

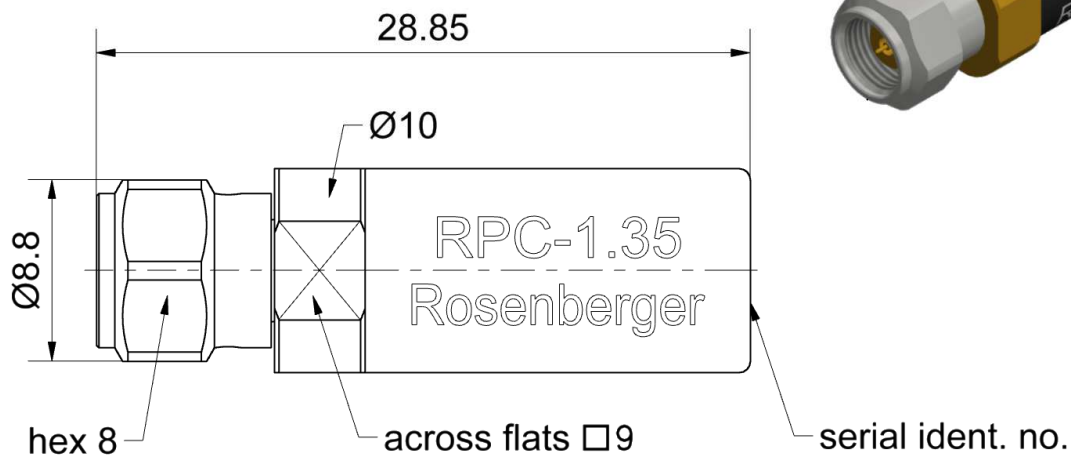
Technical Data Sheet

Rosenberger

RPC-1.35

Calibration Load
Plug

P9S150-C10D3



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

Connector parts

Center conductor
Outer conductor
Coupling nut
Dielectric
Substrate

Material

CuBe
CuBe or equiv.
Stainless steel
PMP
Al₂O₃

Plating

Gold, min. 1.27µm
Gold, min. 1.27µm
Passivated

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 Plug		P9S150-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>7.0 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	7.0 g/pce
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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							
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			Page 3 / 3						

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