

CG140-1000C

Comb Generator

Description

CG140-1000C 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 1GHz intervals, usable within the range of 1GHz up to at least 40GHz. Power options include a rechargeable internal battery and an external power cable connection, enabling continuous operation for up to 6 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.

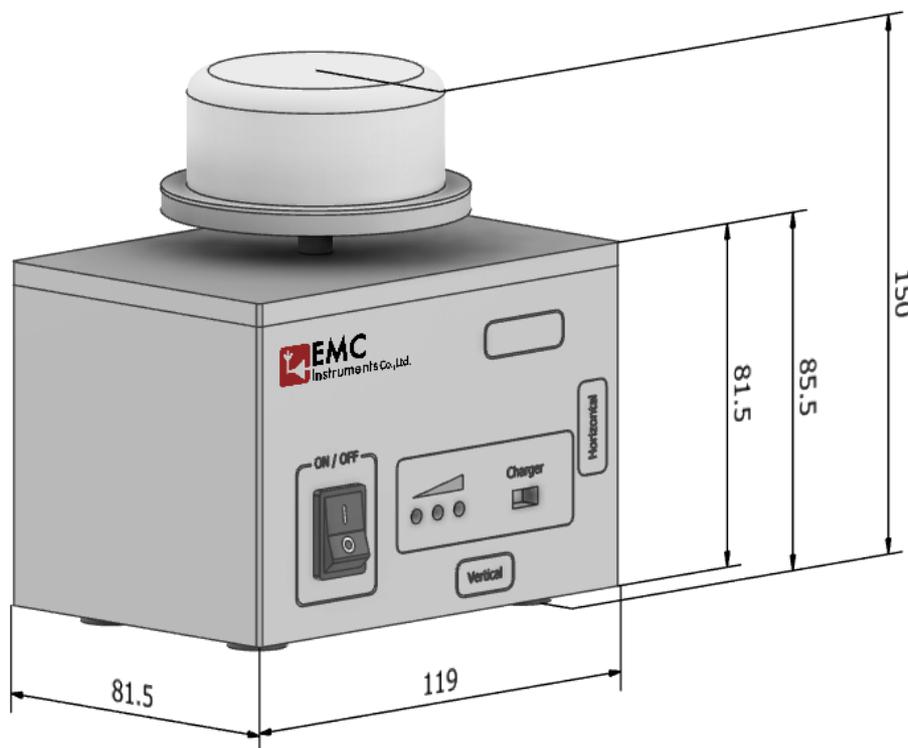
Beyond these functions, the **Comb Generator** is also utilized to assess the shielding effectiveness and resonance performance of enclosures designed for electronic equipment.



Specifications

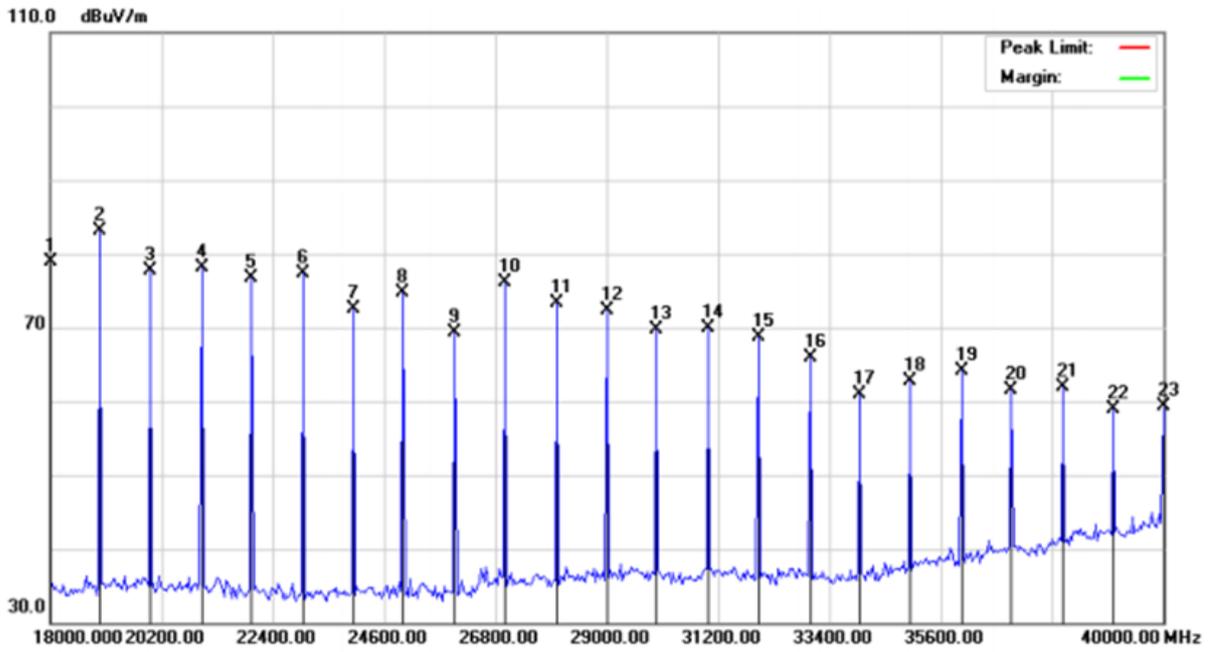
Frequency Range	1GHz - 40GHz @ 3m
Frequency Step	1GHz
Stability	2dB max
Power Requirements	USB mini, +5 Vdc
Output Connectors	50 ohm, 2.92mm Female
Charging Time	8 - 10 Hours
Usage Time	6 Hours
Size (mm * mm * mm)	119 * 81.5 * 85.5
Net Weight	1 kg

Dimensions

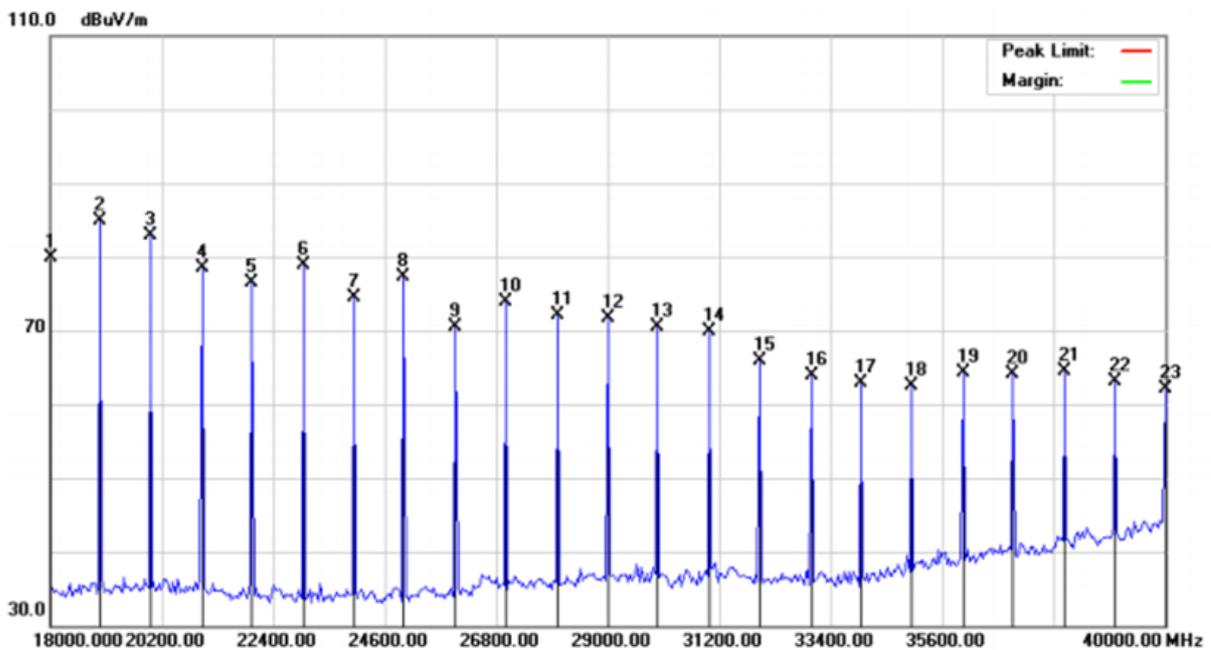


Measurement Distance : 3 meter

● **Vertical**



● **Horizontal**





承儀電子股份有限公司

地址：桃園市龜山區文三三街 38 巷 8 號 1 樓

電話：+886-3-328-6998

傳真：+886-3-328-8376

手機：+886-937-214-592

電子郵件：steven@emci.com.tw

EMC Instruments Corporation

Address: 1F., No. 8, Ln. 38, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan

TEL: +886-3-328-6998

FAX: +886-3-328-8376

Mobile: +886-937-214-592

E-mail: steven@emci.com.tw

