



ZC1100

ZC1100 Millimeterwave Converters

Part-No.: 21000089

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]	750 to 1100
Port Type	WM-250 (UG387/U flange compatible)
Output Power [dBm (typ.)]	750 to 1100 GHz > -40 dBm, typ. -25 dBm
Output Power Attenuation [dB]	n.A.
Input Power Damage Level [dBm]	+0
Stability (Magnitude [dB] / Phase [°] (typ.))	typ. < 0.5 dB and typ. < 6°

Source Input (RF IN)

Frequency Range [GHz]	13.88 to 20.37
Port Type	2.92 mm, female
Input Power Range [dBm]	+5 to +10

Local Oscillator Input (LO IN)

Frequency Range [GHz]	15.62 to 22.91
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)	> 15 dB (n.trc.) ¹
Directivity (without system error correction)	> 15 dB (n.trc.) ¹
Dynamic Range [dB]	> 40, typ. 65

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