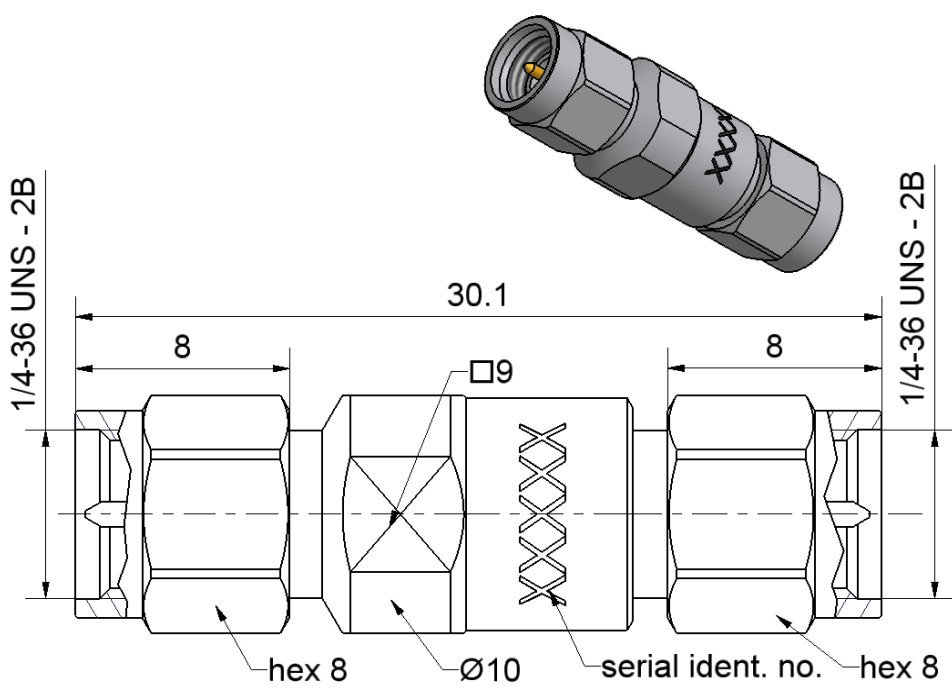


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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger
RPC-3.50	Calibration Adaptor Plug/Plug	03S121-S20S3
		
All dimensions are in mm; tolerances according to ISO 2768 m-H		
Interface According to Mechanically compatible with IEC 60169-23 RPC-2.92 and SMA		
Documents Application note AN001 "Calibration Services"		
Material and plating Connector parts Center conductor Outer conductor 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 range	DC to 26.5 GHz
Return loss	≥ 34 dB, DC to 4 GHz
	≥ 32 dB, 4 GHz to 8 GHz
	≥ 30 dB, 8 GHz to 26.5 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.04 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	84.0582 ps
Length (electrical) / Offset Length	25.20 mm
Offset Loss	2.51 G Ω /s
Loss	0.0183 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
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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.

Technical Data Sheet				Rosenberger									
RPC-3.50		Calibration Adaptor Plug/Plug		03S121-S20S3									
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>10.0 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	10.0 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						
Herbert Babinger	15.10.14	Markus Müller	17.10.16	h00	16-1390	Marion Striegler	17.10.16						
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