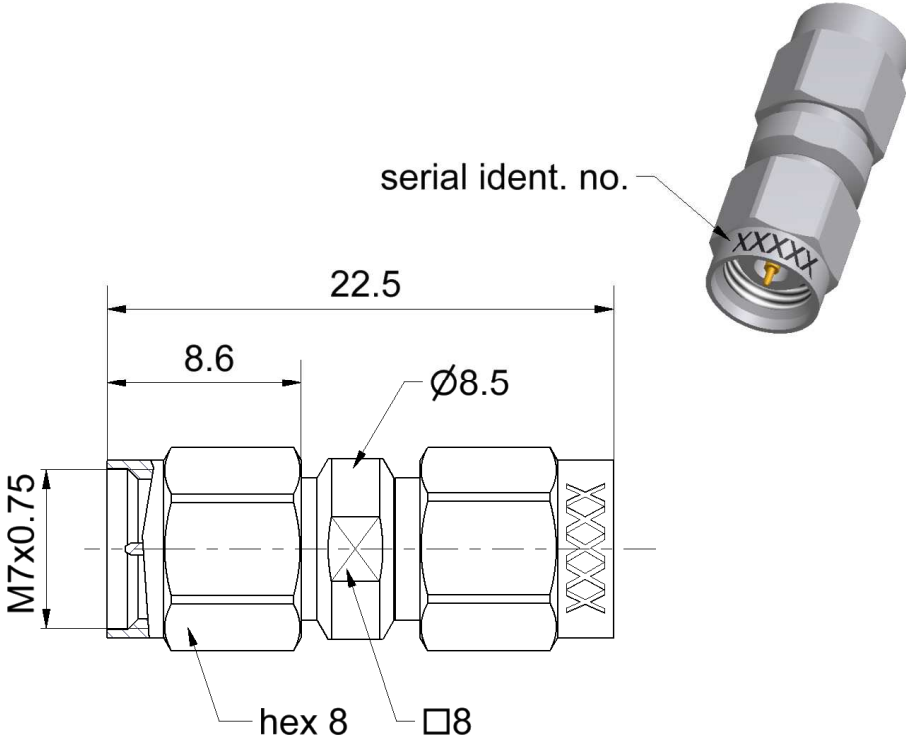


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Technical Data Sheet		Rosenberger															
RPC-2.40	Calibration Adaptor Plug/Plug	09S121-S20S3															
 All dimensions are in mm; tolerances according to ISO 2768 m-H Interface According to Mechanically compatible with IEC 61169-40 RPC-1.85 Documents Application note AN001 "Calibration Services" Material and plating <table><tr><th>Connector parts</th><th>Material</th><th>Plating</th></tr><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PS</td><td></td></tr></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27 µm, over nickel	Outer conductor	Stainless steel	Passivated	Coupling nut	Stainless steel	Passivated	Dielectric	PS	
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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 50 GHz
Return loss	≥ 30 dB, DC to 4 GHz
	≥ 24 dB, 4 to 26.5 GHz
	≥ 17 dB, 26.5 GHz to 50 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.03 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_o / Impedance / Z_o	50 Ω
Offset Delay	63.3110 ps
Length (electrical) / Offset Length	18.98 mm
Offset Loss	4.00 G Ω /s
Loss	0.0220 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 specifications 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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RPC-2.40		Calibration Adaptor Plug/Plug		09S121-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 Not available. For further, more detailed information see application note AN001 on the Rosenberger homepage. Calibration interval Recommendation12 months Packing Standard1 pce in box Weight6.8 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	
Herbert Babinger		07.09.04		Martin Moder		24.03.15	
Rev.		Engineering change number		Name		Date	
e00		14-1492		Herbert Babinger		24.03.15	
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