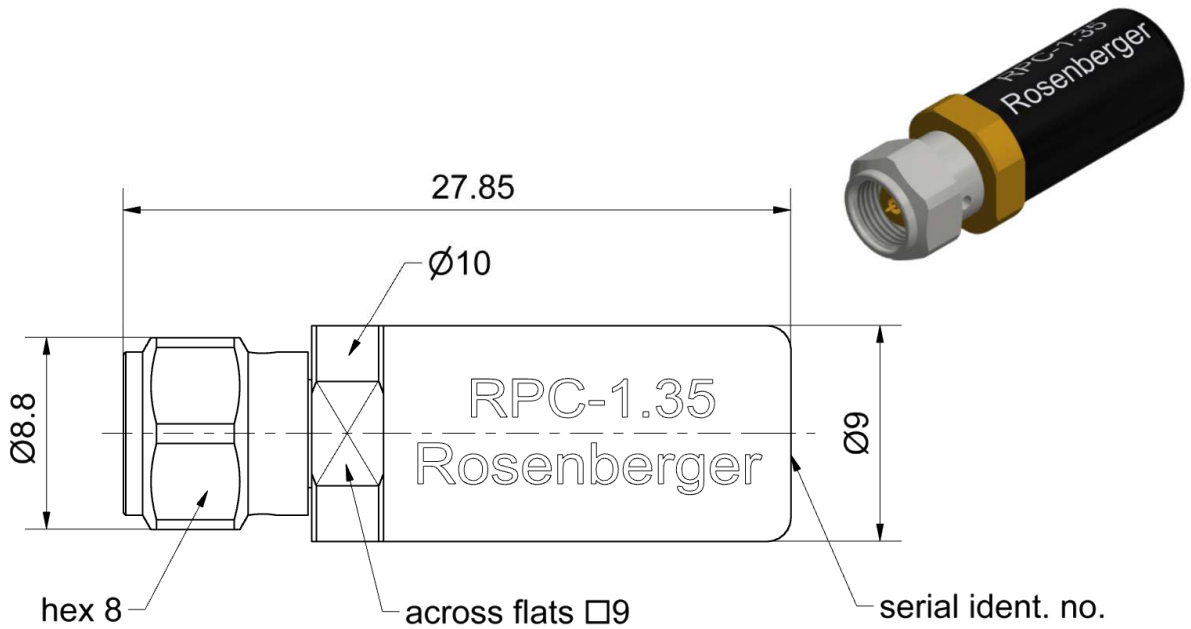


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RF\_35/09;14/6.2

Technical Data Sheet		Rosenberger
RPC-1.35	Short Circuit Plug	P9S12S-000D3
<div></div>		
All dimensions are in mm; tolerances according to ISO 2768 m-H		
<b>Interface</b>		
According to		IEC 61169-65
<b>Documents</b>		
Application note		AN001 "Calibration Services"
<b>Material and plating</b>		
<b>Connector parts</b>		<b>Material</b>
Center conductor		CuBe
Outer conductor		CuBe or equiv.
Coupling nut		Stainless steel
		<b>Plating</b>
		Gold, min. 1.27µm
		Gold, min. 1.27µm
		Passivated
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>		Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>
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## Electrical data

Frequency range DC to 90 GHz

Error from nominal phase<sup>1</sup>

≤ 2.0°, DC to 18 GHz
≤ 3.0°, 18 GHz to 40 GHz
≤ 4.0°, 40 GHz to 65 GHz
≤ 5.0°, 65 GHz to 90 GHz

<sup>1</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductances.

## 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 $\Omega$
Offset Delay	16.678 ps
Length (electrical) / Offset Length	5.00 mm
Offset Loss	5,95 G $\Omega$ /s
Loss	0,0172 dB/ $\sqrt{\text{GHz}}$
Short Inductance <sup>2</sup>	

<sup>2</sup> Short Inductances are determined individually for each short circuit and are documented in a Calibration Certificate.

## Environmental data

Operating temperature range <sup>3</sup>	+ 20 °C to +26 °C
Rated temperature range of use <sup>4</sup>	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS	compliant
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<sup>3</sup> Temperature range over which these specification are valid.

<sup>4</sup> This range is underneath and above the operating temperature range, within the short circuit is fully functional and could be used without damage.

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Technical Data Sheet				Rosenberger									
RPC-1.35		Short Circuit Plug		P9S12S-000D3									
<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, <b>traceable to Rosenberger standards</b>, national / international standards are not available. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde &amp; Schwarz and Anritsu compatible VNA format.</p> <div>Accredited Calibration</div> <p>Not available.</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>5.8 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	5.8 g/pce
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Draft		Date		Rev.		Engineering change number							
Approved		Date		Name		Date							
Marcel Panicke		22.08.17		Lars Ramtke		18.11.19							
b00		19-2148		Marion Striegler		18.11.19							
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