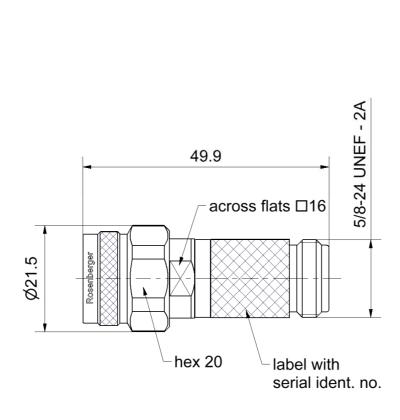
Technical Data Sheet		Rosenberger		
RPC-N 50 Ω	Attenuator Plug/Jack	05AS122-K40S3		





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

Interface
According to IEC 61169-16

Documents
Application note
AN001 "Calibration Services"

### **Documentation**

This Part is delivered with:

- USB Stick
  - S2p data file and uncertainty data file of the reference measurement values

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Email: info@rosenberger.de

- Calibration Certificate as PDF file.
- Calibration Certificate

Details see "Declaration of calibration" options.

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# **Technical Data Sheet**

# Rosenberger

RPC-N 50 Ω Attenuator Plug/Jack

05AS122-K40S3

# Material and plating

Connector parts
Center conductor - plug
Center conductor - jack

Outer conductor Coupling nut Dielectric Substrate Material

Brass CuBe Stainless steel Stainless steel

PPE Al<sub>2</sub>O<sub>3</sub>

 $\leq 0.5 \text{ W}$ 

**Plating** 

Gold, min. 1.27  $\mu m$ , over nickel Gold, min. 1.27  $\mu m$ , over nickel

Passivated Passivated

#### Electrical data

Frequency range DC Resistance Power handling DC to 18 GHz 50  $\Omega$ 

## **Electrical data (typical)**

Return loss

Attenuation

 $\geq$  32 dB, DC to 4 GHz  $\geq$  23 dB, 4 GHz to 18 GHz 40 dB  $\pm$  0.5 dB, DC to 4 GHz 40 dB  $\pm$  1.0 dB, 4 GHz to 18 GHz

#### Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Maximum torque} & 1.70 \text{ Nm} \\ \text{Recommended torque} & 1.10 \text{ Nm} \\ \end{array}$ 

Gauge - plug 5.28 mm to 5.32 mm Gauge - jack 5.22 mm to 5.26 mm

# **Electrical verification standard**

This Attenuator is designed as an electrical verification standard. Reference measurement values (calibration results) for transmission and reflection are included. Connected to a calibrated VNA the actual measured transmission and reflection values can be compared to the reference measurement values and the quality of the VNA calibration can be evaluated.

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#### Environmental data

Operating temperature range<sup>1</sup> +20 °C to +26 °C
Rated temperature range of use<sup>2</sup> 0 °C to +50 °C
Storage temperature range -40 °C to +85 °C

RoHS compliant

<sup>&</sup>lt;sup>1</sup> Temperature range over which the reference measurement values are applicable.

<sup>&</sup>lt;sup>2</sup> This range is underneath and above the operating temperature range, within the attenuator is fully functional and could be used without damage.

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#### Declaration of calibration options

### **Factory Calibration**

Standard delivery for this verification standard includes a Factory Calibration. The Calibration Certificate issued reports individual transmission and reflection calibration results traceable to national / international standards. A S2p data file with the reference measurement values and the measurement uncertainties in electronic format are included.

#### **Accredited Calibration**

Optional this verification standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual transmission and reflection calibration results traceable to national / international standards. A S2p data file with the reference measurement values and the measurement uncertainties in electronic format are included. The measurement uncertainties are smaller than in a Factory Calibration.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Recommendation	12 months
Packing Standard Weight	1 pce in box 68 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	20.01.05	Lars Ramtke	28.03.18	i00	18-0190	Marion Striegler	28.03.18

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