

35/09.14/6.2

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Technical Data Sheet

RPC-N 50 Ω

Short Circuit Plug

Rosenberger

05S12S-000S3

Electrical data	
Frequency range	
Return loss	

DC to 18 GHz \leq 0.10 dB, DC to 4 GHz \leq 0.12 dB, 4 GHz to 8 GHz \leq 0.15 dB, 8 GHz to 18 GHz Error from nominal phase¹ \leq 1.2°, DC to 4 GHz \leq 1.5°, 4 GHz to 8 GHz \leq 2.5°, 8 GHz to 18 GHz

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

Mechanical data
Mating cycles
Maximum torque
Recommended torque
Gauge

≥ 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_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance²

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

² Short Inductances are determined individually for each Short 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
	compliant

RoHS

З Temperature range over which these specification are valid.

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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Rosenberger Hochfrequenztechnik GmbH & Co. KG				
P.O.Box 1260	D-84526 Tittmoning	Germany		
www.rosenberge	r.de			

Tel. : +49 8684 18-0 Email : info@rosenberger.de