

CG118-100RS

Comb Generator

Description

CG118-100RS 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 100MHz up to at least 6GHz. 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 there are variations in EMC emissions measurements for a product across different testing sites.

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

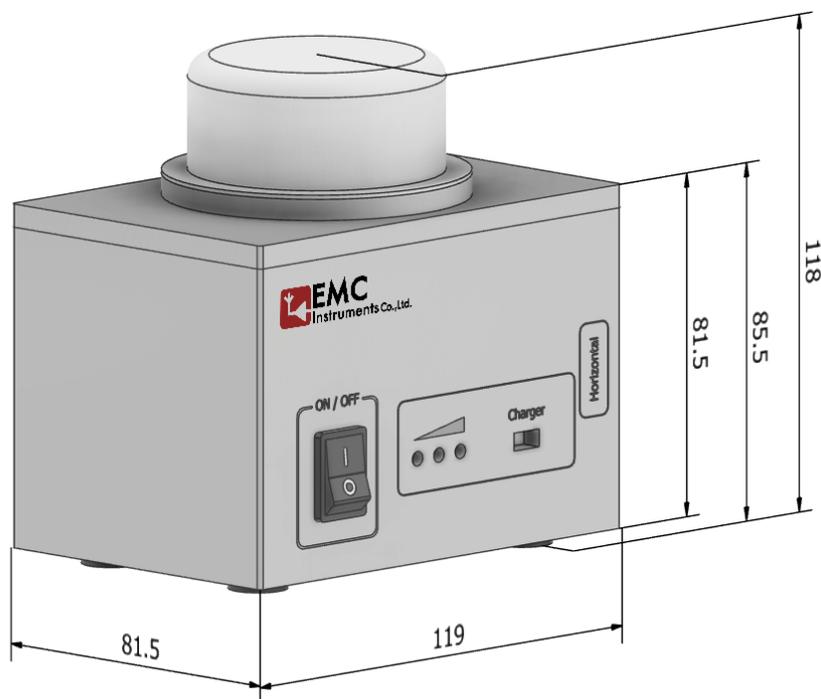
Beyond these functions, the **Comb Generator** is also utilized to assess the shielding effectiveness and resonance performance of enclosures designed for electronic equipment.



Specifications

Frequency Range	100MHz - 6GHz
Frequency Step	100MHz
Temperature Stability	100MHz - 6GHz \leq 2.0dB at 15°C - 30°C
Time Stability	typical < 1dB over a 12 months period
Power Requirements	USB mini, +5 Vdc
Charging Time	10 - 12 Hours
Usage Time	8 Hours
Size (mm * mm * mm)	119 * 81.5 * 85.5
Net Weight	1.1 kg

Dimensions





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