



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

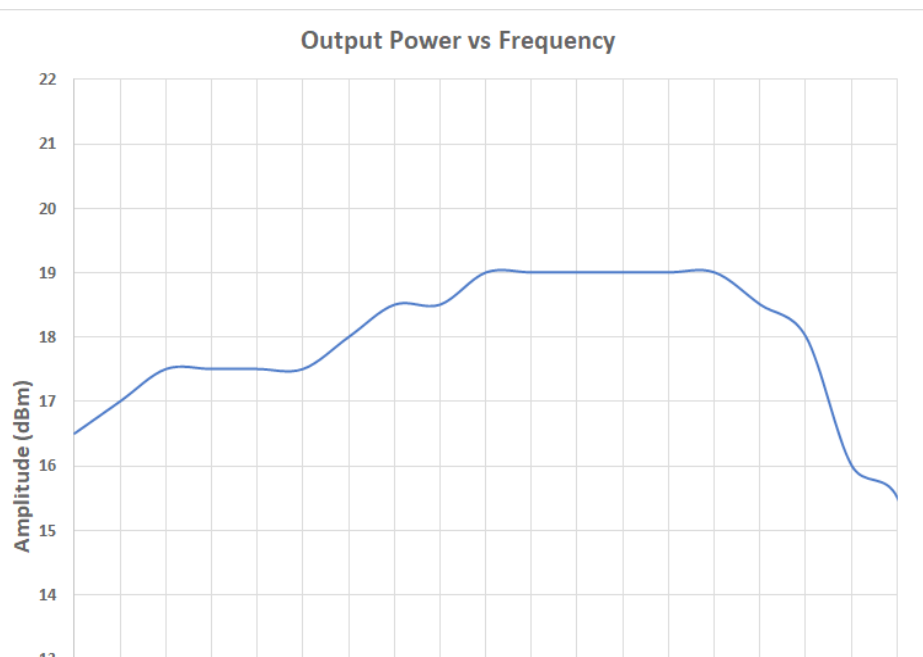
- Entuitive user interface
- Ergonomic form factor with side handle
- 3 Kg weight
- High grade test accessories



| Specifications | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RF Characteristics | |
| Frequency Range | 25 GHz to 28.6 GHz (Ovrange up to 30 GHz) |
| Frequency Step | 1 MHz |
| Modulation | CW (Continuous Wave Carrier) |
| Frequency Settings | Up and Down Buttons |
| Frequency Accuracy | $\pm 2\text{ppm}^*$ |
| Output Power Level | 12 dBm to 20 dBm. Refer to Output Power Table Below (Amplifier Options Available) |
| Level Accuracy | $\pm 1\text{ dB}^*$ from 25000 to 28300 MHz ($\pm 0.5\text{ dB}$ with Option 5G-HLA) $\pm 2\text{ dB}^*$ from 28301 to 28600 MHz ($\pm 0.5\text{ dB}$ with Option 5G-HLA) |
| Level Stability | $\pm 0.5\text{ dB}^*$ |
| 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 |
| Certifications | FCC and EN55022/CISPR 22 EMI |
| 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 |
| $\pm 0.5^*$ 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°

Find us:

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