



**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





**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]	+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**

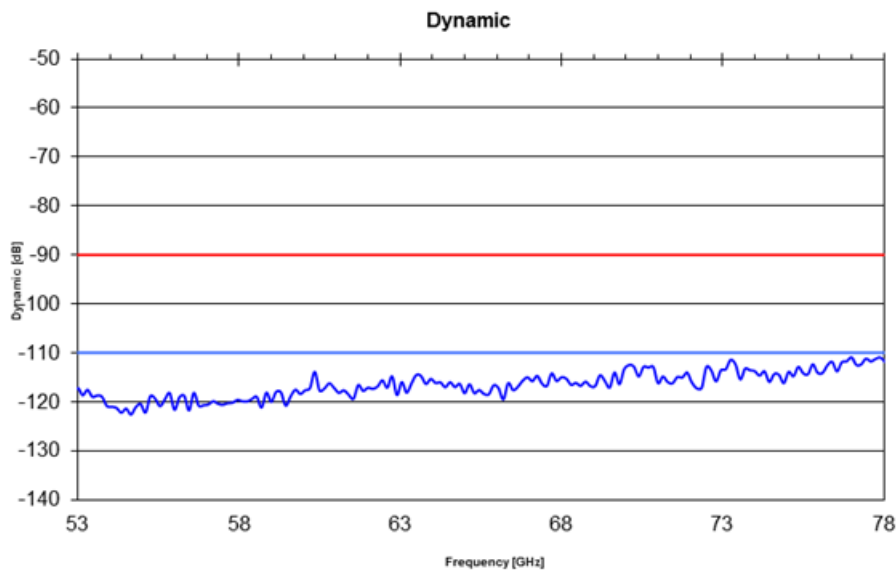
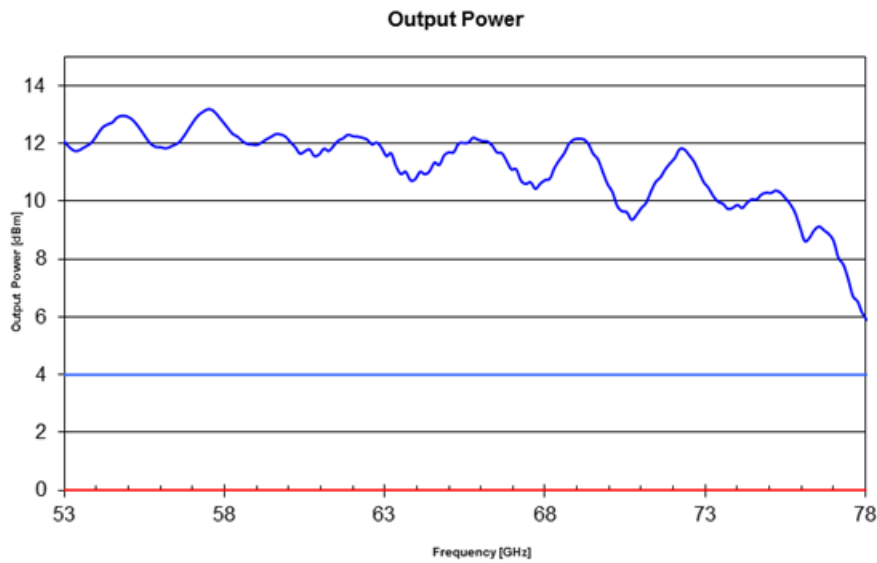
Source match (without system error correction)	> 19 dB (n.trc.) <sup>1</sup> , typ. >30 dB
Directivity (without system error correction)	> 23 dB (n.trc.) <sup>1</sup> , typ. >37 dB
Dynamic Range [dB]	> 100, typ. 115

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.

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



**Typical Performance**



**(PDF)**