



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

Interface

According to IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Gasket

Material

Beryllium copper
Brass
PTFE
Silicone

Plating

AuroDur®, gold plated
White bronze(e.g. Optalloy®)

**Adaptor
SnapN 50 Ω Jack – N 50 Ω Plug**

53QK153-S00N5

Electrical data

Impedance	50 Ω	
Frequency	DC to 11 GHz	
Return loss	≥ 35 dB, DC to 2 GHz	
	≥ 30 dB, 2 to 4 GHz	
	≥ 25 dB, 4 to 9 GHz	
Insertion loss	≤ 0.05 dB x √ f [GHz]	
Insulation resistance	≥ 5 x10 ³ MΩ	
Center contact resistance	≤ 1.0 mΩ, SnapN side	≤ 1.0 mΩ, N side
Outer contact resistance	≤ 1.0 mΩ, SnapN side	≤ 0.25 mΩ, N side
Test voltage	2500 V rms	
Working voltage	500 V rms	
RF-leakage	-90 dB @ 3 GHz	
	-80 dB @ 6 GHz	
Intermodulation (3 rd order)	≤ -155 dBc @ 1.8 GHz (2 x 43 dBm)	

Mechanical data

	SnapN side	N side
Mating cycles	min. 200	min 500
Center contact captivation: axial	≥ 28 N	
Engagement force	30 N (typ.)	
Disengagement force	30 N (typ.)	
Coupling test torque	N/A	max. 1.7 Nm
Recommended torque	N/A	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-40°C to +85°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 43.6 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
Gramsamer Sepp	13/03/06	J_Gramsamer	31.03.15	c00	15-0397	J_Krautenb.	31.03.15
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