



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!



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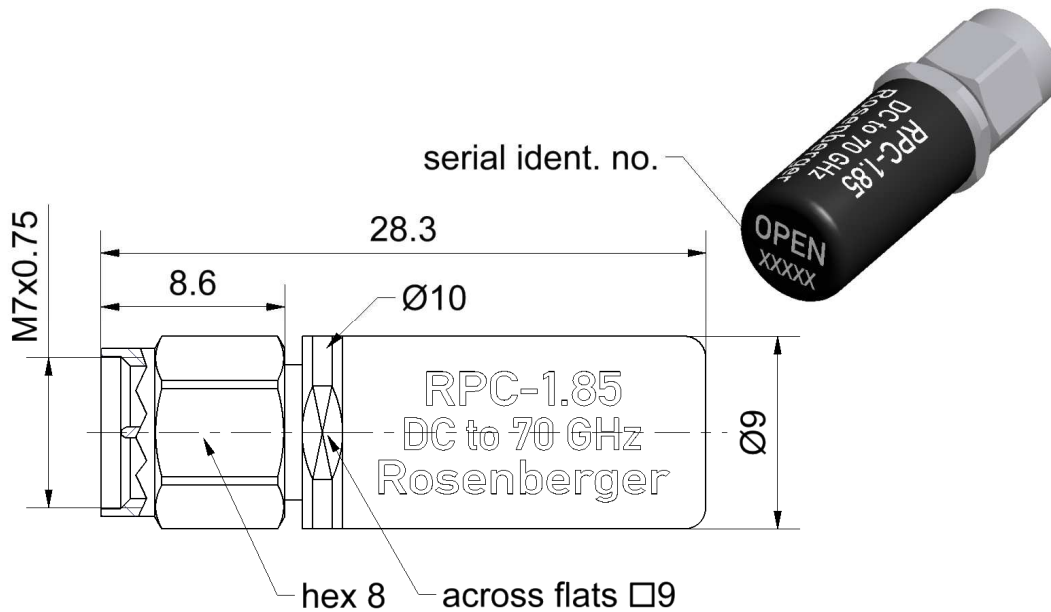
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RPC-1.85

Open Circuit
Plug

08S12L-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
Coupling nut
Dielectric

Material

Beryllium copper
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Passivated

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RF_35/05:10/6.0

Electrical data

Frequency range	DC to 70 GHz
Return loss	≤ 0.20 dB, DC to 4 GHz
	≤ 0.30 dB, 4 GHz to 40 GHz
	≤ 0.40 dB, 40 GHz to 70 GHz
Error from nominal phase ¹	≤ 2.0°, DC to 4 GHz
	≤ 5.0°, 4 GHz to 40 GHz
	≤ 8.0°, 40 GHz to 70 GHz

¹ 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_0 / Impedance / Z_0	50 Ω
Offset Delay	16.680 ps
Length (electrical) / Offset Length	5.00 mm
Offset Loss	3.75 G Ω /s
Loss	0.0109 dB/ $\sqrt{\text{GHz}}$
Fringing Capacitances ²	

² Fringing Capacitances are determined individually for each Open 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 specifications are valid.

⁴ This range is underneath and above the operating temperature range, within the Open Circuit is fully functional and could be used without damage.

