

6 x 6 SoM TEM and SEM B2B Connectors

6 x 6 modules use two or three [Samtec Micro Tiger Eye Socket Strip](#) on the bottom side.

- 3 x REF-189018-01 (compatible to TEM-140-02-03.0-H-D-A), (80 pins, "40" per row)

Connector Specifications	Value
Insulator material	Black Liquid Crystal Polymer
Stacking height	6 mm
Contact material	Phosphor-bronze
Plating	Au or Sn over 50 " (1.27 m) Ni
Current rating	2.9 A per pin (2 pins powered)
Operating temperature range	-55 °C to +125 °C
RoHS compliant	Yes

Connector specifications.

Connector Mating height

When using the same type on baseboard, the mating height is 6mm. Other mating heights are possible by using connectors with a different height

Order number	Connector on baseboard	compatible to	Mating height
26056	REF-189018-01	TEM-140-02-03.0-H-D-A	6 mm
	SEM-140-02-03.0-H-D-A	TEM-140-02-03.0-H-D-A	6 mm

Connectors.

The module can be manufactured using other connectors upon request.

Connector Speed Ratings

The LSHM connector speed rating depends on the stacking height; please see the following table:

Stacking height	Speed rating
6 mm, Single-Ended	12 GHz
10 mm, Differential	17 GHz
6 mm, Single-Ended	14.5 GHz
10 mm, Differential	17.5 GHz

Speed rating.

Current Rating

Current rating of Samtec Micro Tiger Eye Connector™ LSHM B2B connectors is 2.9A per pin (2 adjacent pins powered).

Connector Mechanical Ratings

- Shock: 100G, 6 ms Sine

- Vibration: 7.5G random, 2 hours per axis, 3 axes total

Manufacturer Documentation

File	Modified
PDF File SEM-140-02-03.0-H-D-A.pdf	11 02, 2019 by Pedram Babakhani
PDF File TEM-140-02-03.0-H-D-A.pdf	11 02, 2019 by Pedram Babakhani

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