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1/3

## **Technical Data Sheet**

## Rosenberger

## RPC-2.92

Short Circuit

## 02S12S-000S3

Electrical data	
Frequency range	
Return loss	

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

 $\leq$  1.0°, DC to 4 GHz  $\leq$  2.0°, 4 GHz to 18 GHz  $\leq$  3.0°, 18 GHz to 40 GHz

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

Mechanical data	
Mating cycles	≥ 5
Maximum torque	1.7
Recommended torque	0.9
Gauge	0.0

≥ 500 1.70 Nm 0.90 Nm 0.00 mm to 0.03 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 /  $Z_o$ Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance<sup>2</sup>

50 Ω 28.3529 ps 8.50 mm 2.40 GΩ/s 0.0118 dB/ √GHz

<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

<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.

RF\_35/09.14/6.2

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Short 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 7.2 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
Herbert Babinger	27.11.14	Markus Müller	03.11.16		j00	16-1390	Marion Striegler	03.11.16
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RF\_35/09.14/6.2

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