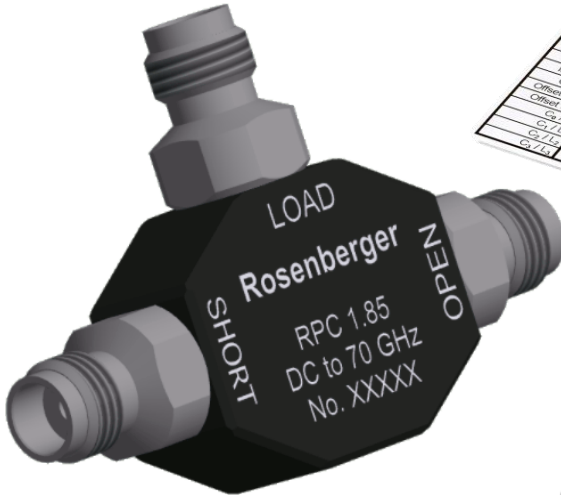
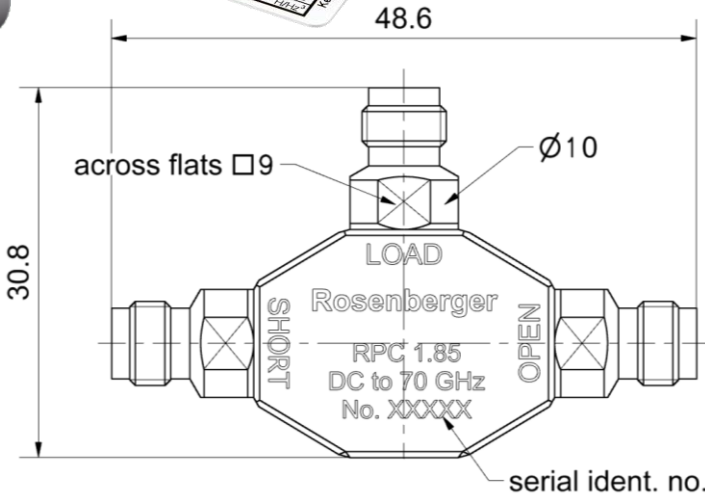


Technical Data Sheet		Rosenberger	
RPC-1.85	Calibration Kit Jack	08K30R-MSOS3	
  			
All dimensions are in mm; tolerances according to ISO 2768 m-H			
Interface According to Mechanically compatible with IEC 61169-32 RPC-2.40			
Contents and Documentation This kit is delivered with • Standard Definitions Card Printed Standard Definitions that can be used on nearly all Vector Network Analyzers • Certificate of Testing • Hard Shell Case • Protection Caps • User Manual			
Material and plating Connector parts Center conductor Outer conductor Body Dielectric Substrate Material CuBe Stainless steel Aluminum PS Al₂O₃ Plating Gold, min. 1.27 µm, over nickel Passivated black anodized			
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.com		Tel. : +49 8684 18-0 Email : info@rosenberger.com	
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Electrical data

Frequency range DC to 70.0 GHz

Open

Error from nominal phase¹

- ≤ 2.0°, DC to 4 GHz
- ≤ 5.0°, 4 GHz to 26.5 GHz
- ≤ 7.0°, 26.5 GHz to 50 GHz
- ≤ 10.0°, 50 GHz to 70 GHz

Short

Error from nominal phase²

- ≤ 2.0°, DC to 4 GHz
- ≤ 5.0°, 4 GHz to 26.5 GHz
- ≤ 7.0°, 26.5 GHz to 50 GHz
- ≤ 10.0°, 50 GHz to 70 GHz

Load

Return loss

- ≥ 35.0 dB, DC to 4 GHz
- ≥ 25.0 dB, 4 GHz to 26.5 GHz
- ≥ 22.0 dB, 26.5 GHz to 50 GHz
- ≥ 20.0 dB, 50 GHz to 70 GHz

DC Resistance 50 Ω ± 0.5 Ω

Power handling (at 25 °C, sea level) ≤ 0.5 W, derate by 0.005 W/K

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

² The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance

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 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.

Open

Offset Z₀ / Impedance / Z₀ 50 Ω

Offset Delay 16.678 ps

Length (electrical) / Offset Length 5.00 mm

Offset Loss 3.75 GΩ/s

Loss 0.0109 dB/√GHz

Fringing Capacitances

C ₀ =	1.70000 × 10 ⁻¹⁵ F	/	1.70000 fF
C ₁ =	170.000 × 10 ⁻²⁷ F/Hz	/	0.17000 fF /GHz
C ₂ =	-6.30000 × 10 ⁻³⁶ F/Hz ²	/	-0.00630 fF /GHz ²
C ₃ =	0.04000 × 10 ⁻⁴⁵ F/Hz ³	/	0.00004 fF /GHz ³

Technical Data Sheet				Rosenberger																																																																																																											
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Short Offset Z_0 / Impedance / Z_0 Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance 50 Ω 16.678 ps 5.00 mm 4.17 GΩ/s 0.0121 dB/ $\sqrt{\text{GHz}}$ $L_0 = -21.0000 \times 10^{-12} \text{ H}$ / -21.000 pH $L_1 = 700.000 \times 10^{-24} \text{ H/Hz}$ / 0.70000 pH/GHz $L_2 = -15.0000 \times 10^{-33} \text{ H/Hz}^2$ / -0.01500 pH/GHz² $L_3 = 0.10000 \times 10^{-42} \text{ H/Hz}^3$ / 0.00010 pH/GHz³ <tr><td colspan="8"> Load Offset Z_0 / Impedance / Z_0 Offset Delay Length (electrical) / Offset Length Offset Loss Loss 50 Ω 0.0000 ps 0.000 mm 0.00 GΩ/s 0.0000 dB/ $\sqrt{\text{GHz}}$ <tr><td colspan="8"> Environmental data Operating temperature range³ Rated temperature range of use⁴ Storage temperature range RoHS + 20 °C to +26 °C 0 °C to +50 °C - 40 °C to +85 °C compliant <tr><td colspan="8"> ³ Temperature range over which these specifications are valid. ⁴ This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage <tr><td colspan="8"> Declaration of documentation Standard delivery for this kit includes Test Results. 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