

35/09.14/6.2

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Rosenberger

RPC-1.35

Short Circuit Jack

P9K12S-000D3

| Electrical data | |
|-----------------|--|
| Frequency range | |

DC to 90 GHz

Error from nominal phase1 $\leq 2.0^{\circ}$, DC to 18 GHz $\leq 3.0^{\circ}$, 18 GHz to 40 G

 \leq 3.0°, 18 GHz to 40 GHz \leq 4.0°, 40 GHz to 65 GHz \leq 5.0°, 65 GHz to 90 GHz

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

| Mechanical data |
|--------------------|
| Mating cycles |
| Maximum torque |
| Recommended torque |
| Gauge |

≥ 3000 1.65 Nm 0.90 Nm 0.003 mm to 0.020 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_0 / Impedance / Z_0 Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance² 50 Ω 16.678 ps 5.00 mm 5.95 GΩ/s 0.0172 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.

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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Technical Data Sheet

RPC-1.35 Short Circuit Jack

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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 5.6 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 | 22.08.17 | Las Ramtke | 18.11.19 | | b00 | 19-2148 | Marion Striegler | 18.11.19 |
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