

CG50LR10100R

Comb Generator



Sales Partner:



ABSOLUTE EMC Llc.
Covering sales in North America
United States, Mexico, & Canada

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Description

CG50LR10100R Comb Generators serve as reference signal sources designed for testing Line Impedance Stabilization Networks (LISN) and conducting radiated emission measurements within the 30MHz - 6GHz range in EMI Chambers. Their output generates harmonics aligned with the fundamental frequency, offered in two bands: 50kHz to 108MHz with a switchable step size of 50kHz/500kHz, and 30MHz to 6GHz with switchable step size of 10MHz/100MHz. This flexibility enables thorough checks and investigations on conducted measurement systems, facilitating usage with LISN and standard connectors for both conducted and radiated emission measurements in EMI Chambers. The battery, when fully charged, ensures continuous operation for up to 16 hours. Included with the Comb Generator are a battery charger, USB cable, and accessories packaged in 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 conducted measurements using a LISN and EMI Radiation emission chamber.

With the Comb Generator, the test engineer can conduct frequent and rapid verifications of the conducted test setup, ensuring the reliability of test results.

Additional potential applications of the CG50LR10100R Comb Generator may involve the production evaluation of components, such as cable shields and filters, as well as chamber validation in accordance with CISPR16 & CISPR25 Automobile.



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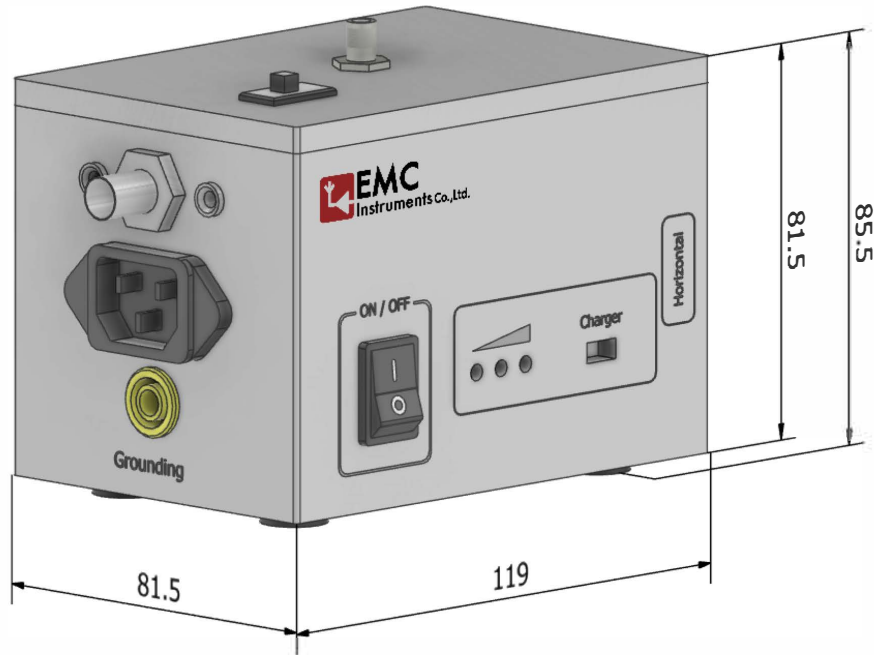
Specifications

Frequency Range	CE: 50kHz ~ 108MHz for AC / DC LISN (CISPR16 & CISPR25) RE: 50kHz ~ 30MHz with Monopole Antenna (CISPR25) RE: 30MHz ~ 1GHz (10MHz step) RE: 1GHz ~ 6GHz (100MHz step)
Frequency Step	50kHz / 500kHz step switchable for AC / DC LISN & RE with Monopole Antenna 10MHz / 100MHz step switchable for RE
Power Requirements	USB mini, +5 Vdc
Output Connectors	50 ohm, SMA Female
Charging Time	8 - 10 Hours
Usage Time	16 Hours
Size (mm * mm * mm)	Comb Generator 119 * 81.5 * 85.5 Grounding Plane 300 * 300 * 2
Net Weight	1 kg

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Dimensions



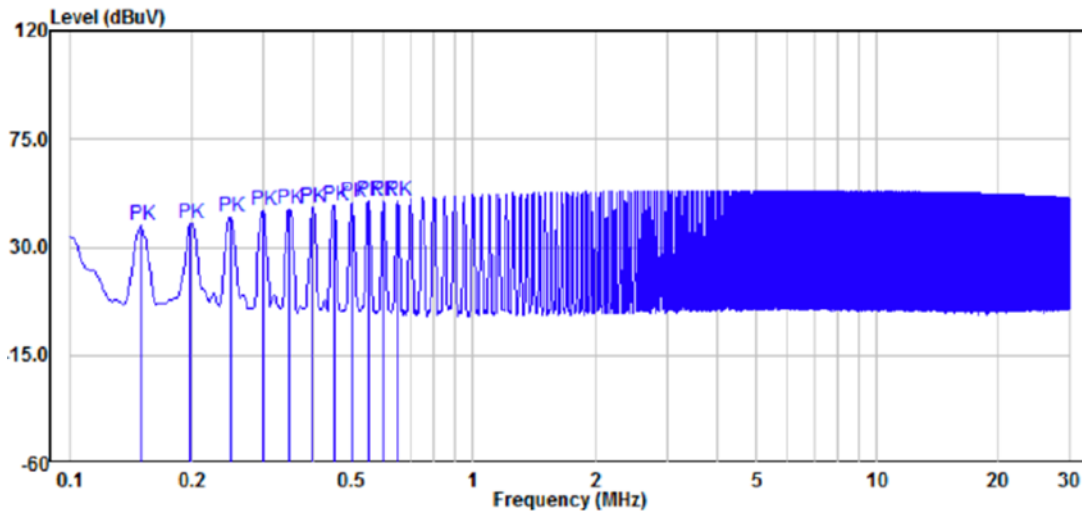
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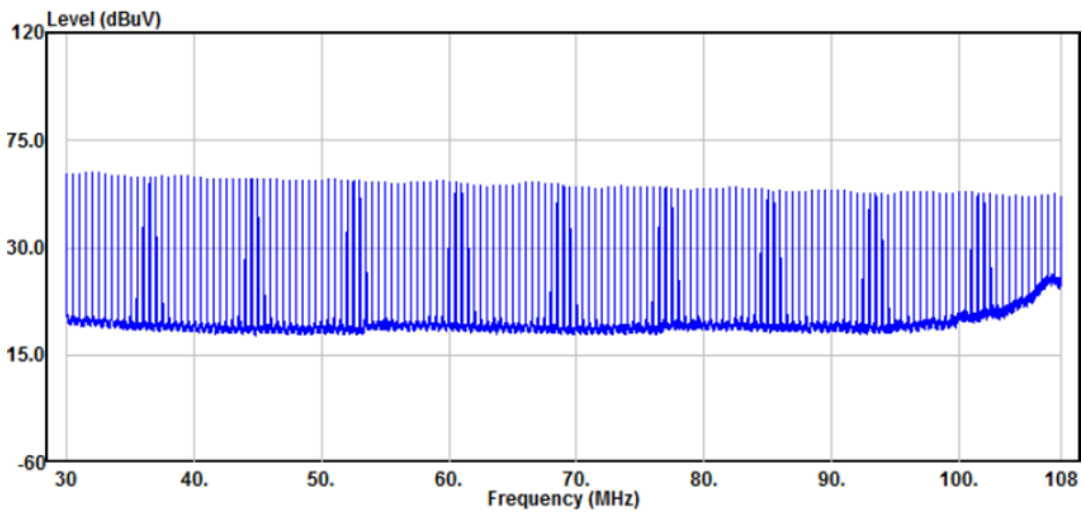
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- **CE : 50kHz to 30MHz**
 - **50kHz/step, RBW = 9kHz**



- **CE : 30MHz to 108MHz**
 - **500kHz/step, RBW = 9kHz**



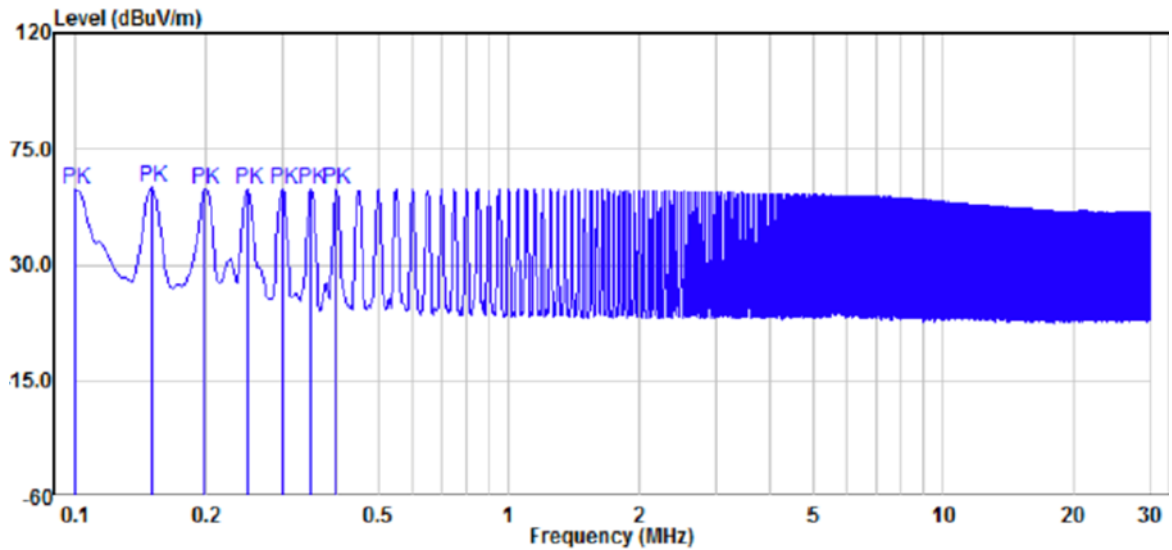
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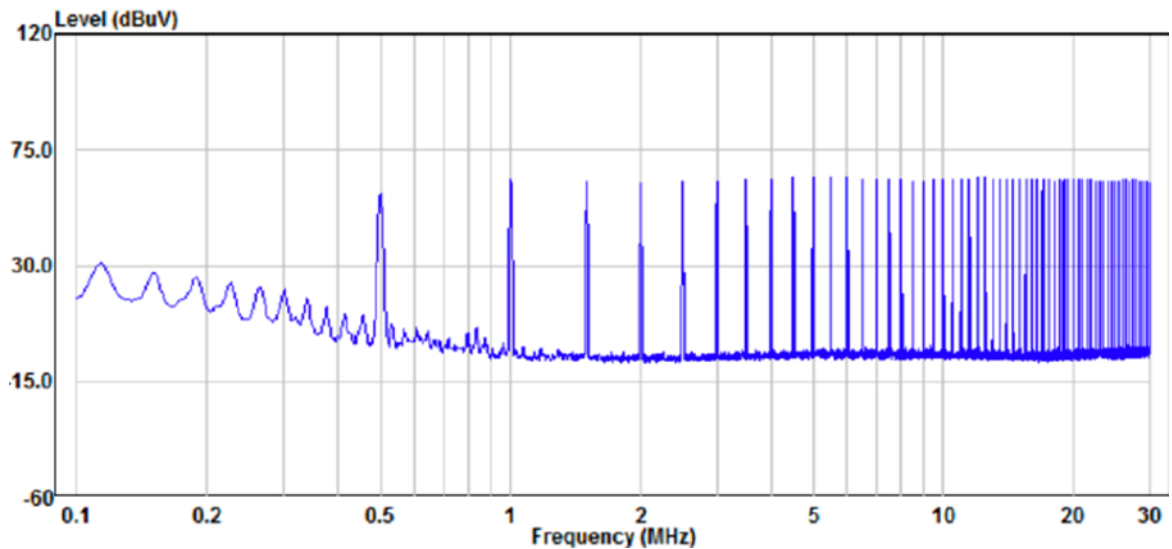
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- RE : 50kHz to 30MHz
 - 50kHz/step, RBW = 9kHz, VBW = 30kHz @ 1 meter



- 500kHz/step, RBW = 9kHz, VBW = 30kHz @ 1 meter



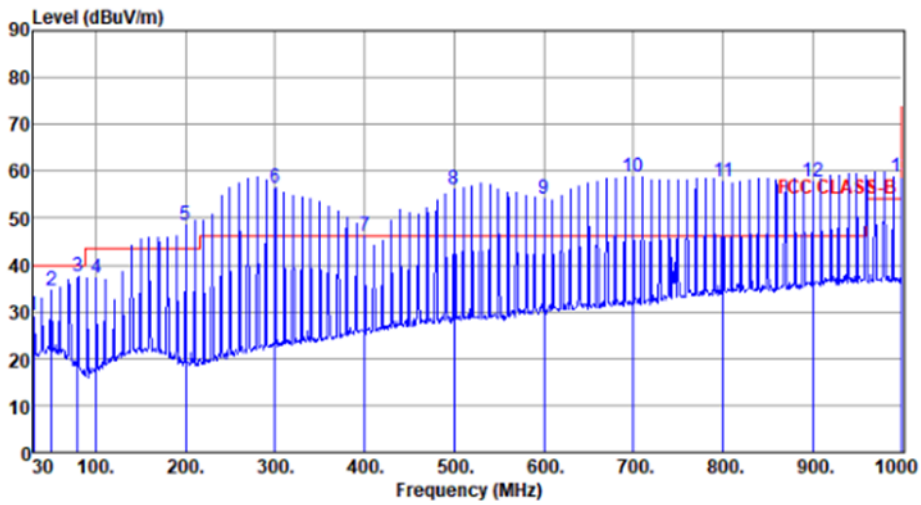
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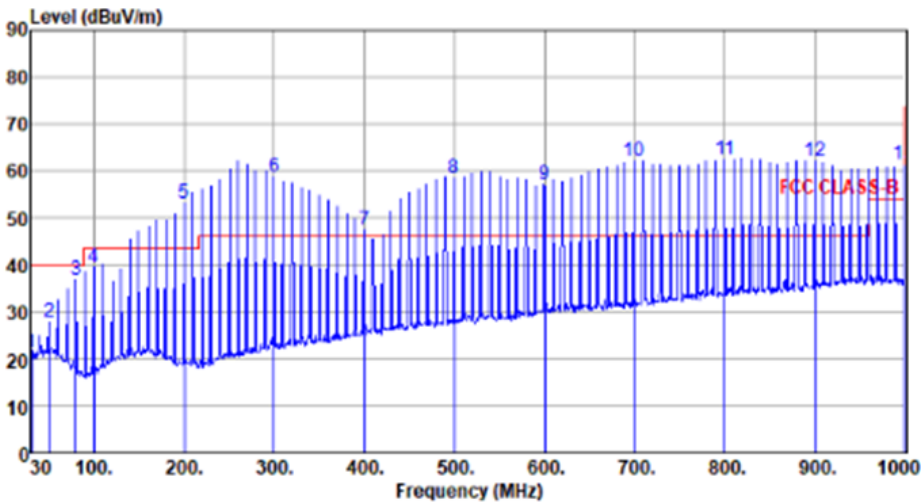
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- RE : 30MHz to 1GHz
10MHz/step, RBW = 100kHz, VBW = 100kHz @ 3 meter
 - Vertical



- Horizontal



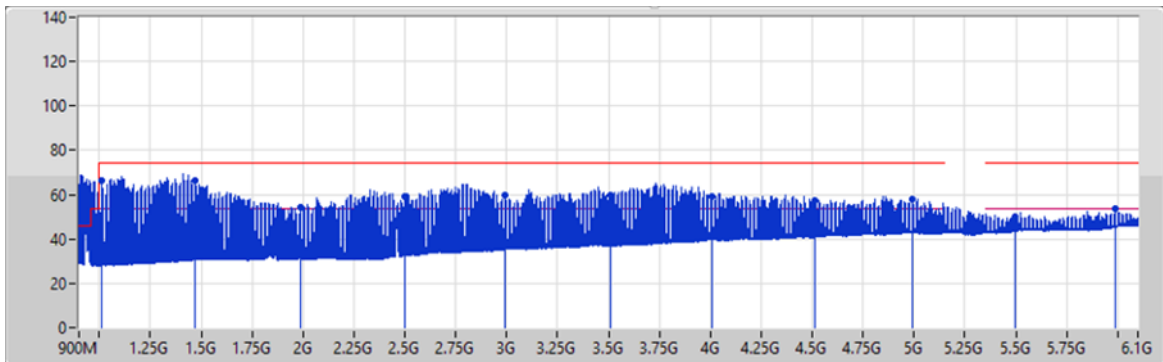
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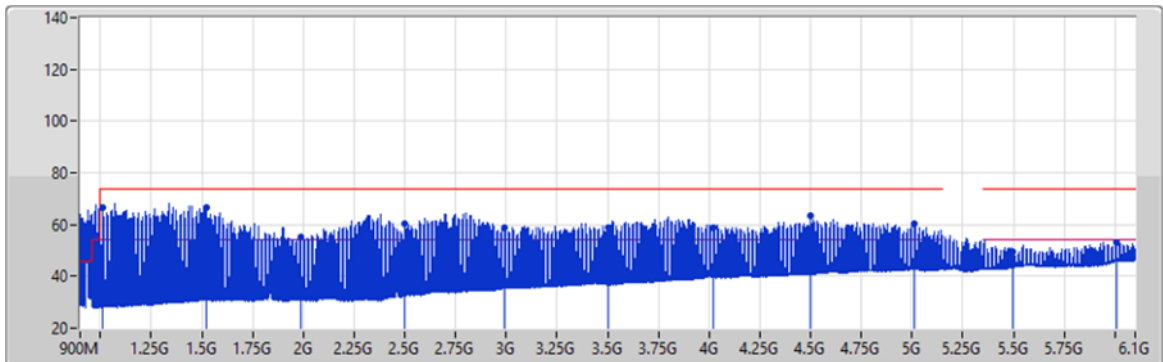
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- **RE : 1GHz to 6GHz**
10MHz/step, RBW = 1MHz, VBW = 10kHz @ 3 meter
 - **Vertical**



- **Horizontal**



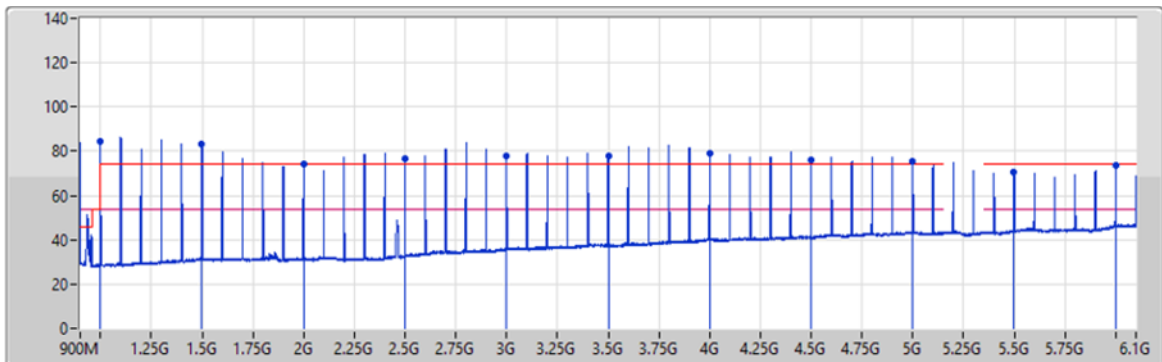
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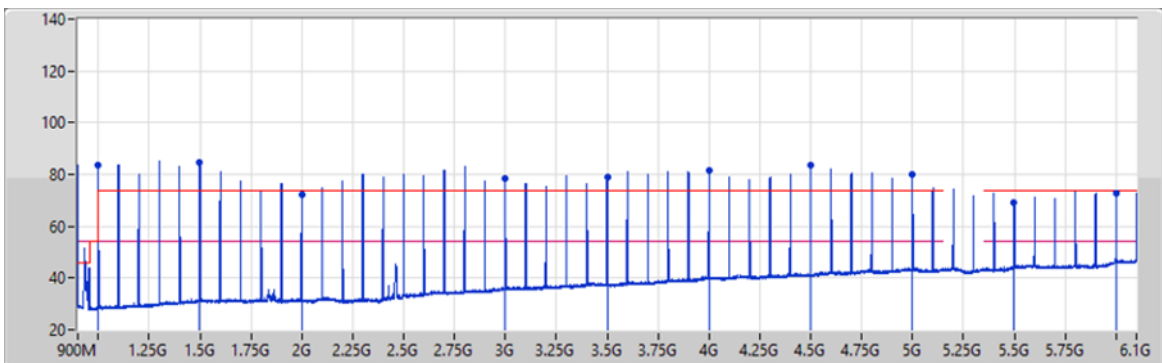
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- **RE : 1GHz to 6GHz**
100MHz/step, RBW = 1MHz, VBW = 10kHz @3 meter
 - **Vertical**



- **Horizontal**



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