

**Series:** IJ5/IP5

**Description:** IsoRate, 4.0mm (.157") Pitch, 10mm (.397") Stack Height

## Connector Overview

The 4mm (0.157") pitch jack (IJ5) and plug (IP5) provides 1, 2, 4 or 8 positions per row. The IP5/IJ5 Series is a through-hole mount with single and double row options. When mated, the IP5/IJ5 system provides a 10mm (0.394") stack height. The data presented in this report is applicable only to the 4mm pitch; 10 mm stack height IP5/IJ5 Series.

## Connector System Speed Rating

IP5/IJ5, 4mm Centerline, Through Hole Vertical

Signaling

Single-Ended:

Speed Rating

**10.5 GHz / 21 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 used which includes the connector, the connector footprint and approximately 200 mils of test board trace. 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.