



ZC330

ZC330 Millimeter-Wave Converters

Part-No.: 1323.7669.02

Product Description

Key Features:

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





Technical Specifications

Test Port

Frequency Range [GHz]	220 to 330
Port Type	WM-864 (UG387/U flange compatible)
Output Power [dBm (typ.)]	220 to 320 GHz > -11 dBm (n.trc.), typ. -8 dBm 320 to 330 GHz > -12 dBm (n.trc.), typ. -9 dBm
Output Power Attenuation [dB]	0 to 40
Input Power Damage Level [dBm]	+20
Stability (Magnitude [dB] / Phase [°] (typ.))	typ. < 0.4 dB and typ. < 6°

Source Input (RF IN)

Frequency Range [GHz]	12.22 to 18.33
Port Type	2.92 mm, female
Input Power Range [dBm]	-15 to +10

Local Oscillator Input (LO IN)

Frequency Range [GHz]	9.15 to 13.73
Port Type	SMA, female
Input Power Range [dBm]	+5 to +10

Measurement Output (MEAS OUT)

Frequency Range [MHz]	5 to 2000
Port Type	SMA, female

Reference Output (REF OUT)

Frequency Range [MHz]	5 to 2000
Port Type	SMA, female

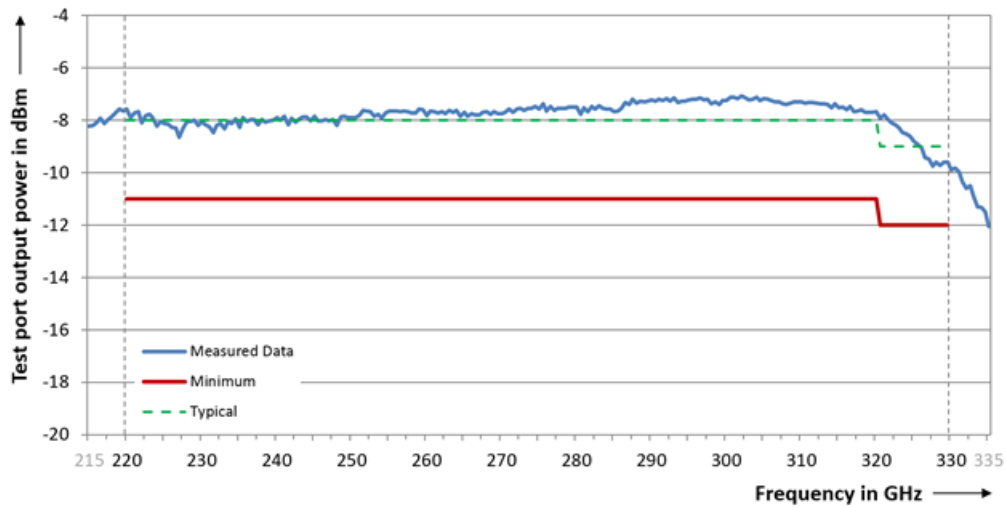
System Characteristics

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, typ. 115

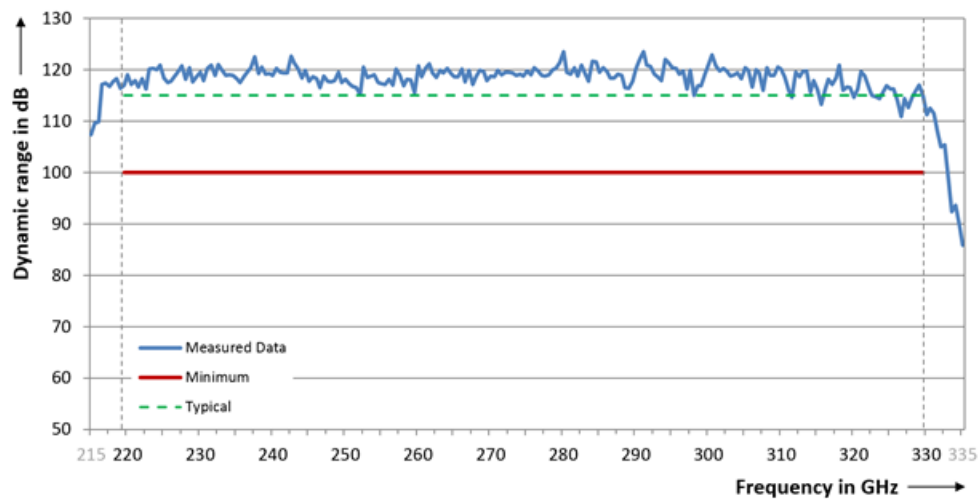
Dynamic range is defined as the difference between the data trace of the transmission magnitude with maximum test port output power and both test ports through-connected on the one hand and the RMS value of the data trace of the transmission magnitude produced by noise and crosstalk with test ports short-circuited 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.

Typical Performance



Test port output power versus frequency of the R&S@ZC330.



Dynamic range versus frequency of the R&S@ZC330

