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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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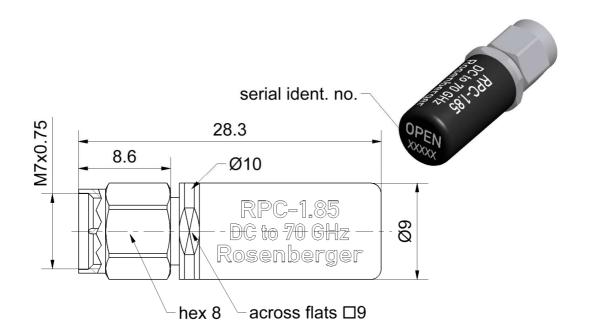
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Technical Data Sheet		Rosenberger			
RPC-1.85	Open Circuit Plug	08S12L-000S3			



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 Plating

Beryllium copper Gold, min. 1.27 µm, over nickel Stainless steel Passivated Passivated

PS

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1/3

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# RF 35/05.10/6.0

## Technical Data Sheet Rosenberger

RPC-1.85

Open Circuit

08S12L-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 phase<sup>1</sup>  $\leq 2.0^{\circ}$ , DC to 4 GHz

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

### Mechanical data

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.

 $\begin{array}{ll} \mbox{Offset $Z_{\rm o}$ / Impedance / $Z_{\rm o}$} & 50 \ \Omega \\ \mbox{Offset Delay} & 16.680 \ ps \\ \mbox{Length (electrical) / Offset Length} & 5.00 \ mm \\ \mbox{Offset Loss} & 3.75 \ \mbox{G}\mbox{/s} \\ \mbox{Loss} & 0.0109 \ \mbox{dB}\mbox{/} \mbox{GHz} \\ \end{array}$ 

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

<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.

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 1 pce in box Weight 6.8 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	24.03.15	24.03.15		14-1492	Herbert Babinger		24.03.15
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3/3