

# CG118-100R

**Comb Generator**

## Description

CG118-100R Comb Generator serves primarily as a signal source emitting radiated reference signals. Equipped with an accompanying antenna, it functions as a self-contained signal generator, producing frequency harmonics at 100MHz intervals, usable within the range of 1GHz up to at least 18GHz. Power options include a rechargeable internal battery and an external power cable connection, enabling continuous operation for up to 8 hours when fully charged. Accessories such as a battery charger, USB cable, antennas, and additional components are packaged within a storage box.

## Application

The main purpose of a Comb Generator is to efficiently validate setups for radiated emissions testing. Its primary application lies in troubleshooting Open Area Test Sites (OATS) or chambers, where calibration is crucial before deployment for effective operation.

With the Comb Generator, test engineers can quickly and frequently verify the radiated test setup, ensuring the reliability of results. For example, issues or changes in the antenna, attenuator, or receiver are easily identified in the Comb Generator data using the same setup. This approach is useful when EMC emissions measurements for a product show variations across different testing sites.

The Comb Generator is instrumental in determining whether the variation in EMC emissions measurements is due to the test sites.

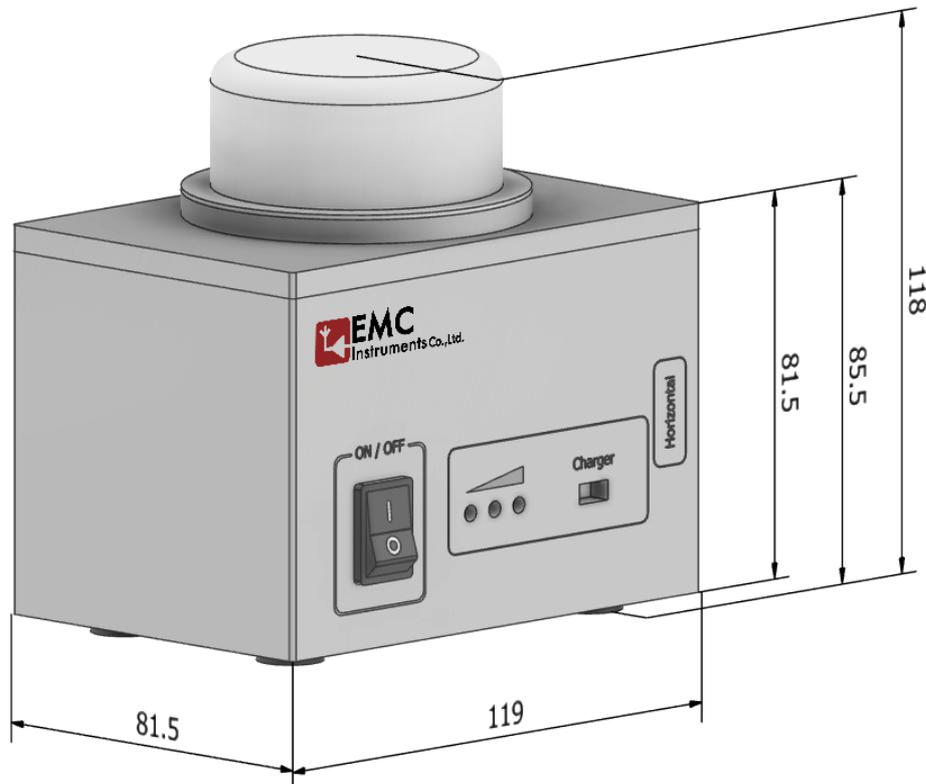
Beyond these functions, the Comb Generator is also utilized to assess the shielding effectiveness and resonance performance of enclosures designed for electronic equipment.



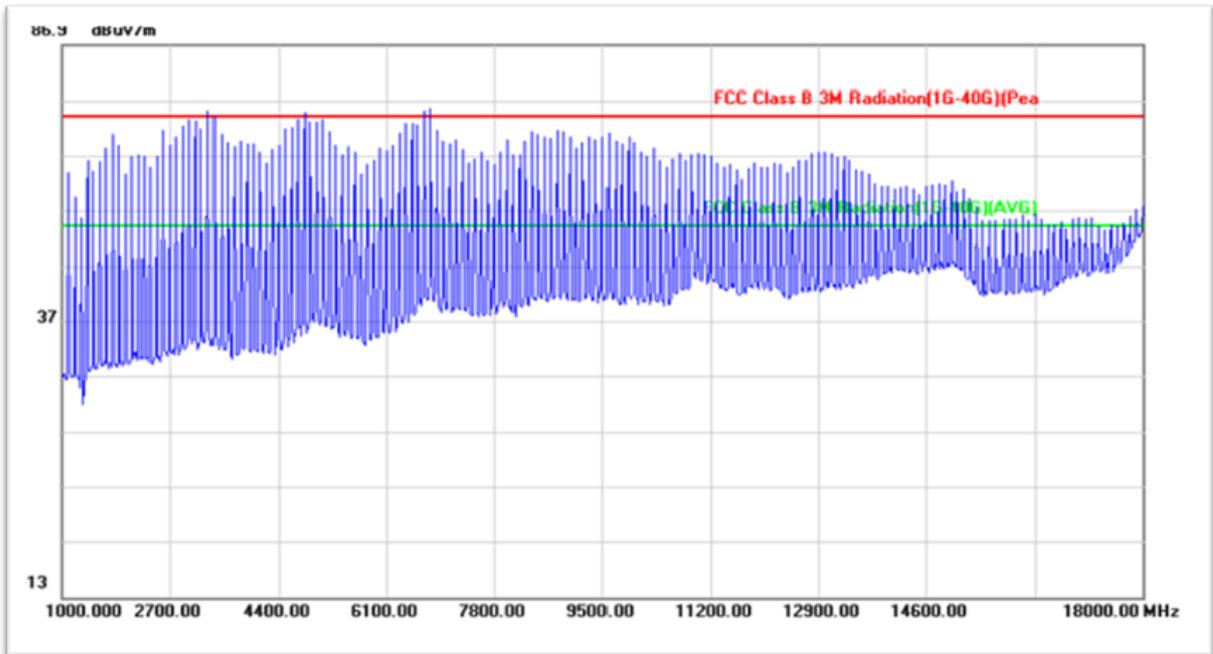
## Specifications

<b>Frequency Range</b>	<b>1GHz - 18GHz @ 3m</b>
<b>Frequency Step</b>	<b>100MHz</b>
<b>Power Requirements</b>	<b>USB mini, +5 Vdc</b>
<b>Charging Time</b>	<b>10 - 12 Hours</b>
<b>Usage Time</b>	<b>8 Hours</b>
<b>Size (mm * mm * mm)</b>	<b>119 * 81.5 * 85.5</b>
<b>Net Weight</b>	<b>1 kg</b>

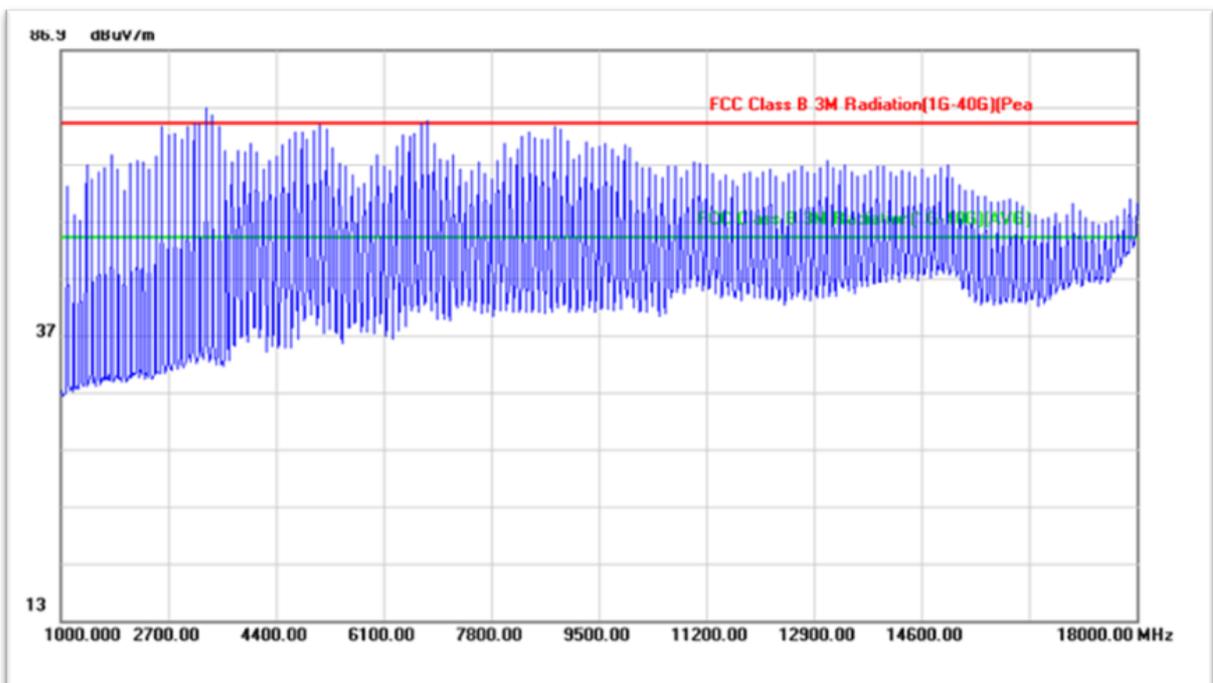
## Dimensions



- **Vertical**



- **Horizontal**





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