

4 x 6 SoM SS5/ST5 B2B Connectors

The module has a 160-pin double-row REF-192552-02 connector on the bottom side. The counterpart REF-192552-01 is placed on the base board.

Order number	REF Number	Samtec Number	Type	Mated Height	Data sheet	Comment
27220	REF-192552-02	ST5-80-1.50-L-D-P-TR	Module connector	5 mm	http://suddendocs.samtec.com/catalog_english/st5.pdf	Standard connector used on module
27219	REF-192552-01	SS5-80-3.50-L-D-K-TR	Baseboard connector	5 mm	http://suddendocs.samtec.com/catalog_english/ss5.pdf	Standard connector used on board

Connectors.

With different connectors from the used series other mating heights are possible (according to the [Datasheet](#)). The module and base board can be manufactured using other connectors upon request.

Connector Specifications	Value
Insulator material	Liquid crystal polymer
Stacking height	5 mm
Contact material	Phosphor-bronze
Plating	Au or Sn over 50 " (1.27 m) Ni
Current rating	1.6 A per pin (2 pins powered)
Operating temperature range	-55 °C to +125 °C
RoHS compliant	Yes

Connector specifications.

Connector Speed Ratings

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

Stacking height	Speed rating
5 mm, Single-Ended	13.5GHz / 27Gbps
5 mm, Differential	20GHz / 40Gbps
4 mm, Single-Ended	13GHz / 26Gbps
4 mm, Differential	13.5GHz / 27Gbps

Speed rating.

Current Rating

Current rating of Samtec Razor Beam™ SS5/ST5 B2B connectors is 1.6A per pin (2 pins powered).

Connector Mechanical Ratings

- Shock: 100G, 6 ms sawtooth wave
- Vibration: 7.56G 'RMS', 2 hours per axis, 3 axes total

Manufacturer Documentation

File	Modified
PDF File hsc-report-sma_st5-ss5-04mm_web.pdf	21 09, 2018 by Martin Rohrmüller
PDF File hsc-report-sma_st5-ss5-05mm_web.pdf	21 09, 2018 by Martin Rohrmüller
PDF File ss5_catalog.pdf	21 09, 2018 by Martin Rohrmüller
PDF File ss5-st5_specs.pdf	21 09, 2018 by Martin Rohrmüller

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