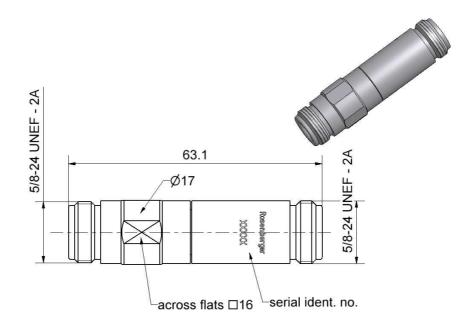
Technical Data Sheet RPC-N 50 Ω Calibration Adaptor Jack/Jack O5K121-K20S3



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

Interface	
According to	IEC 61169-16

Documents	
Application note	AN001 "Calibration Services"

Material and plating		
Connector parts	Material Material	Plating
Center conductor	CuBe	Gold, min. 1.27 µm, over nickel
Outer conductor	Stainless steel	Passivated
Dielectric	PPE	

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Page

1/3

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Technical Data Sheet Rosenberger

RPC-N Calibration Adaptor 50 Ω Jack/Jack

05K121-K20S3

Electrical data

Frequency range Return loss DC to 18 GHz ≥ 36 dB, DC to 4 GHz ≥ 32 dB, 4 GHz to 8 GHz ≥ 30 dB, 8 GHz to 18 GHz

Mechanical data

Mating cycles ≥ 500 Maximum torque1.70 NmRecommended torque1.10 Nm

Gauge 5.22 mm to 5.26 mm

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

 $\begin{array}{ll} \mbox{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \mbox{Offset Delay} & 153.7730 \ ps \\ \mbox{Length (electrical) / Offset Length} & 46.10 \ mm \\ \mbox{Offset Loss} & 2.20 \ G\Omega/s \\ \mbox{Loss} & 0.0294 \ dB/\sqrt{GHz} \end{array}$

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 these specification are valid.

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

Technica	al Data Sheet	Rosenberger			
RPC-N 50 Ω	Calibration Adaptor	05K121-K20S3			

Declaration of calibration options

Factory Calibration

Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) 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. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. The uncertainties are smaller than in a Factory Calibration.

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	78.5 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
Herbert Babinger	27.07.04	Markus Müller	14.10.16	g00	16-1390	Marion Striegler	r	14.10.16
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3/3

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