

## Comb Generator 1313-C5M1G



### Features

- > Quick, Pre-Test Site Validations
- > Wide Frequency Range  
5 MHz to 1 GHz
- > Battery Operated - Extended Battery Life  
Operates > 5 Hours Per Charge
- > Stable RF Output
- > Three-Year Warranty

### Description

The 1313-C5M1G Comb Generator is a radiated reference signal source for the frequency range of 5 MHz to 1 GHz, at 5 MHz intervals. It is compact, lightweight, easy to operate. The comb generator is provided with integrated Biconical antenna for frequencies up to 1000 MHz.

The 1313-C5M1G is designed to operate on battery power in order to reduce the potential for unwanted reflections caused by external cabling. When fully charged, the internal battery pack allows for continuous operation of the Comb Generator for up to 18 hours.

Using a Comb Generator, regular site checks can be performed in just a few minutes by taking readings on a few chosen output frequencies from the 1313-C5M1G, and comparing the values against your reference data. How many days, weeks or months of taking bad data could you easily avoid?

Employing the 1313-C5M1G Comb Generator for regular site checks is a cost-effective, efficient tool for ensuring the consistency and accuracy of your radiated measurement data.

### Application

Radiated emissions measurements for EMC are usually performed on an Open Area Test Site (OATS), Semi-anechoic Chamber (SAC) or Fullyanechoic Chamber (FAC). These test sites are typically calibrated annually or semi-annually by performing Normalized Site Attenuation (NSA) and SiteVSWR calibrations. Tedious and time-consuming to say the least, these calibrations can take several days.

Successful completion of the site calibrations provides a high degree of confidence that your site is in proper working order. But what if the calibration results indicate a problem? How long ago did the problem occur? Or, what if a problem occurs after the calibration? An underground cable becomes compromised. A connector no longer makes a connection. The gain of your preamplifier changes. How would you know? Without regular site checks, daily or otherwise; to a large degree, you' re flying blind.

# Comb Generator 1313-C5M1G

## Specifications

All specifications are subject to change without notice.  
 All values are typical, unless specified.

Intended Application	Radiated Reference Signal Source (for OATS, SAC, FAC, etc.)
Frequency Range	5 MHz to 1 GHz
Frequency Step Size	5 MHz
Frequency Stability	20 ppm
Amplitude Stability	$\pm 0.1$ dB
Time Stability	<1 dB over 12 Months
Charging Adapter Output	12 VDC, 1A
Battery Type	7.4V Li-On, 1500 mAh
Battery Operation	>5 Hours Typical (fully-charged battery)
External LED Indicators	Battery Level, Power On
Antenna Type	Biconical Antenna
Generator Dimensions	21 cm x 21 cm x 22.5 cm
Weight	1.7 kg

## Typical Radiated Output at 3-meter Distance

