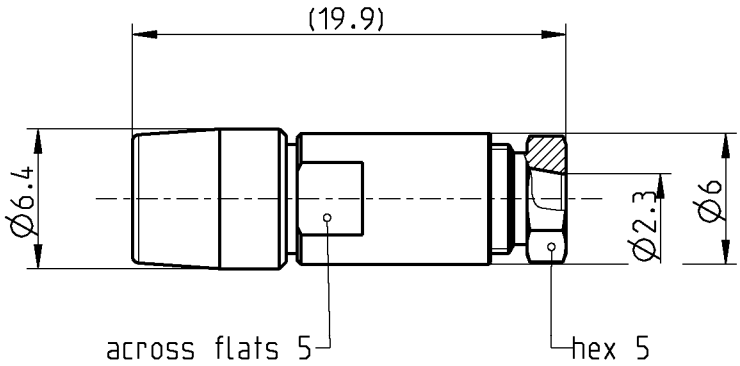
TECHNICAL DATA SHEET	Rosenberger
SMB STRAIGHT JACK	**59K101-001L5**



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to	IEC 60169-10, CECC 22130, US MIL-C-39012

Documents

Assembly instruction	59 A

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Beryllium copper	AuroDur
Outer contact	Beryllium copper	AuroDur
Body	Brass	Gold, 0.1 µm min.
Dielectric	PTFE	
Clamp Parts	Brass	Gold, 0.1 µm min.

RF_35/11.05/3.1

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Electrical data

Impedance	50 Ω
Frequency	DC to 4 GHz
Return loss	≥ 30 dB, DC to 1 GHz
	≥ 20 dB, 1 to 3 GHz
	≥ 18 dB, 3 to 4 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(GHz)}$ dB
Insulation resistance	$\geq 1 \times 10^3$ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 2.5 mΩ
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	≤ 250 V rms, 50 Hz, at sea level
Contact current	1.5 A DC typ.
RF-leakage	≥ 55 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 10 N
Engagement force	≤ 63 N
Disengagement force	8 N min. to 63 N max.

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

N/A

Suitable cables

RG 196 A/U, RG 178 B/U

Weight

Weight	2.9 g/pce

Draft	Date	Approved	Date
A. König	12/10/06	Sa. Krautenbacher	20.03.14

Rev.	Engineering change number	Name	Date
b00	14-0352	T. Krojer	20.03.14

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