Series: QMSS/QFSS
Description: Shielded Q2 Socket/Terminal Strip, GSSSSG Standard Shield Configuration, 0.635mm (.025") Pitch, 11mm (.433") Stack Height

Connector Overview

The 0.635mm (.025") centerline socket (QFSS) and terminal (QMSS) strip series is available with 52, 104, 156, and 208 total pins per connector set. It is hot pluggable with the shields and ground planes mating first followed by the signal pins. Standard shield grounding is GSSSSG. Q2 is surface mount, double row connector that when mated, equals an 11mm (.433") board-to-board stack height. The data presented in this report is applicable only to the QFSS /QMSS 0.635mm centerline; 11mm stack height Q2 series.

Connector System Speed Rating

Q2 Series, 0.635mm (.025") Centerline, Surface Mount, Double Row Vertical, Gold Plating, GSSSSG shield configuration

Signaling	Speed Rating
Single-Ended:	**6.0 GHz / 12Gbps**
Differential:	**7.0 GHz / 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 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.