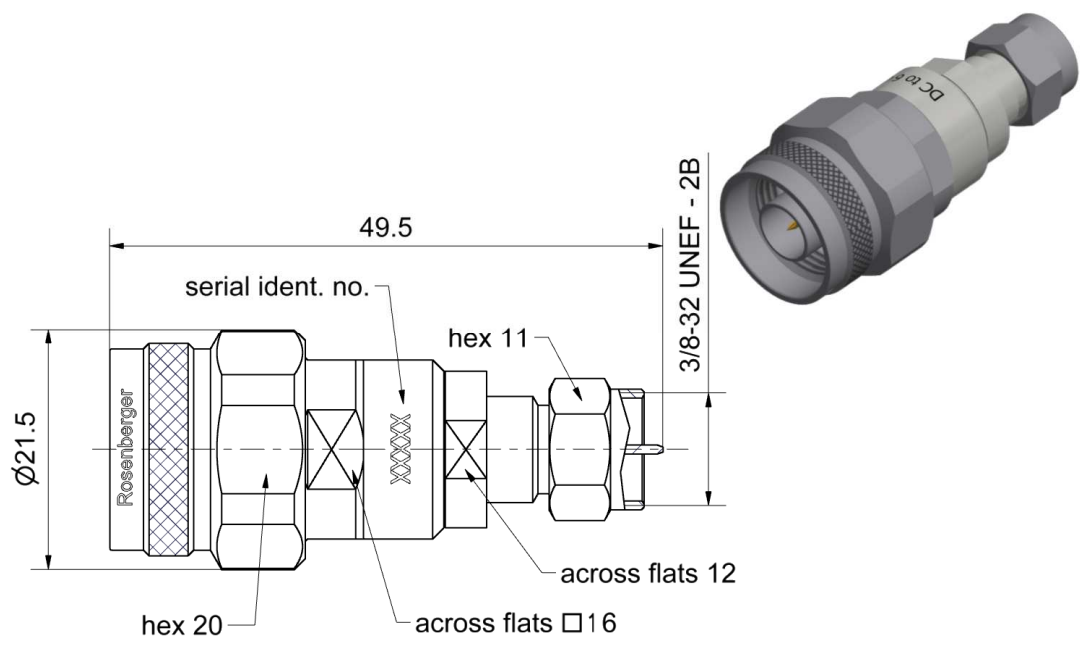


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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger	
Calibration Adaptor RPC-N 75 Ω Plug – F 75 Ω Plug		P5S174-S21S3	
			
All dimensions are in mm; tolerances according to ISO 2768 m-H			
Interface RPC-N 75 Ω according to F 75 Ω according to IEC 61169-16 IEC 61169-24, EIA-550			
Documents Application note AN001 “Calibration Services”			
Material and plating Connector parts Center contact Outer contact Coupling nut Dielectric Material CuBe Stainless steel Stainless steel PS 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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Electrical data

Frequency	DC to 6 GHz
Return loss	≥ 32 dB, DC to 3 GHz ≥ 28 dB, 3 GHz to 6 GHz

Mechanical data

	RPC-N 75 Ω	F 75 Ω
Mating cycles	≥ 500	≥ 1000
Maximum torque	1.70 Nm	6.78 Nm
Recommended torque	1.10 Nm	2.00 Nm
Gauge	5.28 mm to 5.36 mm	0.00 mm to 0.10 mm
Nominal pin diameter		0.81 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	75 Ω
Offset Delay	143.099 ps
Length (electrical) / Offset Length	42.90 mm
Offset Loss	3.20 G Ω /s
Loss	0.0265 dB/ $\sqrt{\text{GHz}}$
Line Loss @ 1GHz	0.0006 dB/mm

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
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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.

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Calibration Adaptor RPC-N 75 Ω Plug – F 75 Ω Plug				P5S174-S21S3									
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 Rosenberger standards, national / international standards are not available. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. Accredited Calibration Not available. 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>48.0 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	48.0 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	Approved	Date	Rev.	Engineering change number	Name	Date						
Marcel Panicke	08.08.18	Markus Müller	09.05.19	b00	19-0897	Marion Striegler	09.05.19						
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