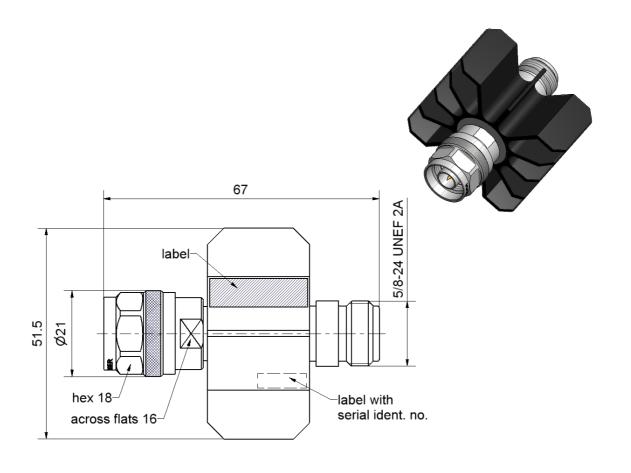
#### TECHNICAL DATA SHEET

# **Rosenberger®**

#### N 50 $\Omega$ ATTENUATOR PLUG/JACK

#### 53AS110-K20N3



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

PTFE

ALN

#### Material and plating

**Connector parts** 

Center contact - plug Center contact - jack Outer contact

Coupling nut Heatsinks

Dielectric Substrate

#### Material

**Plating** 

Brass Gold, min. 1.27 µm, over nickel Beryllium copper Gold, min. 1.27  $\mu$ m, over nickel

Flash white bronze over silver(e.g. Optargen®) Brass Flash white bronze over silver(e.g. Optargen®) Brass Αl

Black anodized

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#### TECHNICAL DATA SHEET



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#### N 50 $\Omega$ ATTENUATOR PLUG/JACK

### 53AS110-K20N3

Electrical data

Impedance 50  $\Omega$ 

Frequency DC to 10 GHz

Return loss  $\geq$  26.4 dB, DC to 2 GHz  $\geq$  21.2 dB, 2 GHz to 5 GHz

≥ 14.0 dB, 5 GHz to 10 GHz

Attenuation 20 dB

Tolerances  $\leq \pm 0.4$  dB, DC to 2 GHz

 $\leq$   $\pm$  0.5 dB, 2 GHz to 4 GHz  $\leq$   $\pm$  1.5 dB, 4 GHz to 10 GHz

 $\begin{array}{ll} \text{Center contact resistance} & \leq 1 \text{ m}\Omega \\ \text{Outer contact resistance} & \leq 0.25 \text{ m}\Omega \\ \text{Power handling} & 10 \text{ W at } 25^{\circ}\text{C} \\ \end{array}$ 

derated linearity to 0 Watts at 125°C

Mechanical data

 $\begin{array}{lll} \text{Mating cycles} & \text{min. 500} \\ \text{Coupling nut retention} & \geq 450 \text{ N} \\ \text{Center contact captivation} & \geq 28 \text{ N} \\ \text{Coupling test torque} & \text{max. 1.7 Nm} \\ \text{Recommended torque} & 0.7 \text{ Nm to 1.1 Nm} \\ \end{array}$ 

Environmental data

Temperature range -65°C to +125°C

2002/95/EC (RoHS) compliant

**Tooling** 

N/A

Suitable cables

www.rosenberger.de

N/A

**Packing** 

Standard 1 pce in air cushion bag

Weight 155 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
Kerstin Herzog	05/08/05	Frank Weiß	11/12/07		b00	07-0838	Kerstin Hobrak	11/12/07
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