

High Frequency Comparison Noise Emitter CNE VII

Introduction

The Comparison Noise Emitter (CNE) was developed by the University of York as a research tool for the evaluation of screened room resonances. In recent years the advance in electronic equipment, particularly in the mobile and low power communications industry, has resulted in the use of frequencies well above the current EMC test standard of 30MHz to 1GHz. As a result CNE VII has been developed in response to the requirement to verify test facilities above 1GHz.

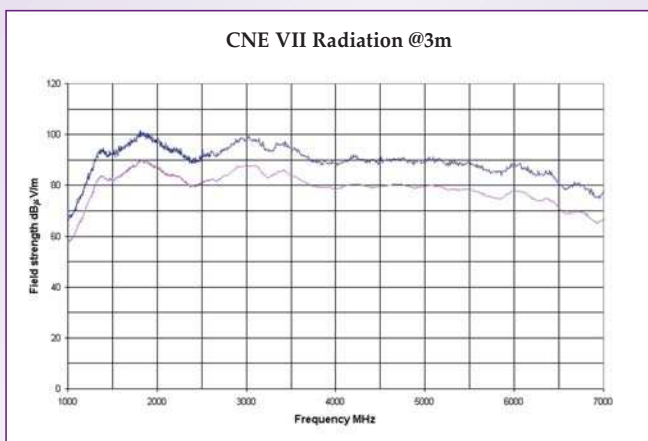
Description

The CNE VII is a broadband continuous spectrum radiated noise source with a useable output from 1.5 to beyond 7GHz. The CNE can be used as a source for carrying out checks in GTEM Cells and anechoic chambers. The broadband nature of the output enables the observation of details that would be missed with a comb generator. The unit is battery powered so that it can be operated as an independent source without the effect of cables, which would modify the fields generated. An LED indicates when the battery power is low. The battery pack is easily removed and replaced to minimise the potential downtime. The CNE is housed in a plated metal cylindrical enclosure, thus ensuring uniformity of the field and can be orientated to give vertical or horizontal polarisation.



Technical Details

Frequency range	1.5 - 7.0 GHz
Power Source	Sealed Lead Rechargeable Battery pack
Power source connector	Miniature Power Jack
Battery Life	approx. 7 hours
Size	Diameter 150mm
Height	150mm
Finish	Nickel plated steel
Weight	4kg



Applications

- ◆ Comparison between different measurement environments such as GTEM Cells or Anechoic Chambers
- ◆ As a reference source for radiated measurement systems:
 - Daily pre-test checks.
 - Long term performance monitoring.
- ◆ Investigation of measurement system.

Ordering Information

Order Code	CNE VII	
Includes	CNE VII	1.5-7GHz CNE
	BPK01	Battery pack

Accessories

BCH03 / 240V	230/240V	Battery Charger
BCH03 / 110V	110/115V	Battery Charger
BPK01		Battery Pack