

Ultra-compact Chamber-UCC

Datasheet



Introduction

UCC is an alternative solution for the GTEM cell for pre-compliance testing as well as for research and scientific purposes. The wall and ceiling of chamber are completely covered with ferrite, and 6 m² hybrid absorbers are installed on the back wall of EUT, which ensures the testing frequency of chamber range from 30 MHz to 18 GHz. Compared with GTEM chamber, the main advantage of UCC is that the testers can walk in it. Cables fed with peripherals can be setup and bigger sample can be set. As per IEC/EN 61000-4-3, UCC can be used to perform radiation emission and radiation immunity tests at 1m measuring distance. Additionally, UCC are suitable for automotive components testing as per DIN/ISO 11452-2 and EN 55025 (CISPR 25). If necessary, UCC can be regarded as standard shielded chamber for conducting tests. Owing to its small external size, UCC can be placed into laboratory or offices with normal dimensions.

Technical Indices

Dimensions	4,280 mm (L) x 3,080 mm (L) x 2,550 mm (L)
Frequency Range	30 MHz-18 GHz
Measurement Distance	1m

Absorbers

Wall and Ceiling	F006 ferrite absorbers
Near the Back wall of EUT	6 m ² H300 hybrid absorbers
Floor	2 m ² ferrite absorbers between EUT and antenna

Radiation Emission Test	Pre-compliance test
Radiation Immunity Test	Conform to 1m radiation immunity tests of IEC/EN 61000-4-3
Size of Uniform Field as per IEC/EN61000-4-3	0.5m x 0.5m
Max. Deviation	Four measurement points conform to completely -0dB/+6dB

Standard Configuration

- One honeycomb window used for ventilating
- One 250 V AC mains filter, 2x16A
- One interface panel
- Feed through components: 4 N-type connectors, 4 BNC connectors, one fiber interface
- Electrical equipment
- Lightning equipment
- Elevated floor
- Laying Absorbers

Optional Configuration

- Three-phase mains filter
- Signal and data lines filter
- Fan
- Antenna lifting tower or antenna bracket
- Video and audio monitoring system
- Calibration for chamber performance
- Measuring devices
- Other additional devices



SUZHOU 3CTEST ELECTRONIC CO., LTD.

Add.: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

Tel: +86 (0)512 6807 7192 Fax: +86-512-68079795

Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn

www.3c-test.com

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