

Product Data Sheet

ZC78

ZC78 Millimeter-Wave Converters

Part-No.: 3626.5356.02

Product Description

Key Features:

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



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Product Data Sheet

Technical Specifications	
Test Port	
Frequency Range [GHz]	53 to 78
Port Type	WR3.6 x1.8 (UG387/U flange compatible)
Output Power [dBm (typ.)]	>+6, +12 dBm (typ.)
Output Power Attenuation [dB]	0 to 40
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]	13.25 to 19.5
Port Type	2.92 mm, female
Input Power Range [dBm]	-15 to +10
Local Oscillator Input (LO IN)	
Frequency Range [GHz]	8.83 to 13.00
Port Type	SMA, female
Input Power Range [dBm]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)	> 19 dB (n.trc.) ¹ , typ. >30 dB
Directivity (without system error correction)	> 23 dB (n.trc.) ¹ , typ. >37 dB
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.

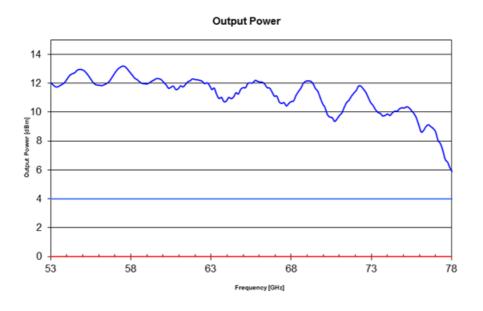
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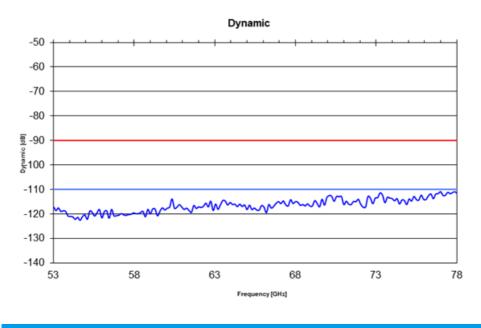
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Typical Performance





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