

35/09.14/6.2

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## **Technical Data Sheet**

**RPC-N** 50 Ω

**Open Circuit** Plug

## Rosenberger

## 05S12L-000S3

Electrical data	
Frequency range	DC to 18 GHz
Return loss	$\leq$ 0.10 dB, DC to 4 GHz
	$\leq$ 0.15 dB, 4 GHz to 8 GHz
	$\leq$ 0.20 dB, 8 GHz to 18 GHz
Error from nominal phase <sup>1</sup>	$\leq$ 1.5°, DC to 4 GHz
	$\leq$ 2.0°, 4 GHz to 8 GHz
	$\leq$ 3.0°, 8 GHz to 18 GHz

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

Mechanical data				
Mating cycles				
Maximum torque				
Recommended torque				
Gauge				

 $\geq 500$ 1.70 Nm 1.10 Nm 5.28 mm to 5.32 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<sub>o</sub> / Impedance / Z<sub>o</sub> Offset Delay Length (electrical) / Offset Length Offset Loss Loss Fringing Capacitances<sup>2</sup>

50 Ω 50.3682 ps 15.10 mm 0.80 GΩ/s 0.0070 dB/ \sqrt{GHz}

<sup>2</sup> Fringing Capacitances are determined individually for each open 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

#### RoHS

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

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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RPC-N 50 Ω Open Circuit

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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 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**

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, 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 as well as in a dense data set needed for data based standard definitions. The uncertainties are smaller than in a Factory Calibration.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Calibration interval Recommendation	12 months
Packing Standard Weight	1 pce in box 44.0 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		Rev.	Engineering change number	Name		Date
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