



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

Interface

According to	SMA side:	IEC 60169-15; EN 122110; MIL-STD-348
	7/16 side:	IEC 60169-4, VG 95250, CECC 22190, DIN 47223

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Gasket

Material

Brass
Brass
PTFE
Silicone

Plating

AuroDur, gold plated
Flash white bronze over silver(e.g. Optargen®)

Electrical data

Impedance	50 Ω	
Frequency	DC to 8.3 GHz	
Return loss	≥ 34 dB, DC to 2.5 GHz	
	≥ 21 dB, 2.5 to 8.3 GHz	
Insertion loss	≤ 0.03 x √f(GHz) dB	
Insulation resistance	≥ 5 x10 ³ MΩ	
Center contact resistance	≤ 3 mΩ, SMA side	≤ 0.4 mΩ, 7/16 side
Outer contact resistance	≤ 2 mΩ, SMA side	≤ 1.5 mΩ, 7/16 side
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	
Intermodulation (3 rd order)	≤ -120 dBm @ 2 x 20 W, 1800 MHz	

Mechanical data

	SMA side	7/16 side
Mating cycles	min. 100	min. 500
Coupling nut retention	N/A	≥ 1000 N
Center contact captivation: axial	≥ 200 N	≥ 200 N
Coupling test torque	max. 0.6 Nm	max. 35 Nm
Recommended torque	0.5 Nm	25 to 30 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

N/A

Suitable cables

N/A

Weight

Weight 102.7 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	Rev.	Engineering change number	Name	Date
M. Schmid	08/03/05	J_Krautenbacher	21.07.16	e00	15-1629	I_Wallner	21.07.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 email: info@rosenberger.de		Page 2 / 2