

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

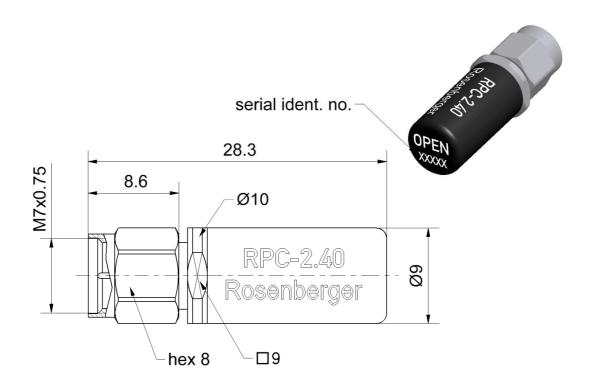
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Technical Data Sheet		Rosenberger		
RPC-2.40	Open Circuit	09S12L-000S3		



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

# Interface

According to Mechanically compatible with

IEC 61169-40 RPC-1.85

# **Documents**

Application note

AN001 "Calibration Services"

# Material and plating

Connector parts
Center conductor
Outer conductor
Coupling nut
Dielectric

MaterialPlatingCuBeGold, min. 1.27 μm, over nickelStainless steelPassivatedPSPassivated

Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de

Tel. : +49 8684 18-0 Email : info@rosenberger.de Page

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Rosenberger
09S12L-000S3

RPC-2.40

**Open Circuit** Plug

**Technical Data Sheet** 

Electrical data

Frequency range DC to 50 GHz

 $\leq$  0.15 dB, DC to 4 GHz Return loss

> $\leq$  0.20 dB, 4 GHz to 26.5 GHz  $\leq$  0.25 dB, 26.5 GHz to 50 GHz

Error from nominal phase<sup>1</sup>  $\leq$  2.0°, DC to 4 GHz

> ≤ 4.0°, 4 GHz to 26.5 GHz  $\leq$  6.0°, 26.5 GHz to 50 GHz

#### Mechanical data

Mating cycles ≥ 500 Maximum torque 1.65 Nm Recommended torque 0.90 Nm

0.00 mm to 0.03 mm Gauge

#### General standard definition

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<sub>o</sub> / Impedance / Z<sub>o</sub>  $50 \Omega$ Offset Delay 20.0140 ps Length (electrical) / Offset Length 6.00 mm Offset Loss  $3.20~G\Omega/s$ Loss 0.0111 dB/√GHz

Fringing Capacitances<sup>2</sup>

# Environmental data

Operating temperature range<sup>3</sup> +20 °C to +26 °C Rated temperature range of use<sup>4</sup> 0 °C to +50 °C Storage temperature range -40 °C to +85 °C

RoHS compliant

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Email: info@rosenberger.de

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<sup>&</sup>lt;sup>1</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitance

<sup>&</sup>lt;sup>2</sup> Fringing Capacitances are determined individually for each Open Circuit and are documented in a Calibration Certificate.

<sup>&</sup>lt;sup>3</sup> Temperature range over which these specifications are valid.

<sup>&</sup>lt;sup>4</sup> This range is underneath and above the operating temperature range, within the Open 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 6.7 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	08.09.04	Martin Moder	24.03.15		f00	14-1492	Herbert Babinger	24.03.15
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