

35/09.14/6.2

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Technical Data Sheet

RPC-3.50

Short Circuit Jack

Rosenberger

03K12S-001D3

Electrical data	
Frequency range	
Return loss	

DC to 26.5 GHz
\leq 0.10 dB, DC to 4 GHz
\leq 0.12 dB, 4 GHz to 8 GHz
\leq 0.20 dB, 8 GHz to 26.5 GHz
\leq 1.0°, DC to 4 GHz
\leq 1.5°, 4 GHz to 8 GHz
\leq 2.0°, 8 GHz to 26.5 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 0.90 Nm 0.00 mm to 0.04 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 16.6782 ps 5.00 mm 2.36 GΩ/s 0.0111 dB/ √GHz

² Short Inductances are determined individually for each Short circuit and are documented in a Calibration Certificate.

Environmental data Operating temperature range³ Rated temperature range of use⁴ Storage temperature range

+20 °C to +26 °C 0 °C to +50 °C -40 °C to +85 °C

compliant

RoHS

³ Temperature range over which these specification are valid.

⁴ 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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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 6.95 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	17.10.14	Martin Moder	17.10.14		c00	14-1492	Herbert Babinger	17.10.14
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