

# **CG118-100C**

**Comb Generator**

## Description

**CG118-100C Comb Generator** serves as a versatile signal source, emitting radiated reference signals, and available directly via its connector as a conducted signal source. 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 conducted & 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 conducted & 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.

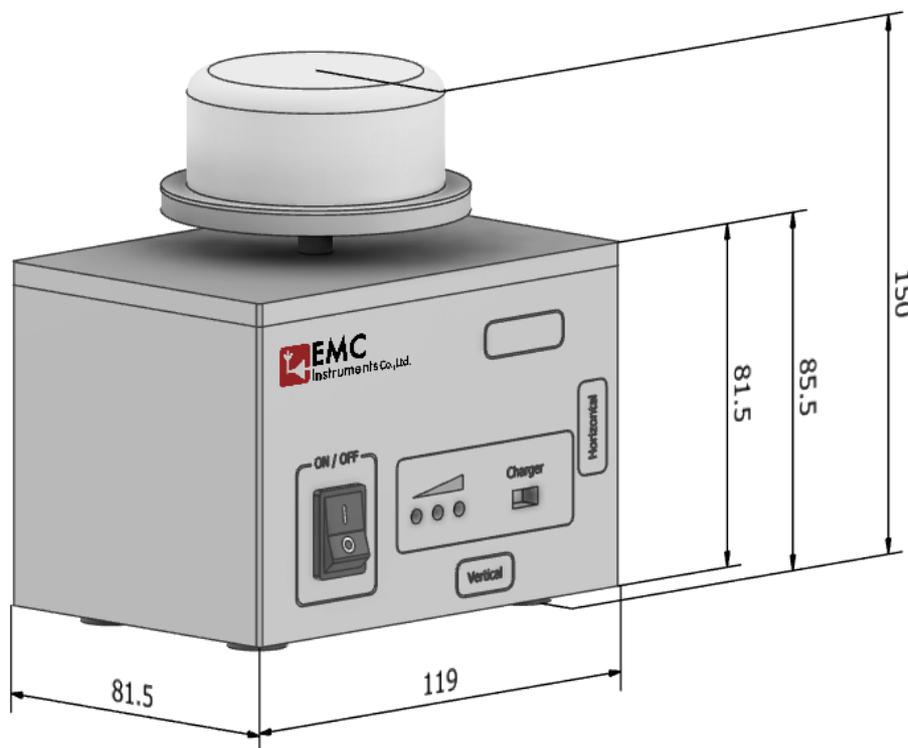
Beyond these functions, the **Comb Generator** is also utilized to assess the shielding effectiveness and resonance performance of enclosures designed for electronic equipment.



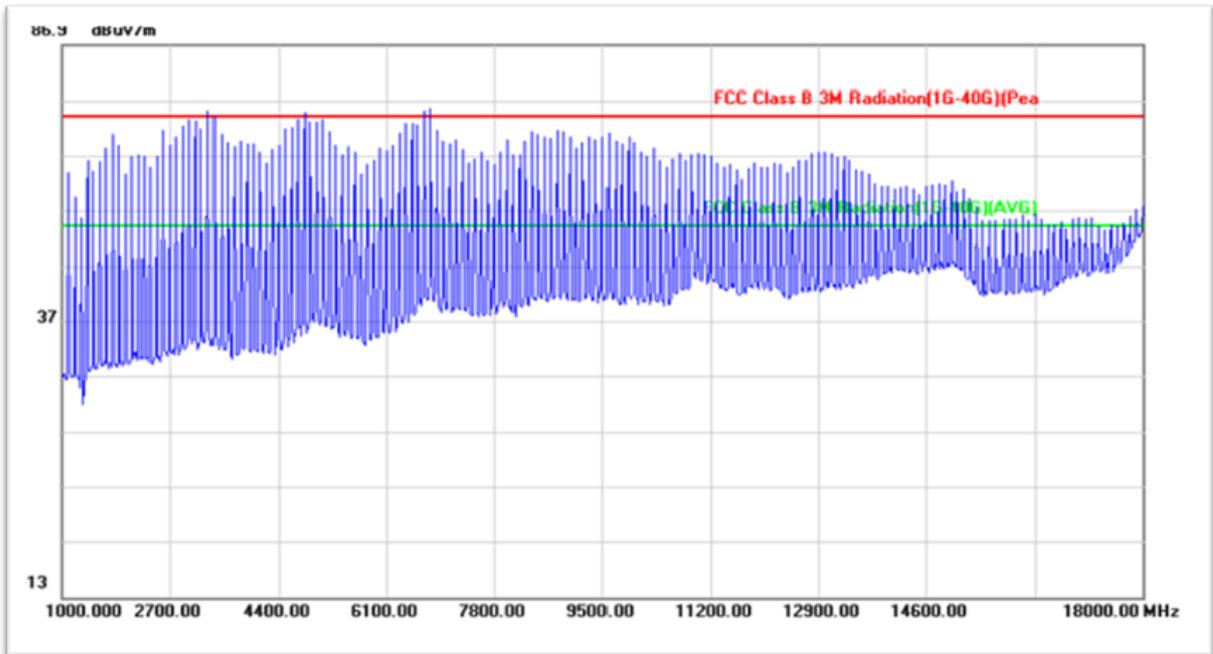
## Specifications

<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>Output Connectors</b>	<b>50 ohm, SMA Female</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>

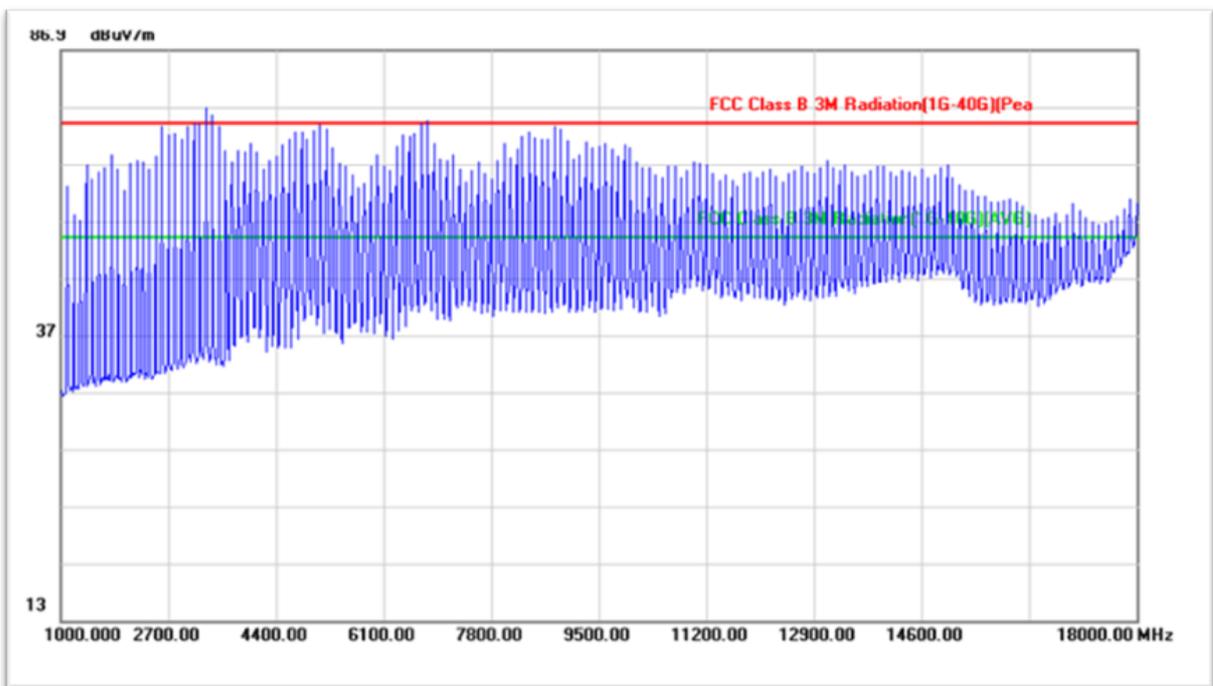
## Dimensions



- **Vertical**



- **Horizontal**





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