Consultix 5G-in . mmWave CW Transmitter

Portable signal from 25 to 28.6 GHz

Consultix 5G test transmitter is a portable RF signal generator that brings simplicity and affordability to microwave test scenarios pertinent to 5G applications.

The RF performance of the handheld device makes it ideal for field applications as well as several laboratory use cases. Thanks to its calibrated output and wide range of operation covering frequencies from 25 GHz to 28.6 GHz

With an unprecedented output power level of up to 20 dBm, the transmitter significantly exceeds the maximum power levels attained by traditional bench-top signal generators.

The tool is engineered for maximum ease of operation. Among the embodied features are the ergonomic form factor, direct user control through 2 buttons, simple LCD screen and low power consumption that allows powering by commercial power banks for maximum field convenience and flexibility.

Performance

- 2 ppm Frequency accuracy
- 25 GHz to 28.6 GHz (up to 30 GHz overrange)
- Output power higher than bench-top equipment
- Low power consumption

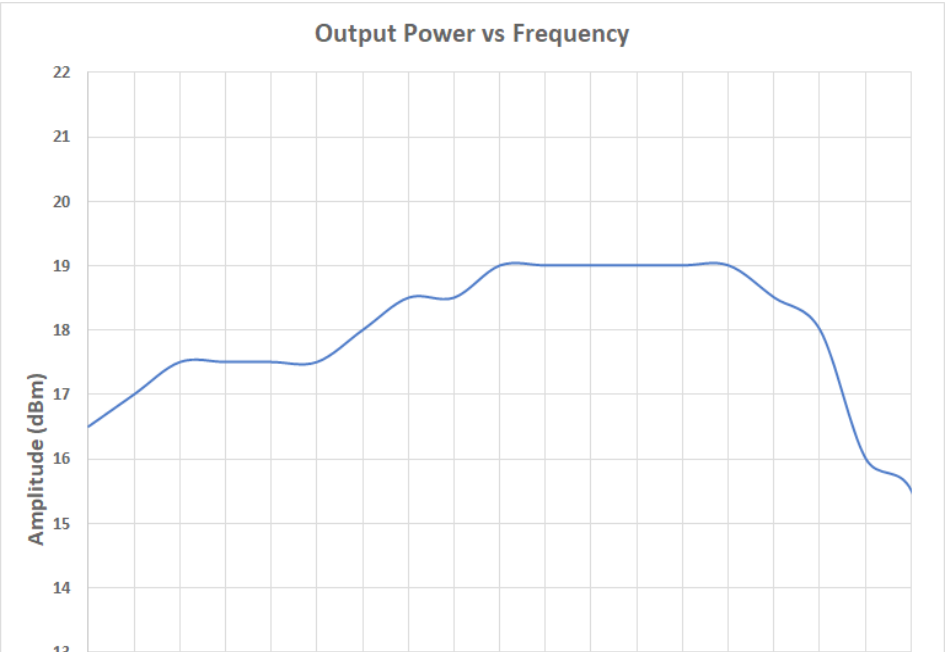
Convenience

- Entuitive user interface
- Ergonomic form factor with side handle
- 3 Kg weight
- High grade test accessories

Specifications	
RF Characteristics	
Frequency Range	25 GHz to 28.6 GHz (Overrange up to 30 GHz)
Frequency Step	1 MHz
Modulation	CW (Continuous Wave Carrier)
Frequency Settings	Up and Down Buttons
Frequency Accuracy	± 2ppm*
Output Power Level	12 dBm to 20 dBm. Refer to Output Power Table Below (Amplifier Options Available)
Level Accuracy	± 1 dB* from 25000 to 28300 MHz (± 0.5 dB with Option 5G-HLA) ± 2 dB* from 28301 to 28600 MHz (± 0.5 dB with Option 5G-HLA)
Level Stability	± 0.5 dB*
Level Settings	Fixed
Non-Harmonic Spurious	-33 dBc @27 GHz
Phase Noise	-108 dBc/Hz @ 1 MHz Offset from Carrier
RF Output Interface	Female 2.92mm (K) Connector
Power Supply	
AC Adapter	Input: 100-240 VAC, 50-60 Hz / Output: 12 VDC, 2A
DC Input	Power Jack 2.1 mm ID 5.5 mm OD
Physical	
External Dimensions	(H) 110 mm, (W) 260 mm, (D) 280 mm
Weight	3 Kg
Operating Temp	0 to 50 °C
Standard Package	Transmitter, Short Guide and AC/DC adapter

Output Power Table

Frequency (GHz)	Output power (dBm)
25	12
25.2	13
25.4	16
25.6	18
25.8	18
26	18
26.2	18
26.4	16
26.6	16
26.8	17
27	18
27.2	19
27.4	20
27.6	17
27.8	14
28	12
28.2	12
28.4	12
28.6	12



Ordering Information	
Consultix 5G Portable Signal Generator	Consultix-5G-TX
±0.5* dB Level Accuracy (from 25 to 28.6 GHz)	C5G-5G-HLA
Ultra-flexible Cable; 40 GHz, 3ft Length, 3.3 dB Insertion Loss	C5G-Acc-C29
Omnidirectional Antenna 26.5 to 40 GHz, 7.5 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA75
Omnidirectional Antenna 26.5 to 40 GHz, 3 dBi Gain, 2.92 mm K(F)	C5G-Acc-OA3
Waveguide Horn Antenna 26.5 to 40 GHz, 15 dBi Gain, 2.92 mm K(F)	C5G-Acc-HA15
High Power Amplifiers	Ask for Available Optional Amplifiers

* Accuracy is specified after warm-up time @ temperature 25 - 30 C°

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