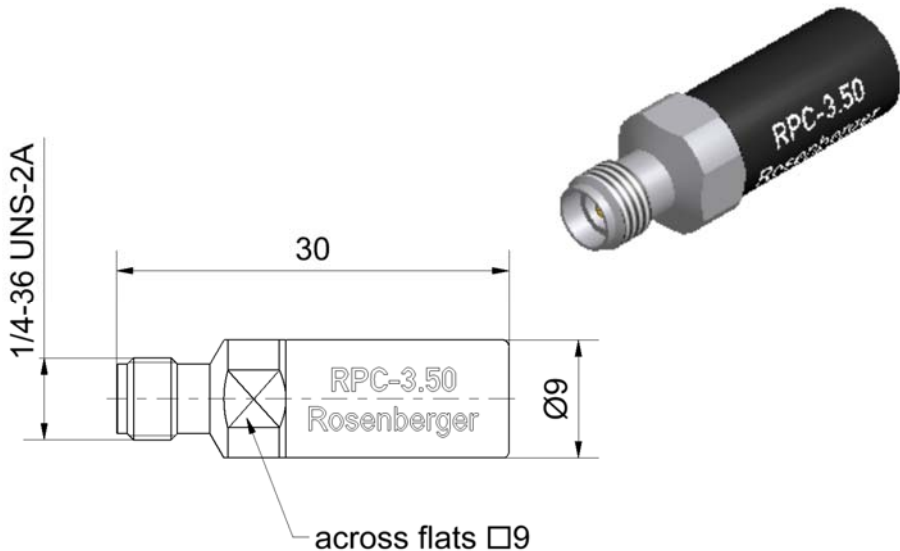


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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger
RPC-3.50	Calibration Load Jack	03K150-C10S3
<div></div>		
<p>All dimensions are in mm; tolerances according to ISO 2768 m-H</p> <div><div>Interface</div><div>According to Mechanically compatible with</div><div>IEC 60169-23 RPC-2.92 and SMA</div></div> <div><div>Documents</div><div>Application note</div><div>AN001 "Calibration Services"</div></div> <div><div>Material and plating</div><div><div>Connector parts</div><div>Center conductor Outer conductor Dielectric Substrate</div><div>Material CuBe Stainless steel PEEK Al₂O₃</div><div>Plating Gold, min. 1.27 µm, over nickel Passivated</div></div></div>		
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de		<div>Tel. : +49 8684 18-0 Email : info@rosenberger.de</div> <div>Page 1 / 3</div>

Electrical data

Frequency range	DC to 26.5 GHz
Return loss	≥ 40 dB, DC to 4 GHz ≥ 35 dB, 4 GHz to 8 GHz ≥ 30 dB, 8 GHz to 26.5 GHz
DC Resistance	$50\ \Omega \pm 0.25\ \Omega$
Power handling	≤ 0.5 W

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	0.0000 ps
Length (electrical) / Offset Length	0.00 mm
Offset Loss	0.00 G Ω /s
Loss	0.0000 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 load is fully functional and could be used without damage.

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Technical Data Sheet				Rosenberger									
RPC-3.50		Calibration Load Jack		03K150-C10S3									
<div>Declaration of calibration options</div> <div>Factory Calibration</div> <p>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.</p> <div>Accredited Calibration</div> <p>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 as well as in a dense data set needed for data based standard definitions. The uncertainties are smaller than in a Factory Calibration.</p> <p>For further, more detailed information see application note AN001 on the Rosenberger homepage.</p> <div>Calibration interval</div> <table><tr><td>Recommendation</td><td>12 months</td></tr></table> <div>Packing</div> <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>8.0 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	8.0 g/pce
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<p>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.</p>													
Draft		Date		Rev.		Engineering change number							
Approved		Date		Name		Date							
Herbert Babinger		17.10.14		Martin Moder		17.10.14							
g00		14-1492		Herbert Babinger		17.10.14							
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