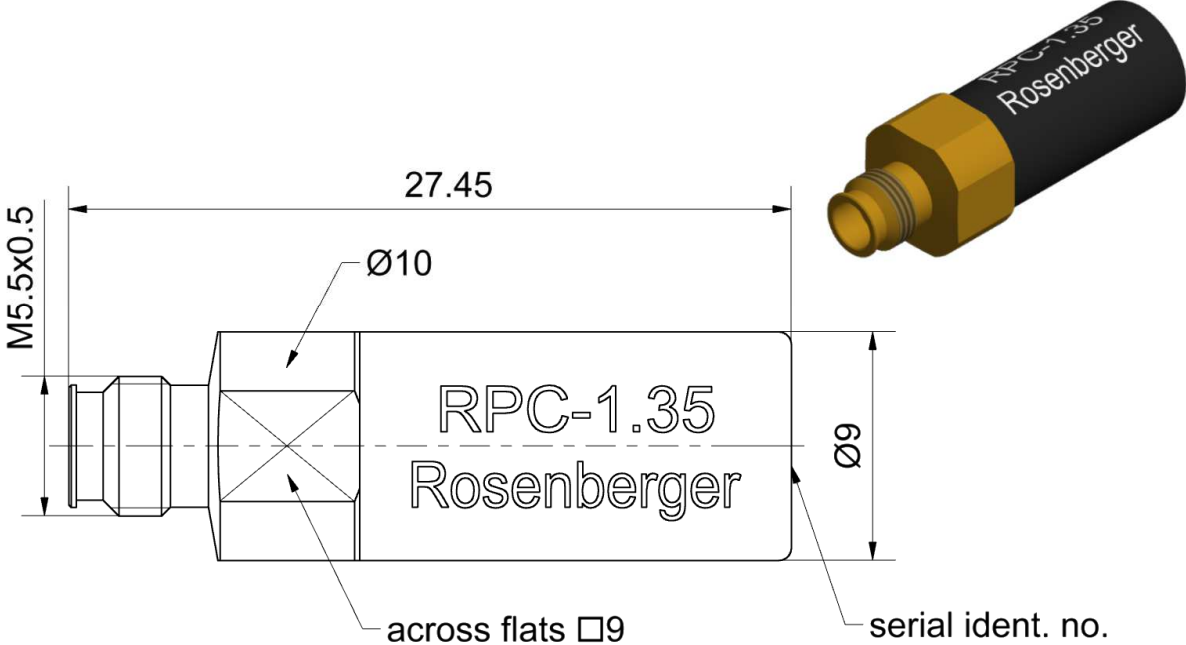


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RF_35/09;14/6.2

Technical Data Sheet		Rosenberger															
RPC-1.35	Calibration Load Jack	P9K150-C10D3															
 2148 All dimensions are in mm; tolerances according to ISO 2768 m-H Interface According to IEC 61169-65 Documents Application note AN001 "Calibration Services" Material and plating <table><thead><tr><th>Connector parts</th><th>Material</th><th>Plating</th></tr></thead><tbody><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27µm</td></tr><tr><td>Outer conductor</td><td>CuBe or equiv.</td><td>Gold, min. 1.27µm</td></tr><tr><td>Dielectric</td><td>PMP</td><td></td></tr><tr><td>Substrate</td><td>Al₂O₃</td><td></td></tr></tbody></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27µm	Outer conductor	CuBe or equiv.	Gold, min. 1.27µm	Dielectric	PMP		Substrate	Al ₂ O ₃	
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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 90 GHz
Return loss	≥ 25 dB, DC to 18 GHz ≥ 20 dB, 18 GHz to 40 GHz ≥ 16 dB, 40 GHz to 70 GHz ≥ 10 dB, 70 GHz to 90 GHz
DC Resistance	$50\ \Omega \pm 0.5\ \Omega$
Power handling (at 25 °C, sea level)	≤ 0.5 W, derate by 0.005 W/K

Mechanical data

Mating cycles	≥ 3000
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.003 mm to 0.020 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-1.35		Calibration Load Jack		P9K150-C10D3									
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>6.5 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	6.5 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							
Marcel Panicke		16.11.18		Lars Ramtke		18.11.19							
b00		19-2148		Marion Striegler		18.11.19							
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