



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

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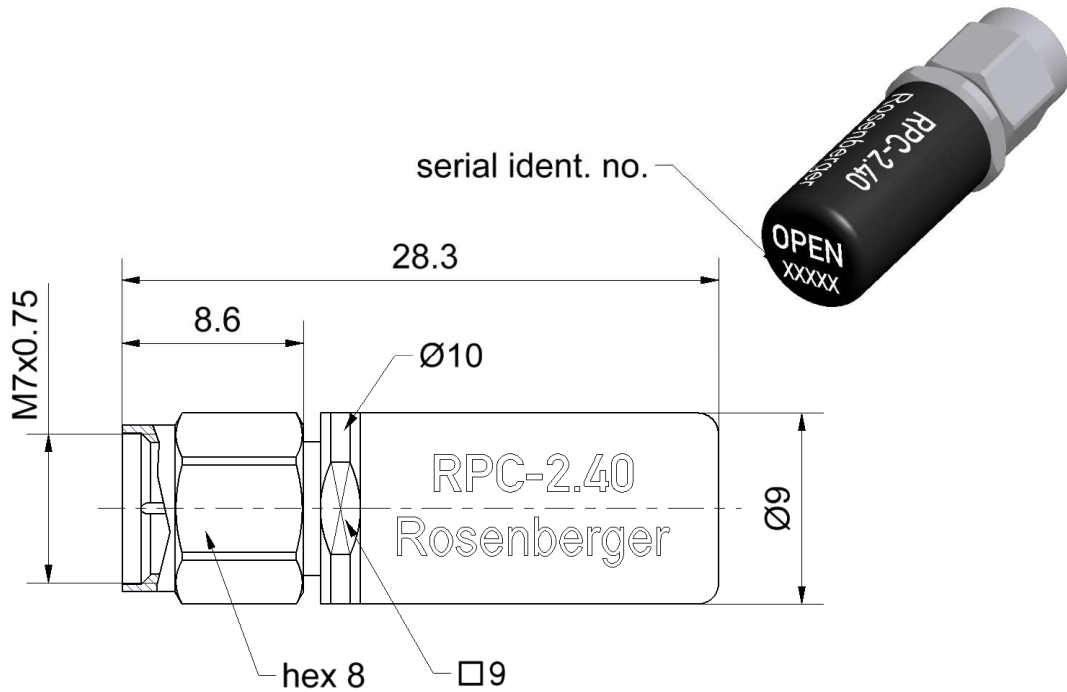
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RPC-2.40

Open Circuit  
Plug

**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

**Material**

CuBe  
Stainless steel  
Stainless steel  
PS

**Plating**

Gold, min. 1.27 µm, over nickel  
Passivated  
Passivated

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RPC-2.40 Open Circuit Plug

**09S12L-000S3**

**Electrical data**

Frequency range	DC to 50 GHz
Return loss	≤ 0.15 dB, DC to 4 GHz ≤ 0.20 dB, 4 GHz to 26.5 GHz ≤ 0.25 dB, 26.5 GHz to 50 GHz
Error from nominal phase <sup>1</sup>	≤ 2.0°, DC to 4 GHz ≤ 4.0°, 4 GHz to 26.5 GHz ≤ 6.0°, 26.5 GHz to 50 GHz

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

**Mechanical data**

Mating cycles	≥ 500
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.03 mm

**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 $Z_o$ / Impedance / $Z_o$	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/ $\sqrt{\text{GHz}}$
Fringing Capacitances <sup>2</sup>	

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

**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

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

<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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