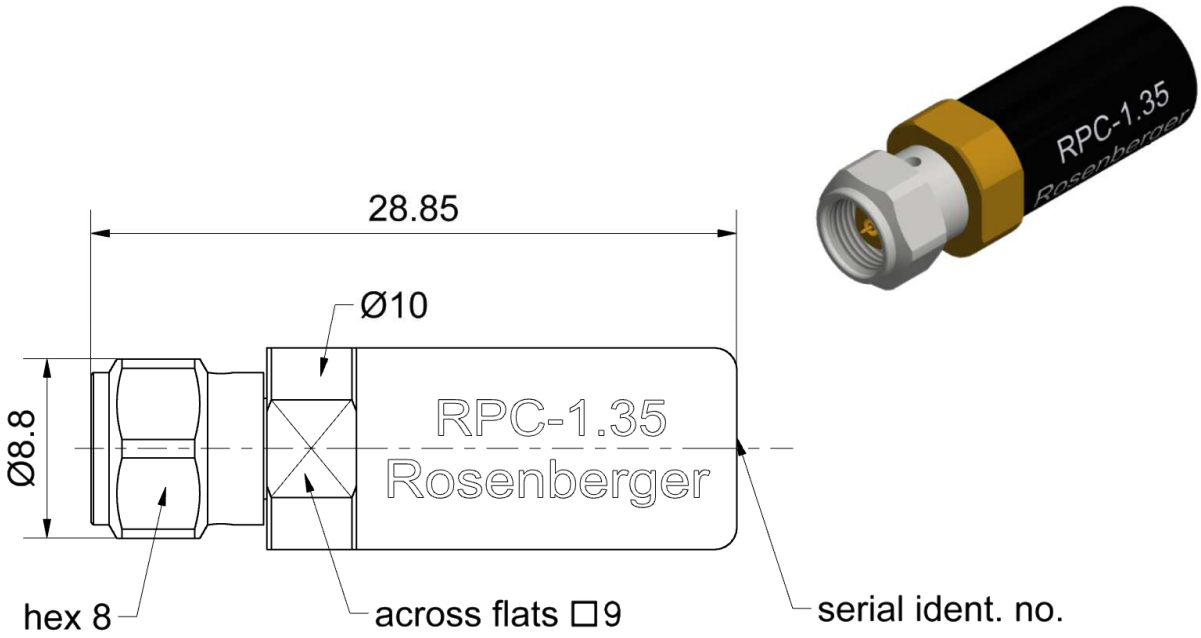
Technical Data Sheet		Rosenberger
RPC-1.35	Open Circuit Plug	**P9S12L-000D3**



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	**Material**	**Plating**
Center conductor	CuBe	Gold, min. 1.27µm
Outer conductor	CuBe or equiv.	Gold, min. 1.27µm
Coupling nut	Stainless steel	Passivated
Dielectric	PMP	

Rosenberger Hochfrequenztechnik GmbH & Co. KG
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Electrical data

Frequency range	DC to 90 GHz
Error from nominal phase[1]	≤ 3.0°, DC to 40 GHz ≤ 4.0°, 40 GHz to 65 GHz ≤ 5.0°, 65 GHz to 90 GHz

[1] The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

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_o / Impedance / Z_o	50 Ω
Offset Delay	16.678 ps
Length (electrical) / Offset Length	5.00 mm
Offset Loss	5.95 GΩ/s
Loss	0.0172 dB/$\sqrt{\text{GHz}}$
Fringing Capacitances[2]	

[2] Fringing Capacitances are determined individually for each open circuit and are documented in a Calibration Certificate.

Environmental data

Operating temperature range[3]	+20 °C to +26 °C
Rated temperature range of use[4]	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C
RoHS	compliant

[3] Temperature range over which these specification are valid.

[4] This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

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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 individually optimized and 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

Recommendation	12 months

Packing

Standard	1 pce in box
Weight	7.0 g/pce

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