

Series: HSEC8-DV

Description: High Speed Edge Card Socket, Vertical Surface Mount,
0.8mm (0.0315") Pitch, Mated with 1.60mm (.062") thick load card

Connector Overview

The HSEC8 series is a double row, high-speed edge-card socket connector on a 0.8mm pitch and available up to 100 pins per row. The HSEC8 offers vertical surface mount, right angle surface mount, and edge-mount tail options.

Applications can include board-to-board via riser edge card or cable-to-board. Data in this report is applicable only to a vertical surface mount to edge card application.

Connector System Speed Rating

HSEC8 Series, 0.8mm (.0315") Pitch Interface, Vertical Surface-Mount

<u>Signaling</u>	<u>Speed Rating</u>
Single-Ended:	17GHz/ 34Gbps
Differential:	15.5GHz/ 31Gbps

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.