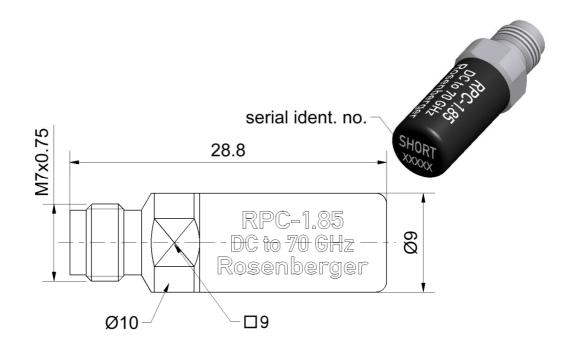
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Technic	al Data Sheet	Rosenberger			
RPC-1.85	Short Circuit Jack	08K12S-000S3			



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to Mechanically compatible with

IEC 61169-32 RPC-2.40

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts
Center conductor
Outer conductor

Material Plating

Beryllium copper Gold, min. 1.27 µm, over nickel

Stainless steel Passivated

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1/3

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RF 35/05.10/6.0

Technical Data Sheet Rosenberger

RPC-1.85

Short Circuit Jack

08K12S-000S3

Electrical data

Frequency range DC to 70 GHz

Return loss \leq 0.20 dB, DC to 4 GHz

 \leq 0.30 dB, 4 GHz to 40 GHz \leq 0.40 dB, 40 GHz to 70 GHz

Error from nominal phase¹ $\leq 2.0^{\circ}$, DC to 4 GHz

≤ 5.0°, 4 GHz to 40 GHz ≤ 8.0°, 40 GHz to 70 GHz

Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Maximum torque} & 1.65 \text{ Nm} \\ \text{Recommended torque} & 0.90 \text{ Nm} \\ \end{array}$

Gauge 0.00 mm to 0.03 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.

 $\begin{array}{lll} \mbox{Offset $Z_{\rm o}$ / Impedance / $Z_{\rm o}$} & \mbox{50 } \Omega \\ \mbox{Offset Delay} & \mbox{16.415 ps} \\ \mbox{Length (electrical) / Offset Length} & \mbox{4.92 mm} \\ \mbox{Offset Loss} & \mbox{4.17 $G\Omega/s$} \\ \mbox{Loss} & \mbox{0.0119 dB/\sqrt{GHz}} \end{array}$

Short Inductance²

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

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Page

2/3

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

² Short Inductance are determined individually for each Short Circuit and are documented in a Calibration Certificate.

³ Temperature range over which these specifications 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.

RF_35/05.10/6.0

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Technic	al Data Sheet	Rosenberger				
RPC-1.85	Short Circuit	08K12S-000S3				

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 7.3 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	26/08/04	Martin Moder	06.05.20		h00	20-0004	M.Ruf	06.05.20
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3/3