



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

Interface

According to SMC side: IEC 60169-9, CECC 22140, US MIL-C-39012
SMA side: IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact SMC side
Outer contact SMA side
Dielectric
Coupling nut SMA side
Gasket

Material

CuBe
Brass
CuBe
PTFE
CuBe or equivalent
Silicone

Plating

Auro Dur, gold plated
Auro Dur, gold plated
Auro Dur, gold plated
Gold, 0.1 μm

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 to 3 GHz ≥ 20 dB, 3 to 6 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 5 mΩ, SMC side ≤ 3 mΩ, SMA side
Outer contact resistance	≤ 2.5 mΩ, SMC side ≤ 2 mΩ, SMA side
Test voltage	750 V rms, 50 Hz, at sea level
Working voltage	≤ 250 V rms, 50 Hz, at sea level
RF-leakag	≥ 90 dB up to 1 GHz

Mechanical data

	SMC side	SMA side
Mating cycles	min. 500	min. 500
Coupling nut retention	N/A	≥ 270 N
Coupling test torque	max. 0.71 Nm	max. 1.7 Nm
Recommended torque	0.25 Nm to 0.35 Nm	0.8 Nm to 1.1 Nm
Center contact captivation: axial	≥ 10 N	≥ 10 N

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. D
Moisture resistance	MIL-STD-202, Meth. 106
Corrosion	MIL-STD-202, Meth. 101, Cond B

Tooling

N/A

Suitable cables

N/A

Weight

Weight 5.9 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
Inge Mühlauer	21/12/04	Sa. Krautenbacher	17.03.14	d00	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		Page 2 / 2