

Product Specification Summary

Comb generator

The example comb generator is a high-performance unit that produces multiple harmonics of its 2275 MHz VCO and produces an array of frequencies up to 18.2 GHz. The VCO in the device is optimized through the use of silicon bipolar transistors and varactor diodes to produce extremely low phase noise, 1/f noise, and low post-tuning drift. The unit measures only 2.25 x 1.33 x 0.125 in. and meets MIL-E-5400 requirements for temperature, altitude, shock, vibration, and humidity. It operates from +15 VDC at 500 mA.



Key features

- Compact unit with output up to 18 GHz
- Meets MIL-E-5400 requirements for temperature, altitude, shock, vibration, and humidity
- Frequency stability of +/-50 ppm over temperature
- Comb spacing accuracy of +/-60 kHz
- Superior phase noise performance

Frequency range (GHz)	2.275 to 18.2
Comb Spacing (GHz)	2,275
Comb spacing Accuracy (kHz)	-60 to +60
In-band spurious (dB)	-60
Frequency stability (ppm)	+/-50
Phase noise (dBc/Hz)	
4.55 GHz	-64 (100 Hz offset), -94 (100 kHz offset) , -114 (1 MHz offset)
9.10 GHz	-58 (100 Hz offset), -88 (100 kHz offset), -108 (1 MHz offset)
Power supply (VDC @ mA)	+/-15 @ 500
Operating temperature range (°C)	-54 to +95
Humidity (%)	100
Altitude (ft.)	70,000
Dimensions (in.)	2.25 x 1.33 x 0.125
Weight (g)	47

Please consult the factory for detailed product specifications.

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