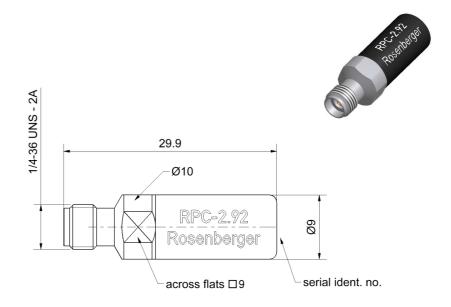
Technical Data Sheet RPC-2.92 Open Circuit Jack Open Circuit Data Sheet RPC-2.92 Open Circuit Data Sheet RPC-2.92 Open Circuit



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

Interface

According to Mechanically compatible with

IEC 61169-35 RPC-3.50 and SMA

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts
Center conductor
Outer conductor
Dielectric

Material Plating

CuBe Gold, min. 1.27 µm, over nickel Stainless steel Passivated

PS

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RF_35/09.14/6.2

Technical Data Sheet Rosenberger

RPC-2.92

Open Circuit Jack

02K12L-000S3

Electrical data

Frequency range DC to 40 GHz

Return loss \leq 0.10 dB, DC to 4 GHz

 \leq 0.15 dB, 4 GHz to 18 GHz \leq 0.20 dB, 18 GHz to 40 GHz

Error from nominal phase¹ $\leq 1.0^{\circ}$, DC to 4 GHz

≤ 2.0°, 4 GHz to 18 GHz ≤ 3.0°, 18 GHz to 40 GHz

Mechanical data

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.

 $\begin{array}{lll} \text{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \text{Offset Delay} & 25.0173 \ \text{ps} \\ \text{Length (electrical) / Offset Length} & 7.50 \ \text{mm} \\ \text{Offset Loss} & 2.40 \ \text{G}\Omega/\text{s} \\ \text{Loss} & 0.0104 \ \text{dB/} \sqrt{\text{GHz}} \end{array}$

Fringing Capacitances²

Environmental data

Operating temperature range³ +20 °C to +26 °C Rated temperature range of use⁴ 0 °C to +50 °C Storage temperature range -40 °C to +85 °C

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¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

² Fringing Capacitances are determined individually for each open circuit and are documented in a Calibration Certificate.

³ Temperature range over which these specification are valid.

This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

Technical Data Sheet		Rosenberger			
RPC-2.92	Open Circuit	02K12L-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

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
Docking	
Packing	
Standard	1 pce in box
Weight	6.3 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	26.11.14	Markus Müller	04.11.16	h00	16-1390	Marion Striegler	04.11.16
			140				 _

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