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RF_35/09.14/6.2

Technical Data Sheet

4.3-10

Short Circuit Jack

Rosenberger

64K12S-000S3

Electrical data	
Frequency range	
Return loss	

DC to 12 GHz \leq 0.15 dB, DC to 12 GHz

Error from nominal phase¹

 \leq 2.0°, DC to 4 GHz

 \leq 2.5°, 4 GHz to 6 GHz \leq 3.0°, 6 GHz to 12 GHz

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

Mechanical data	
Mating cycles	≥ 100
Maximum torque	5 Nm
Recommended torque	2 Nm
Gauge	3.10 mm to 3.20 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 Z₀ / Impedance / Z₀ Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance² 50 Ω 80.055 ps 24.00 mm 0.70 GΩ/s 0.0097 dB/√GHz

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

C to +26 °C
C to +50 °C
C to +85 °C

RoHS

compliant

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

Not available.

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 52.0 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
Marcel Panicke	02.09.16	Markus Müller	02.08.18		c00	18-1361	Marion Striegler	02.08.18
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RF 35/09.14/6.2

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