

Series: QSS-RA/QTS-RA Series

Description: , 0.635mm (0.0250") Pitch, Two Row, Right Angle to Right Angle Connection

Connector Overview

Micro High Speed Q Strip interfaces (QSS-RA socket & QTS-RA terminal) are available up to 125 contacts per row. QSS/QTS series connectors include double row vertical, right angle and edge-mount styles. The data presented in this report is applicable only to a QSS right angle socket connector mated with a QTS right angle terminal connector.

Connector System Speed Rating

QSS-RA / QTS-RA Series, 0.635mm (0.0250") Centerline, QSS right angle socket mated to a QTS right angle terminal connector

<u>Signaling</u>		<u>Speed Rating</u>
Single-Ended:	Long Path, Row 1	4.5 GHz / 9Gbps
	Short Path, Row 2	4.0 GHz / 8Gbps
Differential:	Long Path, Row 1	3.5 GHz / 7Gbps
	Short Path, Row 2	4.5 GHz / 9Gbps

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.