



MAIN FEATURES

- Emissions and immunity testing in a single, shielded environment
- Meets basic standard: IEC/EN 61000-4-20
- Meets standards for emissions testing:
 CISPR 14-1, IEC 61000-6-3 and IEC 61000-6
 -4 for EUTs without connected cables
- Ideal for design qualification and precertification

GTEM 1250

GTEM cell for emissions and immunity testing

A GTEM (Gigahertz Transverse Electro Magnetic) cell is a test site for efficiently performing both radiated immunity and emissions testing in a single, controllable and shielded environment. Compared to other test sites, GTEM testing is faster with high accuracy and excellent reproducibility.

In principle, the GTEM cell is a coaxial line expanding pyramidally and having an impedance of $50\,\Omega$. At its end, the line is terminated by a combination of termination resistors and RF absorbers designed and constructed to match the above mentioned impedance.

The GTEM 1250 has a maximum septum height of 1250 mm and is suitable for emissions and immunity testing.

Standard configuration

- Under-carriage with locking casters and additional supports
- Door, left or right side, clear opening of 85 cm x 85 cm
- Shielded window 30 cm x 10 cm
- Door contact for free application
- EUT Box-1 with 2x 16 A filter, 1 socket inside, line safety switch, earth leakage circuit breaker, switchable illumination
- Media interface (Media S) for 3x N-type connectors and optical feed through
- Measurement report for TDR, return loss and input power requirements for 10 V/m (30 - 3000 MHz)
- Shipped disassembled, required Teseq supervisor, option ASS 1250

Options

- Special filter solutions
- SSA 1250, stainless steel angles option for GTEM 1250, recommended for countries with high humidity like Thailand, Malaysia, Philippines...
- Additional door
- SAE opening, clear opening of 93.4 mm x 93.4 mm
- XYZ manipulator MPH 1250 or MPC 1250 solution
- Test house software



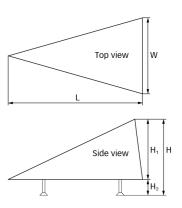
GTEM 1250



GTEM cell for emissions and immunity testing

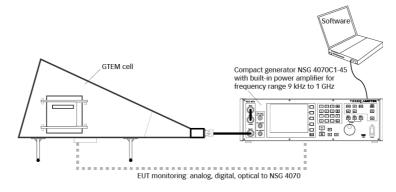
Specifications

	GTEM 1250	
Max. septum height	1250 mm	
Septum height at marker position	1083 mm	
EUT size (max. dimension, LxWxH in m)	0.93 x 0.93 x 0.83	
EUT dimension for uniform-area 0 to 6 dB (LxWxH) in m	0.416 x 0.416 x 0.416	
RF input connector	N-type	
Nominal impedance	50 Ohm	
Frequency range	DC up to 20 GHz	
Frequency range according IEC/EN 61000-4-20	30 to 3000 MHz	
Return loss / VSWR (DC to 18 GHz)	>15 dB / <1.45:1	
Shielding effectiveness (30 MHz to 3 GHz)	>60 dB (typ. >80 dB)	
Max input power	1000 W	
Required input power for 10 V/m	15.2 W (4.7 W CW)	
(isotropic, 5 points, 30 to 3000 MHz)		
Field deviation (isotropic, 5 points, 30 to 3000 MHz)	<6 dB	

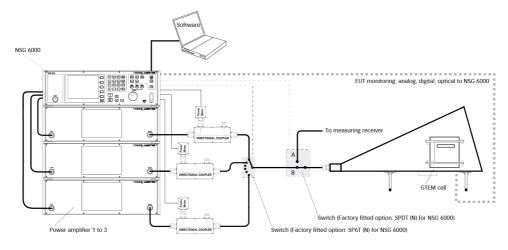


General Specifications

	GTEM 1250
Dimension (LxWxH in m)	5.95 x 3.06 x 2.52
Weight	approx. 1150 kg
Height H1 of cell corpus	2.06 m
Height H2 of supports	0.455 m, optionally 0.19 m
	or 0.34 m
Door (LxH in m)	0.85 x 0.85



Example of immunity test setup 9 kHz to 1 GHz with one power amplifier



Example of test setup 9 kHz to 6 GHz with three power amplifiers and measuring receiver



GTEM 1250



GTEM cell for emissions and immunity testing

Ordering information

The door side and the country version of the single phase AC socket needs to be selected.











UK version US/JP version CEE, 32 A version

Model No. and options (selection shown for EU only)

Description	Itana Na	Tank
Description	Item No	Text
GTEM 1250-L- EU	258821	GTEM with septum height 1250 mm, support with 16 feets, door on left side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250
GTEM 1250-L- EU-MPH	258822	GTEM with septum height 1250 mm, support with 16 feets door, on left side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250, XYZ-manipulator handoperated included
GTEM 1250-L- EU-MPC	258823	GTEM with septum height 1250 mm, support with 16 feets door, on left side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250, remote controlled XYZ-manipulator included
GTEM 1250-R- EU	258814	GTEM with septum height 1250 mm, support with 16 feets door, on right side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250
GTEM 1250-R- EU-MPH	258815	GTEM with septum height 1250 mm, support with 16 feets door, on right side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250, XYZ-manipulator handoperated included
GTEM 1250-R- EU-MPC	258816	GTEM with septum height 1250 mm, support with 16 feets door, on right side with clear opening of 85 cm x 85 cm and shielded window of 30 cm x 10 cm, door contact for free application, EUT Box-1 with 2x 16 A filter, 1 Schuko-socket inside, line safety switch, RCD, switchable illumination, media interface (Media S) for 3x N-type connectors and optical feed through, max. 1000 W RF input power, switchable fans, shipped disassembled, required Teseq supervisor option ASS 1250, remote controlled XYZ-manipulator included

