

Product Data Sheet

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



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Radiometer Physics

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Product Data Sheet

Technical Specifications	
Test Port	
Frequency Range [GHz]	260 to 400
Port Type	WM-710 (UG387/U flange compatible)
Output Power [dBm (typ.)]	> -15 dBm, typ10dBm
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.) ¹
Directivity (without system error correction)	> 20 dB (n.trc.) ¹
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 throughconnected 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.

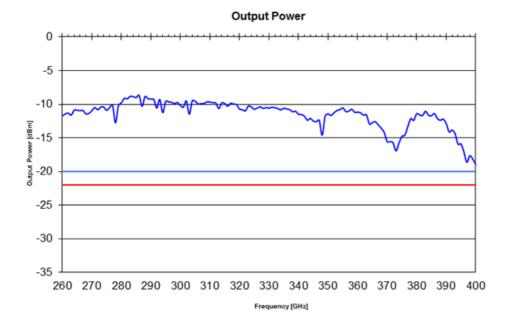
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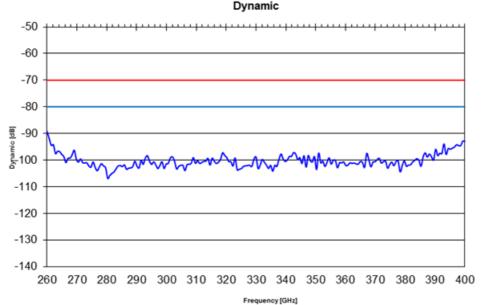
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Typical Performance





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