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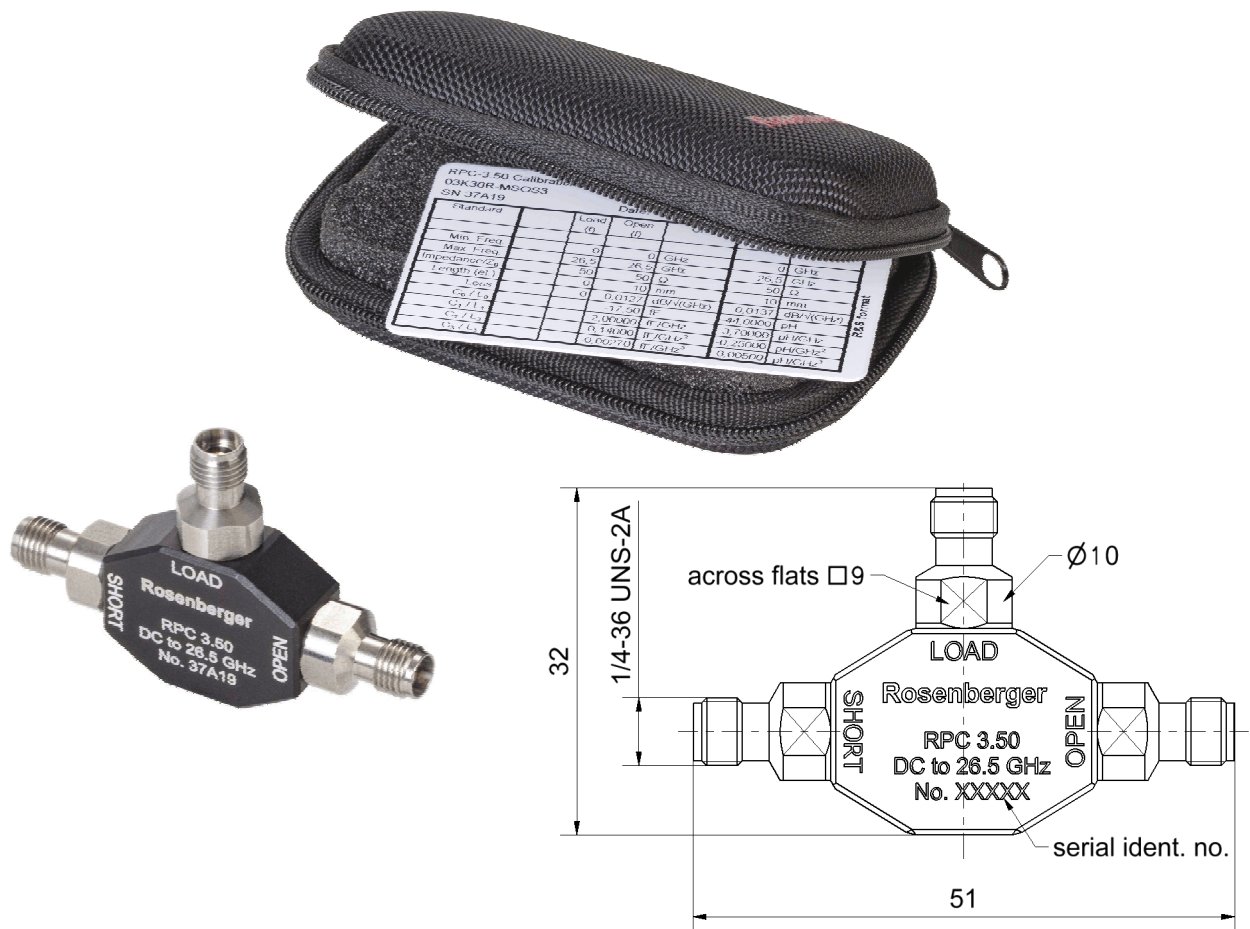
Technical Data Sheet

Rosenberger

RPC-3.50

Calibration Kit
Jack

03K30R-MSOS3



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

Interface

According to
Mechanically compatible with

IEC 61169-23
RPC-2.92 and SMA

Contents and Documentation

This kit is delivered with

- **Standard Definitions Card**
Printed Standard Definitions that can be used on nearly all Vector Network Analyzers
- **Test Results Documentation**
- **Hard Shell Case**

Material and plating

Connector parts

Center conductor
Outer conductor
Body
Dielectric
Substrate

Material

Beryllium copper
Stainless steel
Aluminum
PS
Al₂O₃

Plating

Gold, min. 1.27 µm, over nickel
Passivated
black anodized

Electrical data

Frequency range DC to 26.5 GHz

Open

Error from nominal phase¹

$\leq 1.0^\circ$, DC to 4 GHz
$\leq 2.0^\circ$, 4 GHz to 8 GHz
$\leq 3.0^\circ$, 8 GHz to 26.5 GHz

Short

Error from nominal phase²

$\leq 1.0^\circ$, DC to 4 GHz
$\leq 2.0^\circ$, 4 GHz to 8 GHz
$\leq 3.0^\circ$, 8 GHz to 26.5 GHz

Load

Return loss

≥ 40.0 dB, DC to 4 GHz
≥ 35.0 dB, 4 GHz to 8 GHz
≥ 30.0 dB, 8 GHz to 26.5 GHz

DC Resistance 50 $\Omega \pm 0.5 \Omega$

Power handling ≤ 0.5 W

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 1.70 Nm

Recommended torque 0.90 Nm

Gauge 0.00 mm to 0.08 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 Z_0 / Impedance / Z_0	50 Ω	
Offset Delay	33.356 ps	
Length (electrical) / Offset Length	10.00 mm	
Offset Loss	2.20 G Ω /s	
Loss	0.0127 dB/ $\sqrt{\text{GHz}}$	
Fringing Capacitances	$C_0 = -17.500 \times 10^{-15}$ F	/ -17.500 fF
	$C_1 = -2000.0 \times 10^{-27}$ F/Hz	/ -2.0000 fF /GHz
	$C_2 = 140.00 \times 10^{-36}$ F/Hz	/ 0.1400 fF /GHz ²
	$C_3 = -2.7000 \times 10^{-45}$ F/Hz	/ -0.0027 fF /GHz ³

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RPC-3.50		Calibration Kit Jack		03K30R-MSOS3																																																																																																			
Short Offset Z_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss Short Inductance 50 Ω 33.356 ps 10.00 mm 2.36 GΩ/s 0.0137 dB/$\sqrt{\text{GHz}}$ $L_0 = -44.000 \times 10^{-12} \text{ H}$ / -44.000 pH $L_1 = 3700.0 \times 10^{-24} \text{ H/Hz}$ / 3.7000 pH /GHz $L_2 = -250.00 \times 10^{-33} \text{ H/Hz}^2$ / -0.2500 pH /GHz² $L_3 = 5.0000 \times 10^{-42} \text{ H/Hz}^3$ / 0.0050 pH /GHz³ <tr><td colspan="8"> Load Offset Z_o / Impedance / Z_o 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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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. The documentation issued reports which quantities were tested individually, traceable to national / international standards. 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