



**ZC400**

**ZC400 Millimeter-Wave Converters**

Part-No.: 1339.4064.02

**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]	260 to 400
Port Type	WM-710 (UG387/U flange compatible)
Output Power [dBm (typ.)]	> -15 dBm, typ. -10dBm
Output Power Attenuation [dB]	0 to 40
Input Power Damage Level [dBm]	+10
Stability (Magnitude [dB] / Phase [°] (typ.))	<0.5 / <6°

**Source Input (RF IN)**

Frequency Range [GHz]	14.44 to 22.22
Port Type	2.92 mm, female
Input Power Range [dBm]	+5 to +10

**Local Oscillator Input (LO IN)**

Frequency Range [GHz]	13.00 to 20.00
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.) <sup>1</sup>
Directivity (without system error correction)	> 20 dB (n.trc.) <sup>1</sup>
Dynamic Range [dB]	> 80, typ. 95

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.

<sup>1</sup> Without consideration of measurement uncertainty.



**Typical Performance**

