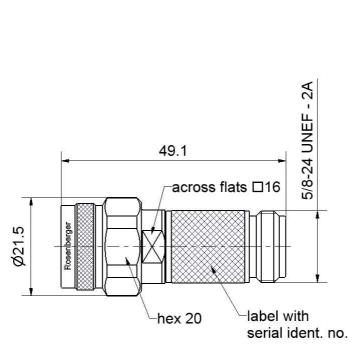
Technica	al Data Sheet	Rosenberger		
RPC-N 50 Ω	Attenuator Plug/Jack	05AS122-K10S3		





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

Interface
According to IEC 61169-16

DocumentsApplication noteAN001 "Calibration Services"

Documentation

This Part is delivered with:

- USB Stick
 - S2p data file and uncertainty data file of the reference measurement values
 - 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-K10S3

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_2O_3 **Plating**

Gold, min. 1.27 µm, over nickel Gold, min. 1.27 µm, over nickel

Passivated Passivated

Electrical data

Frequency range DC Resistance Power handling

DC to 18 GHz 50Ω

 $\leq 0.5 \text{ W}$

Electrical data (typical)

Return loss

≥ 32 dB, DC to 4 GHz ≥ 26 dB, 4 GHz to 12.4 GHz ≥ 23 dB, 12.4 GHz to 18 GHz 10 dB \pm 0.3 dB, DC to 8 GHz 10 dB \pm 0.5 dB, 8 GHz to 12.4 GHz 10 dB \pm 0.8 dB, 12.4 GHz to 18 GHz

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Attenuation

Mechanical data

Mating cycles ≥ 500 Maximum torque 1.70 Nm Recommended torque 1.10 Nm

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.

Environmental data

Operating temperature range¹ +20 °C to +26 °C Rated temperature range of use² 0 °C to +50 °C Storage temperature range - 40 °C to +85 °C

RoHS compliant

Temperature range over which the reference measurement values are applicable.

This range is underneath and above the operating temperature range, within the attenuator is fully functional and could be used without damage.

Technic	al Data Sheet	Rosenberger		
RPC-N 50 Ω	Attenuator Plug/Jack	05AS122-K10S3		

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

Calibration interval

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.

Cambration interval			
Recommendation	12 months		
Packing			
Standard Weight	1 pce in box 67 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.

Marion Striegler 26.01.18 Lars Ramtke 28.03.18 a00 18-0190 Marion Striegler 28	Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
	Marion Striegler	26.01.18	Lars Ramtke	28.03.18	a00	18-0190	Marion Striegler	28.03.18

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