

R&S® FPC-Z10

Teaching Kit

Specifications

Features

Up/downconverter		
All stages can be measured separately by changing the position of a jumper.		
LO frequency mixer	selectable by jumper	nom. 636.5 MHz or nom. 233.5 MHz
IF frequency		nom. 200 MHz
Attenuator	selectable by DIP switch	nom. 0 dB to 31.5 dB
Amplifier	upconverter	
	gain	nom. 19 dB
	P1dB	nom. 10 dBm
	downconverter	
	gain	nom. 19 dB
P1dB	nom. -7 dBm	
Bandpass filter	center frequency	nom. 836.5 MHz
	bandwidth	nom. 20 MHz

I/Q baseband section		
I/Q output	I/Q demodulator	nom. 0 V DC, max. 1 V (V_{pp})
I/Q input	I/Q modulator	max. ± 1 V

Calibration kit		
Standards	selectable by jumper	open, short, match, through

RF input		
Impedance	RF connections	nom. 50 Ω
Connector		SMA female
Maximum input level	RF inputs	nom. 0 dBm
	baseband inputs	nom. ± 1 V

General data

Power rating		
Power supply		5 V ± 10 %
Power consumption	baseband disabled	nom. 450 mA
	baseband enabled	nom. 750 mA
Power connector		USB mini/USB micro
Environmental conditions		
Temperature	operating temperature range	+20 °C to +30 °C
	storage temperature range	-20 °C to +70 °C
Electromagnetic compatibility (EMC)	EMC directive 2014/30/EU	in line with CISPR 11/EN 55011 group 1 class A (emission)
Dimensions (W x H x D)	without feet	207 mm x 131 mm x 31 mm (8.1 in x 5.1 in x 1.2 in)
Weight		0.26 kg (0.57 lb)

Ordering information

Designation	Type	Order No.
Teaching kit	R&S®FPC-Z10	1328.7338.02
Accessories supplied: carrying case, USB cable for power supply		

Warranty		
Base unit		1 year

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Data without tolerance limits is not binding | Subject to change

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