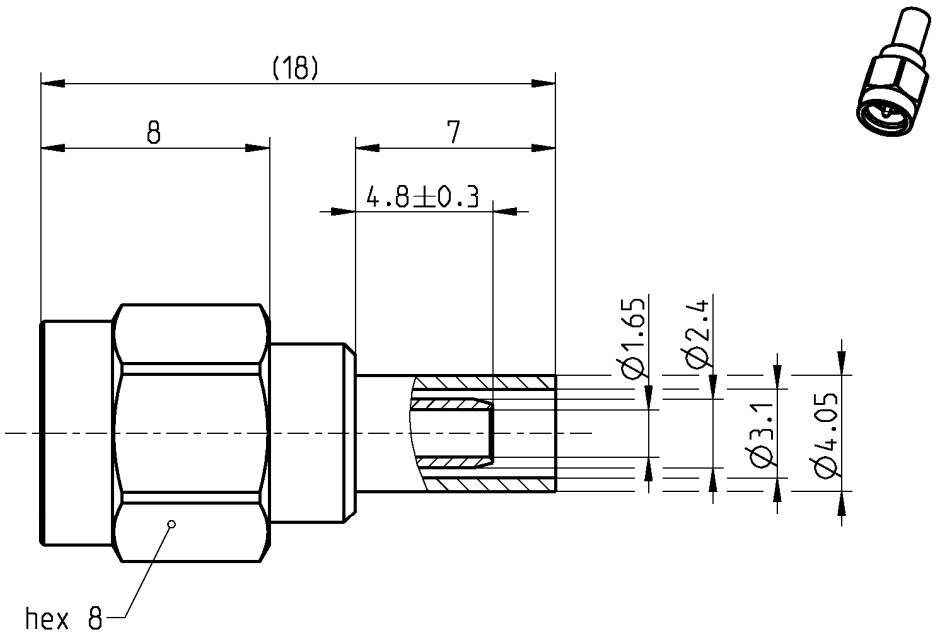
TECHNICAL DATA SHEET	Rosenberger
SMA STRAIGHT PLUG	**32S107-302L5**



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

Interface

According to	IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

Documents

Assembly instruction	32 B5

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated
Outer contact	CuBe or equivalent	AuroDur®, gold plated
Dielectric	PTFE	
Gasket	Silicone	
Coupling nut	CuBe or equivalent	Gold, 0.1 µm
Crimping ferrule	Copper	Gold, 0.1 µm

RF_35/12.04/3.0

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel.: +49 8684 18-0
Fax: +49 8684 18-499
email: info@rosenberger.de

TECHNICAL DATA SHEET	Rosenberger
SMA STRAIGHT PLUG	**32S107-302L5**

Electrical data

Impedance	50 Ω
Frequency	DC to 12.4 GHz
VSWR	≤ 1.05 + 0.01 x f [GHz], DC to 5 GHz
Insertion loss	≤ 0.03 x $\sqrt{f(GHz)}$ dB, DC to 5 GHz
Insulation resistance	≥ 5 x10^3 MΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 270 N
Center contact captivation: axial	≥ 27 N
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

Environmental data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-102

Suitable cables

RG 174 A/U, RG 188 A/U, RG 316 /U

Weight

Weight	2.95 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date
Rong Fang	10/03/04	Sa. Krautenbacher	17.03.14

Rev.	Engineering change number	Name	Date
f00	14-0352	T. Krojer	17.03.14

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel.: +49 8684 18-0
Fax: +49 8684 18-499
email: info@rosenberger.de