.5512") and 16mm (0.630") stack height. The data in this report is applicable only to the 14mm (0.5512") board-to-board mated connector stack height.

Connector System Speed Rating

QFS/QMS Series, Micro High Speed Board-to-Board, 0.635mm Pitch, 14mm (0.5512") Stack Height

Signaling

Speed Rating

Single-Ended:

11GHz/ 22Gbps

Differential:

7GHz/ 14Gbps

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.