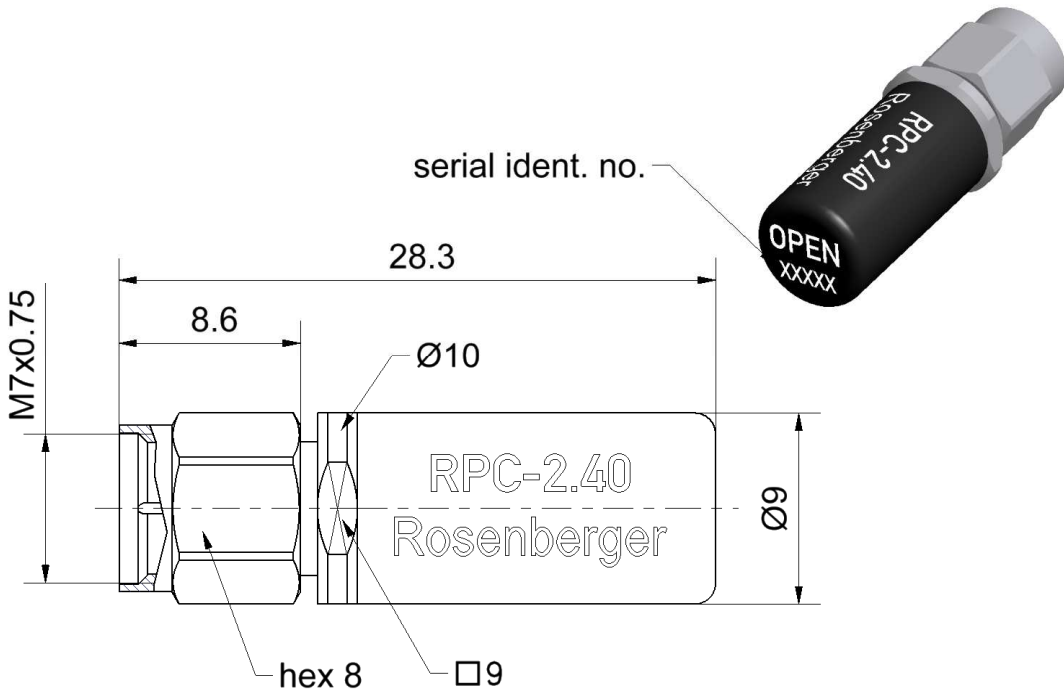


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RF_35/05.10/6.0

Technical Data Sheet		Rosenberger
RPC-2.40	Open Circuit Plug	09S12L-000S3
		
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		
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	
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	≤ 0.15 dB, DC to 4 GHz ≤ 0.20 dB, 4 GHz to 26.5 GHz ≤ 0.25 dB, 26.5 GHz to 50 GHz
Error from nominal phase ¹	$\leq 2.0^\circ$, DC to 4 GHz $\leq 4.0^\circ$, 4 GHz to 26.5 GHz $\leq 6.0^\circ$, 26.5 GHz to 50 GHz

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitance

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 definition

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	20.0140 ps
Length (electrical) / Offset Length	6.00 mm
Offset Loss	3.20 G Ω /s
Loss	0.0111 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
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³ Temperature range over which these specifications 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.

Technical Data Sheet				Rosenberger			
RPC-2.40		Open Circuit Plug		09S12L-000S3			
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 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 6.7 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		08.09.04		Martin Moder		24.03.15	
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Rev. f00		Engineering change number 14-1492	
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