ZC90

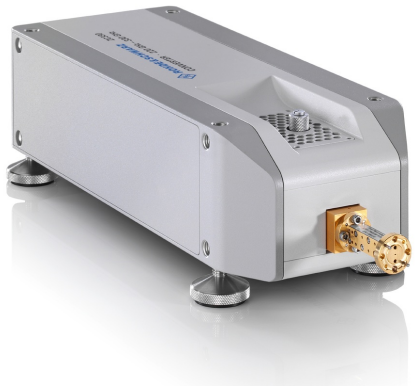
ZC90 Millimeter-Wave Converters

Part-No.: 21000062

Product Description

Key Features:

- variable output power
- wide dynamic range
- wide frequency range
- highly stable measurement
- convenient handling



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Technical Specifications

Test Port	
Frequency Range [GHz]	60 to 90
Port Type	WR12 (UG387/UM)
Output Power [dBm (typ.)]	>+7, +10 dBm (typ.)
Output Power Attenuation [dB]	0 to 60
Input Power Damage Level [dBm]	+20
Stability (Magnitude [dB] / Phase [°] (typ.))	typ.< 0.2 dB and typ. < 2°
Source Input (RF IN)	
Frequency Range [GHz]	10 to 15
Port Type	2.92 mm, female
Input Power Range [dBm]	+5 to +10
Local Oscillator Input (LO IN)	
Frequency Range [GHz]	10 to 15
Port Type	+5 to +10
Input Power Range [dBm]	+5 to +10
Measurement Output (MEAS OUT)	
Frequency Range [MHz]	5 to 2000
Port Type	3.5 mm, female
Reference Output (REF OUT)	
Frequency Range [MHz]	5 to 2000
Port Type	3.5 mm, female
System Characteristics	
Source match (without system error correction)	> 20 dB (n.trc.)[1]
Directivity (without system error correction)	> 20 dB (n.trc.)[1]
Dynamic Range [dB]	> 100, 115

Dynamic range is defined as the difference between the data trace of the transmission magnitude with maximum test port output power and both test ports through-connected on the one hand and the RMS value of the data trace of the transmission magnitude produced by noise and crosstalk with test ports short-circuited on the other. The specification is valid without system error correction and at 10Hz measurement bandwidth. The dynamic range can be increased by using a measurement bandwidth of 1Hz.

[1] Without consideration of measurement uncertainty.

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