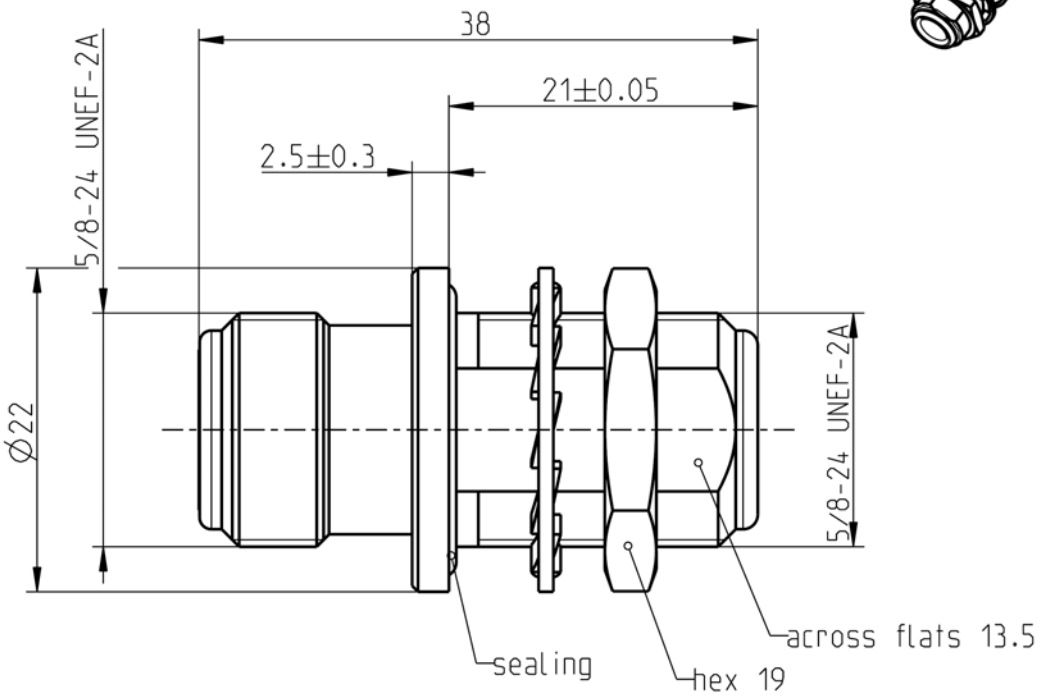
Technical Data Sheet		Rosenberger
N 50 Ω	Adaptor Jack - Jack	**53K503-K00N5**



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

Interface

According to	IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

Panel piercing	B 13

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	

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

Technical Data Sheet		Rosenberger
N 50 Ω	Adaptor Jack - Jack	**53K503-K00N5**

Electrical data

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 32 dB @ DC to 2 GHz ≥ 25 dB @ 2 GHz to 4 GHz ≥ 22 dB @ 4 GHz to 9 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f\ [GHz]}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage (at sea level)	2500 V rms
Working voltage (at sea level)	1400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB @ DC to 1 GHz
Intermodulation 3rd order	≥ 115 dBm (2 x 43 dBm)

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	≥ 28 N
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-45 °C to +85 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
Degree of protection (mated pair)	IEC 60529, IP67
RoHS	compliant

Weight

Weight	45.9 g/pce

Draft	Date	Approved	Date
A. Fellner	15/11/07	Sa. Krautenbacher	18.03.14

Rev.	Engineering change number	Name	Date
d00	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