



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

Interface

According to N side: IEC 60169-16, MIL-PRF-39012, CECC 22210
C side: IEC 60169-7, MIL C-39012, VG 95240, DIN 47222

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact N side
Outer contact C side
Dielectric
Gasket
Coupling nut

Material

CuBe
Brass
Brass
PTFE
Silicone
Brass

Plating

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

**ADAPTOR
N 50 Ω PLUG – C JACK**

53S152-K00N5

Electrical data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
Return loss	≥ 35 dB, DC to 1 GHz	
	≥ 28 dB, 1 to 2 GHz	
	≥ 18 dB, 2 to 4 GHz	
Insertion loss	≤ 0.05 dB, DC to 4 GHz	
Insulation resistance	≥ 5 x10 ³ MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 1 mΩ, C side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 0.25 mΩ, C side
Test voltage	2500 V rms	
Working voltage	1000 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	400 W @ 1 GHz	

Mechanical data

	N side	C side
Mating cycles	min. 500	min. 500
Coupling nut retention	≥ 450 N	N/A
Center contact captivation: axial	≥ 28 N	≥ 28 N
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.7 Nm to 1.1 Nm	N/A

Environmental data

Temperature range	-55°C to +155°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. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in bag
Weight	39.9 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	08/06/04	Fellner A.	15.10.07	c00	07-0154	S_Kra.	15.10.07
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