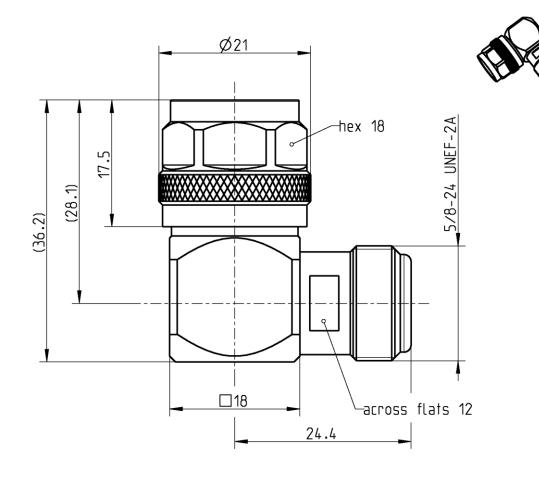
Technical Data Sheet		Rosenberger		
Ν 50 Ω	Adaptor Plug – Jack right angle	53S201-K00N5		



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

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

Documents N/A

Material and plating		
Connector parts	Material	Plating
Center contact plug side	Brass	AuroDur®, gold plated
Center contact jack side	CuBe	AuroDur®, gold plated
Outer contact	Brass	Flash white bronze over silver(e.g. Optargen®)
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE	
Gasket	Silicone	

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Technical Data Sheet

Rosenberger

Ν 50 Ω

Adaptor

53S201-K00N5 Plug - Jack right angle

Electrical data

Impedance Frequency

Return loss

Insertion loss

Insulation resistance Center contact resistance Outer contact resistance Working voltage

Power handling (at 20 °C, sea level, VSWR 1.0)

RF-leakage

Intermodulation (3rd order)

 50Ω

DC to 11 GHz

 \geq 35 dB, DC to 2 GHz \geq 28 dB, 2 to 3 GHz

 \geq 20 dB, 3 to 6 GHz

 $\leq 0.1 \text{ x } \sqrt{\text{f [GHz] dB}}$

 $\geq 5 \times 10^3 M\Omega$

 \leq 1 m Ω $\leq 0.25 \text{ m}\Omega$ 500 V rms

1000 W @ 1 GHz 700 W @ 2 GHz

 \geq 128 dB up to 1 GHz

 \leq -115 dBm @ 2 x 20 W

Mechanical data

Mating cycles Coupling nut retention Center contact captivation: axial Coupling test torque Recommended torque

min. 500 ≥ 450 N ≥ 28 N

max. 1.7 Nm 0.7 Nm to 1.1 Nm

Environmental data

Temperature range Thermal shock Corrosion Vibration Shock

Moisture resistance

RoHS

-55°C to +155°C

MIL-STD-202, Meth. 107, Cond. B MIL-STD-202, Meth. 101, Cond. B MIL-STD-202, Meth. 204, Cond. B MIL-STD-202, Meth. 213, Cond. I

MIL-STD-202, Meth. 106

compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight

77 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Inge Mühlauer	08.06.04	Chr. Janßen	27.01.21	i00	20-1927	S. Huber-Siegl	27.01.21

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