



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

Interface

According to	BNC side	IEC 61169-8, MIL-PRF-39012, CECC 22120
	TNC side	IEC 60169-17, MIL-PRF-39012, DIN EN 122200

Documents

N/A

Material and plating

Connector parts

- Center contact BNC and TNC side
- Outer contact BNC and TNC side
- Body
- Dielectric
- Gasket

Material

- CuBe
- Brass
- Brass
- PTFE
- NeopreneCR 50C6

Plating

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/08.13/6.1

ADAPTOR
TNC 50Ω Plug - BNC 50Ω Jack

56S151-K00N5

Electrical data

Impedance 50 Ω
 Frequency DC to 10 GHz
 Return loss ≥ 35 dB @ DC to 1 GHz
 ≥ 26 dB @ 1 GHz to 2 GHz
 ≥ 18 dB @ 2 GHz to 4 GHz
 Insertion loss ≤ 0.05 x √ f [GHz] dB, DC to 4 GHz
 Insulation resistance ≥ 5 GΩ
 Center contact resistance ≤ 1.5 mΩ BNC and TNC side
 Outer contact resistance ≤ 1 mΩ BNC and TNC side
 Test voltage (at sea level) 1500 V rms
 Working voltage (at sea level) 500 V rms
 Power handling (at 20 °C, sea level, VSWR 1.0) 80 W @ 2 GHz

Mechanical data

	BNC side	TNC side
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 15 N	≥ 15 N
Coupling test torque	N/A	≤ 1.7 Nm
Recommended torque	N/A	0.46 Nm to 0.69 Nm

Environmental data

Temperature range -65 °C to +165 °C
 Thermal shock MIL-STD-202, Method 107, Condition B
 Corrosion MIL-STD-202, Method 101, Condition B
 Vibration MIL-STD-202, Method 204, Condition B
 Shock MIL-STD-202, Method 213, Condition G
 Moisture resistance MIL-STD-202, Method 106
 RoHS compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 22.6 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	10.08.04	Sa. Krautenbacher	20.03.14	f00	14-0352	T. Krojer	20.03.14
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