

# R&S® ZV-Z36 Calibration Kit Specifications



**75** Years of  
Driving  
Innovation

  
**ROHDE & SCHWARZ**

# Specifications

Specifications apply under the following conditions: 30 minutes warm-up time at ambient temperature, specified environmental conditions met, calibration cycle adhered to, and all internal automatic adjustments performed. "Typical values" are designated with the abbreviation "typ." These values are verified during the final test but are not assured by Rohde & Schwarz. "Nominal values" are design parameters that are not assured by Rohde & Schwarz. These values are verified during product development but are not specifically tested during production.

Rohde & Schwarz equipment is designed for reliable operation up to an altitude of 3000 m above sea level, and for transport up to an altitude of 4500 m above sea level.

## Measurement range

Connectors		2.4 mm female and 2.4 mm male
Impedance		50 $\Omega$
Frequency range		0 Hz to 50 GHz

## Effective system data

The specified effective system data are established after performing a suitable system error calibration, e.g. TOSM, at a vector network analyzer R&S®ZVA, R&S®ZVB, or R&S®ZVT, using the characteristic data of the calibration kit, which are stored on a provided USB-stick. This data is valid between +18 °C and +28 °C, at a measurement bandwidth of 10 Hz, and a nominal power of –10 dBm at the calibration ports. The calibration kit is fully functional down to 0 Hz, with effective system data as specified below, although the data is only verified for frequencies as stated.

Directivity	10 MHz to 700 MHz	>30 dB, typ. 40 dB
	700 MHz to 24 GHz	>40 dB, typ. 46 dB
	24 GHz to 50 GHz	>30 dB, typ. 36 dB
Source match	10 MHz to 700 MHz	>30 dB, typ. 40 dB
	700 MHz to 24 GHz	>34 dB, typ. 40 dB
	24 GHz to 50 GHz	>26 dB, typ. 36 dB
Reflection tracking	10 MHz to 700 MHz	<0.3 dB, typ. 0.1 dB
	700 MHz to 24 GHz	<0.3 dB, typ. 0.1 dB
	24 GHz to 50 GHz	<0.3 dB, typ. 0.2 dB
Load match	10 MHz to 700 MHz	>30 dB, typ. 40 dB
	700 MHz to 24 GHz	>30 dB, typ. 36 dB
	24 GHz to 50 GHz	>26 dB, typ. 33 dB
Transmission tracking	10 MHz to 700 MHz	<0.2 dB, typ. 0.1 dB
	700 MHz to 24 GHz	<0.1 dB, typ. 0.05 dB
	24 GHz to 50 GHz	<0.3 dB, typ. 0.2 dB

## General data

Temperature loading	operating temperature range	+18 °C to +28 °C
	permissible temperature range	0 °C to +50 °C
	storage temperature range	-40 °C to +70 °C
		in line with IEC 60068-2-1 and IEC 60068-2-2
Calibration interval		1 year
Dimensions (W x H x D)		336 mm x 66 mm x 270 mm
		13.2 in x 2.6 in x 10.6 in
Weight		1400 g (3 lb)
Shipping weight		4 kg (9 lb)

## Ordering information

Designation	Type	Order No.
Calibration Kit 2.4 mm, 0 Hz to 50 GHz	R&S®ZV-Z36	1305.5900.02

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