

High Frequency Comb Generator Emitter CGE02

Introduction

York EMC Services have developed the CGE02 for use by manufacturers of computer enclosures to test for emissions. These Comb Generator Emitters pave the way for a new, easier testing methodology to be used for evaluating the shielding effectiveness required to meet FCC and international emissions regulations.

Using this new technology, manufacturers will be able to test for emissions shielding performance without having to build a complete system, since the Comb Generator Emitters can simulate the emissions of a complete system before the availability of key system components. This alleviates the risk and cost associated with last minute testing and possible modifications that are costly from a financial and schedule perspective.

Covering today's systems with processor clock frequencies in excess of 1+GHz as well as future systems using processors in the 3GHz range, this technology truly creates a unique opportunity for evaluating EMC performance in advance of the availability of actual high frequency components.



Description

The CGE02 is a broadband comb generator emitter covering the frequency range 250MHz to 26GHz.

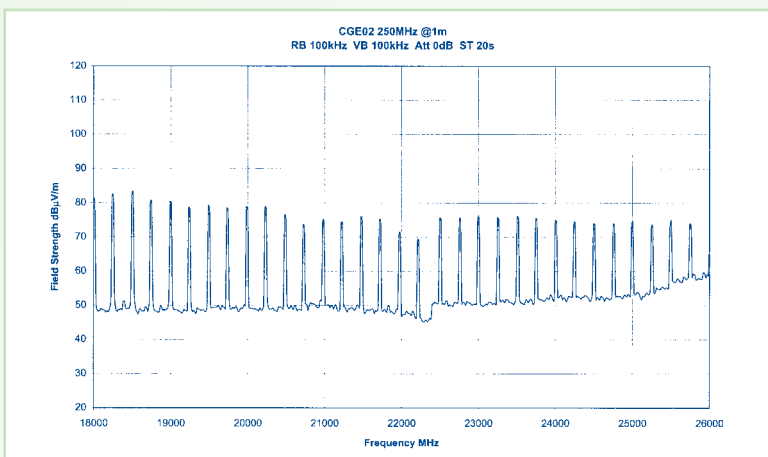
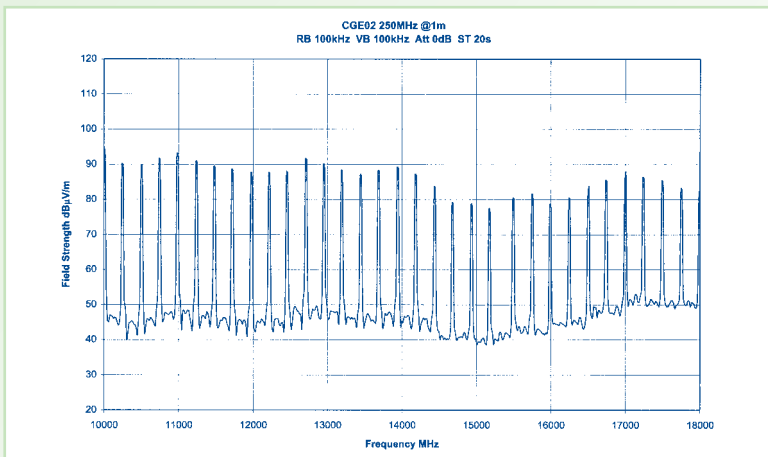
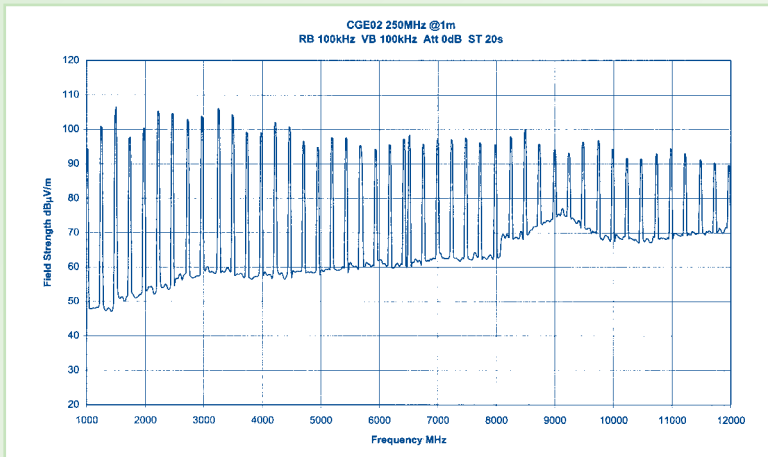
Two frequencies are available either 250MHz or 256MHz. The selected frequency determines the comb spacing, thus enabling two different frequency spectrums to be tested.

The CGE02 comes with a bespoke rechargeable NiMH battery pack, which will run for approximately 7 hours. However there is also the option of an external power connection via the floppy disc lead from a computer power supply. This allows the size of the unit to be reduced by half, thus making it suitable for small form factor systems.

Technical Details

Frequency range	250MHz - 26GHz
Step size	250MHz or 256MHz
Power Source (1)	NiMH Rechargeable Battery pack
(2)	5V supply via computer floppy disc lead
Battery Life	7.0 hours
Charging connector	2.1mm DC socket
Size	Diameter 80mm (3") Height 46mm (1.8") 90mm (3.55") with battery pack
Finish	Nickel plated aluminium
Weight	500g

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Applications

- Shielding effectiveness of small enclosures. Desktops, servers, monitors.
- As a reference source for radiated measurement systems:
- Daily pre-test checks. Allows quick measurement equipment check to ensure validity of measurement results.
- Long term performance monitoring. Regular use can identify measurement system degradation at an early stage.
- Investigation of new measurement system.

Ordering Information

The CGE02 includes A detachable battery pack BP01 and a battery charger.

The charger is suitable for 110v Or 230v and comes with a selection of mains adapters.

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