



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**

- Center contact jack side
- Center contact plug side
- Outer contact
- Body
- Dielectric
- Gasket

**Material**

- CuBe
- Brass
- Brass
- Brass
- PTFE
- Silicone

**Plating**

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

# Technical Data Sheet

# Rosenberger

N 50  $\Omega$

Adaptor  
Jack – Plug – Jack

**53S301-K00N5**

## Electrical data

Impedance	50 $\Omega$
Frequency	DC to 11 GHz
Insulation resistance	$\geq 5 \times 10^3 \text{ M}\Omega$
Center contact resistance	$\leq 1 \text{ m}\Omega$
Outer contact resistance	$\leq 0.25 \text{ m}\Omega$
Working voltage	500 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	$\geq 128 \text{ dB}$ up to 1 GHz

## Mechanical data

Mating cycles	min. 500
Coupling nut retention	$\geq 450 \text{ N}$
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

## 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 52.8 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.



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