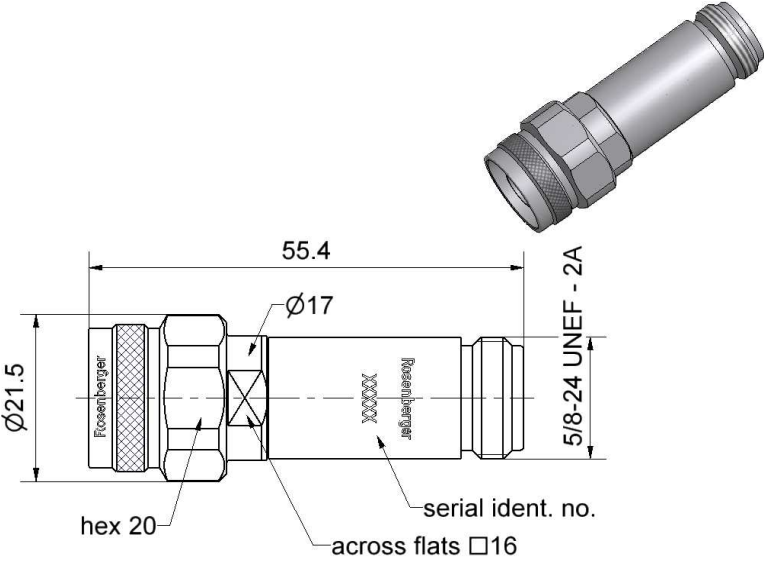


Technical Data Sheet		Rosenberger
RPC-N 50 Ω	Calibration Adaptor Plug/Jack	05S121-K20S3
		
All dimensions are in mm; tolerances according to ISO 2768 m-H		
Interface		
According to		IEC 61169-16
Documents		
Application note		AN001 "Calibration Services"
Material and plating		
Connector parts		Material
Center conductor		CuBe
Outer conductor		Stainless steel
Coupling nut		Stainless steel
Dielectric		PPE
		Plating
		Gold, min. 1.27 µm, over nickel
		Passivated
		Passivated
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de		Tel. : +49 8684 18-0 Email : info@rosenberger.de
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RPC-N
50 Ω

Calibration Adaptor
Plug/Jack

05S121-K20S3

Electrical data

Frequency range	DC to 18 GHz
Return loss	≥ 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 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

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.

Offset Z_0 / Impedance / Z_0	50 Ω
Offset Delay	153.7730 ps
Length (electrical) / Offset Length	46.10 mm
Offset Loss	2.20 G Ω /s
Loss	0.0294 dB/ $\sqrt{\text{GHz}}$

Environmental data

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

RoHS compliant

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.

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger									
RPC-N 50 Ω		Calibration Adaptor Plug/Jack		05S121-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 <table><tr><td>Recommendation</td><td>12 months</td></tr></table> Packing <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>71.5 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	71.5 g/pce
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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		Rev.		Engineering change number							
Approved		Date		Name		Date							
Herbert Babinger		18.10.06		Markus Müller		11.10.16							
f00		16-1390		Marion Striegler		10.10.16							
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