

Series: BTH/BSH Right Angle

Description: Basic Blade & Beam Terminal and Socket, 0.5mm (.0197") Pitch

Connector System Speed Rating

BTH/BSH Series Basic Blade & Beam Terminal and Socket, Right Angle, 0.5mm (.0197") Pitch

<u>Case</u>	<u>Signaling</u>	<u>Speed Rating</u>
1 (Short Row)	Single-Ended:	6.0 GHz/ 12 Gbps
	Differential:	6.5 GHz/ 13 Gbps
2 (Long Row)	Single-Ended:	4.0 GHz/ 8 Gbps
	Differential:	3.5 GHz/ 7 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.