

**Series:** Terminal/Socket LSS Series

**Description:** 0.635mm (.025") Pitch, 8mm (0.3150") Stack Height

## Connector Overview

Locking Terminal/Socket Strip connectors are hermaphroditic (.0315") pitch interfaces called the LSS Series and are available in up to 50 contacts per row. LSS Series board-to-board spacing is also available in 6mm (0.2362"), 7mm (0.2756"), 8mm (0.3150"), 9mm (0.3543"), 10mm (0.3937" and 12mm (0.4724") stack heights. The data in this report is applicable only to the 8mm (0.3150") board-to-board spacing.

## Connector System Speed Rating

Terminal/Socket LSS Series, 0.635mm (.025") Centerline, 8mm (0.3150") Board-To-Board Spacing

### Signaling

Single-Ended:

### Speed Rating

**8.0 GHz / 16 Gbps**

Differential:

**7.5 GHz / 15Gbps**

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.