



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

**Interface**

According to IEC 61169-16

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center conductor - plug
- Center conductor - jack
- Outer conductor
- Coupling nut
- Heatsink
- Dielectric
- Substrate

**Material**

- Brass
- Beryllium copper
- Brass
- Brass
- Aluminum
- PTFE
- AIN

**Plating**

- Gold, min. 1.27  $\mu\text{m}$ , over nickel
- Gold, min. 1.27  $\mu\text{m}$ , over nickel
- Flash white bronze over silver(e.g. Optargen®)
- White bronze(e.g. Optalloy®)
- Black anodized

# Technical Data Sheet

# Rosenberger

N 50 Ω

Attenuator  
Plug / Jack 10 Watt

**53AS110-K20N3**

## Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 26.4 dB, DC to 2 GHz ≥ 21.2 dB, 2 GHz to 5 GHz ≥ 14.0 dB, 5 GHz to 10 GHz
Attenuation	20 dB ± 0.4 dB, DC to 2 GHz 20 dB ± 0.5 dB, 2 GHz to 4 GHz 20 dB ± 1.5 dB, 4 GHz to 10 GHz
Power handling (at 25 °C, sea level)	≤ 10 W, derated linearity by 0.1 W/K

## Mechanical data

Mating cycles	≥ 500
Coupling nut retention	≥ 450 N
Center contact captivation	≥ 28 N
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

## Environmental data

Temperature range	-65 °C to +125 °C
RoHS	compliant

## Tooling

N/A

## Suitable cables

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
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