

Technical Data Sheet

F 75 Ω

Short Circuit Jack

Rosenberger

74K12S-000S3

Electrical data

Frequency range Return loss Error from nominal phase¹ DC to 4 GHz \leq 0.10 dB, DC to 4 GHz \leq 2.0°, DC to 4 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 Accommodate male contact diameter Gauge ≥ 500 6.78 Nm 2.00 Nm 0.76 mm to 0.86 mm 0.00 mm to 0.10 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 75 Ω 53.371 ps 16.00 mm 1.30 GΩ/s 0.0080 dB/ √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

³ 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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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 Rosenberger standards**, national / international standards are not available. 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 39.0 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	÷
Herbert Babinger	14.04.15	Markus Müller	30.05.17		f00	17-0890	Marion Striegler	30.05.1	17
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