



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

Interface

According to N side: IEC 61169-16, MIL-PRF-39012, CECC 22210
BNC side: IEC 61169-8, MIL-PRF-39012, CECC 22120

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact N side
Outer contact BNC side
Dielectric

Material

Beryllium copper
Brass
Brass
PTFE

Plating

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

**ADAPTOR
N 50 Ω JACK – BNC JACK**

53K151-K00N5

Electrical data

Impedance	50 Ω	
Frequency	DC to 10 GHz	
Return loss	≥ 35 dB, DC to 1 GHz	
	≥ 30 dB, 1 to 2 GHz	
	≥ 18 dB, 2 to 10 GHz	
Insertion loss	≤ 0.1 dB	
Insulation resistance	≥ 5 x10 ³ MΩ	
Center contact resistance	≤ 1 mΩ, N side	≤ 1.5 mΩ, BNC side
Outer contact resistance	≤ 0.25 mΩ, N side	≤ 1 mΩ, BNC side
Test voltage	1500 V rms	
Working voltage	400 V rms	
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz	

Mechanical data

	N side	BNC side
Mating cycles	min. 500	min. 500
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
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 32.7 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
Inge Mühlauer	22/06/04	Sa. Krautenbacher	18.03.14	f00	14-0352	T. Krojer	18.03.14
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