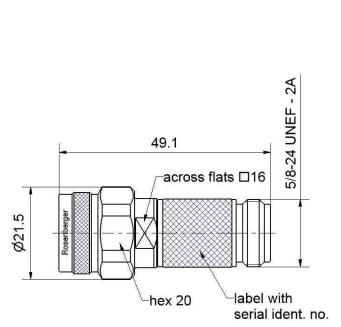
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|----------------------|-------------------------|---------------|--|
| RPC-N 50 Ω | Attenuator Plug/Jack | 05AS122-K20S3 | |





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
 with S2p data file of the reference measurement values. Calibration Certificate as PDF file.
- Calibration Certificate
 Details see "Declaration of calibration" options.

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05AS122-K20S3

Material and plating

RPC-N

50 Ω

Technical Data Sheet

Attenuator

Plug/Jack

Connector parts Center conductor - plug Center conductor - jack Outer conductor Coupling nut Dielectric

Material CuBe 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

Substrate

Frequency range DC to 18 GHz DC Resistance 50Ω Power handling ≤ 0.5 W

Electrical data (typical)

Return loss ≥ 32 dB, DC to 4 GHz ≥ 26 dB, 4 GHz to 18 GHz 20 dB \pm 0.3 dB, DC to 4 GHz Attenuation

20 dB \pm 0.5 dB, 4 GHz to 18 GHz

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.

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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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| RPC-N 50 Ω | Attenuator Plug/Jack | 05AS122-K20S3 | |

Declaration of calibration options

Factory Calibration

Standard delivery for this verification standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results. Reflection results are traceable to national / international standards. A S2p data file with the reference measurement values is included.

Accredited Calibration

Not available.

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

Calibration interval

Recommendation 12 months

Packing

Standard 1 pce in box Weight 59.0 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 | |
|----------------|----------|---------------|----------|--|
| Kerstin Herzog | 20.01.05 | Markus Müller | 12.10.16 | |

| | Rev. | Engineering change number | Name | Date |
|---|------|---------------------------|------------------|----------|
| | g00 | 16-1390 | Marion Striegler | 12.10.16 |
| _ | | | | • |

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