**Series:** TEM/SEM
**Description:** Micro Tiger Eye™ Board-to-Board 0.8mm Pitch, 6 mm (0.236”) stack height

## Connector Overview

Micro Tiger Eye™ 0.8mm (.0315”) pitch interfaces (TEM/SEM Series) are available with up to 100 I/Os and with standard board-to-board spacing of 6mm (0.236"), 7mm (0.276"), and 10mm (0.394") between boards. The data in this report is applicable only to the 6mm (0.236") board-to-board stack height version.

## Connector System Speed Rating

TEM/SEM Series Micro Tiger Eye™ Board-to-Board 0.8mm Pitch, 6 mm (0.236”) stack

| Signaling | Speed Rating |
|---|---|
| Single-Ended: | **12GHz/ 24Gbps** |
| Differential: | **17GHz/ 34Gbps** |

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.