



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 plug side  
Center contact jack side  
Outer contact  
Body  
Dielectric  
Gasket

**Material**

Brass  
CuBe  
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®)

**ADAPTOR**  
**N 50 Ω PLUG – JACK RIGHT ANGLE**

**53S201-K00N5**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 11 GHz
Return loss	≥ 35 dB, DC to 2 GHz ≥ 28 dB, 2 to 3 GHz ≥ 20 dB, 3 to 6 GHz
Insertion loss	≤ 0.05 dB, DC to 6 GHz
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Test voltage	2500 V rms
Working voltage	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 up to 1 GHz
Intermodulation (3 <sup>rd</sup> order)	≤ -115 dBm @ 2 x 20 W

**Mechanical data**

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 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
2002/95/EC (RoHS)	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard	1 pce in bag
Weight	77.0 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	08/06/04	Fellner A.	15.10.07	e00	07-0154	S_Kra.	15.10.07
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