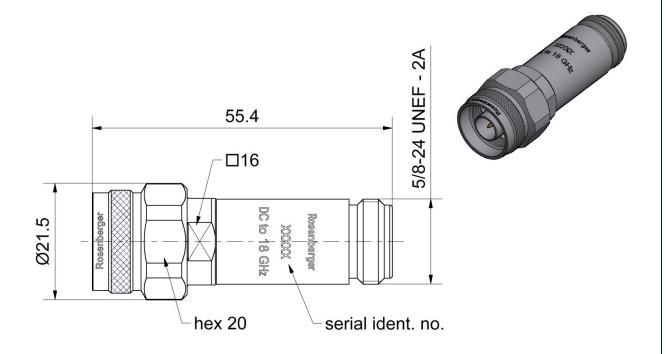
| Technical Data Sheet | | Rosenberger | | |
|----------------------|--|--------------|--|--|
| RPC-N | Impedance Matching Adaptor 50 Ω Jack – 75 Ω Plug | 05K1P5-S21S3 | | |



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

| Interface | |
|--------------|--------------|
| According to | IFC 61169-16 |

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor Outer conductor Coupling nut Dielectric

Material

CuBe Stainless steel Stainless steel PPE;

Plating

Gold, min. 1.27 µm, over nickel Passivated Passivated

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| Technical Data Sheet | | Rosenberger | | |
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| RPC-N | Impedance Matching Adaptor 50 Ω Jack – 75 Ω Plug | 05K1P5-S21S3 | | |

Electrical data

Frequency range DC to 18 GHz
Return loss ≥ 11 dB, DC 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 5.36 mm Gauge - jack 5.18 mm to 5.26 mm

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

Declaration of calibration options

Factory Calibration

Standard delivery for this device includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards.

Accredited Calibration

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) up to 12 GHz having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards.

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 63.0 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|------------------|----------|-------------|----------|------|---------------------------|----------------|----------|
| Marion Striegler | 12.08.21 | Lars Ramtke | 22.04.22 | a00 | 21-s117 | David d'Argent | 22.04.22 |

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¹ Temperature range over which these specification are valid.

² This range is underneath and above the operating temperature range, within the calibration adaptor is fully functional and could be used without damage.