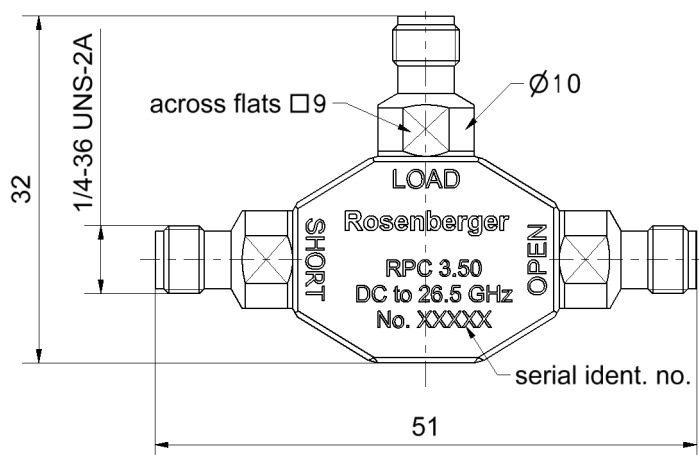
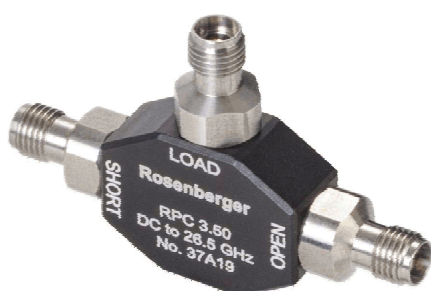




All dimensions are in mm; tolerances according to ISO 2768 m-H

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_o / Impedance / Z_o	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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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger			
RPC-3.50		Calibration Kit Jack		03K30R-MSOS3			
Short							
Offset Z _o / Impedance / Z _o		50 Ω					
Offset Delay		33.356 ps					
Length (electrical) / Offset Length		10.00 mm					
Offset Loss		2.36 GΩ/s					
Loss		0.0137 dB/√GHz					
Short Inductance		L ₀ = -44.000 x 10 ⁻¹² H / -44.000 pH					
		L ₁ = 3700.0 x 10 ⁻²⁴ H/Hz / 3.7000 pH /GHz					
		L ₂ = -250.00 x 10 ⁻³³ H/Hz ² / -0.2500 pH /GHz ²					
		L ₃ = 5.0000 x 10 ⁻⁴² H/Hz ³ / 0.0050 pH /GHz ³					
Load							
Offset Z _o / Impedance / Z _o		50 Ω					
Offset Delay		0.0000 ps					
Length (electrical) / Offset Length		0.000 mm					
Offset Loss		0.00 GΩ/s					
Loss		0.0000 dB/√GHz					
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 calibration kit is fully functional and could be used without damage							
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. Model based standard definitions of the calibration standards are reported in Agilent / Keysight, Rohde & Schwarz and Anritsu compatible VNA format.							
Inspection interval							
Recommendation		12 months					
Packing							
Standard		1 pce in bag					
Weight		24.7 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
Marcel Panicke	07.01.16	Markus Müller	02.05.18	d00	18-0787	Marion Striegler	02.05.18
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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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