acceloni





GTEM 1250, door right side

- 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
- Meets standards for immunity testing: EN 60118-13
- Ideal for design qualification and pre-certification
- Fields generated are largely homogeneous and simple to calculate
- Efficient power conversion requires smaller power amplifier
- Excellent VSWR over the entire frequency range - no need for measurement of reflected power

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 Ω . 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:

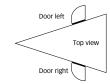
- Support with 16 feet
- Door, left or right side, clear opening of 85 cm x 85 cm
- Shielded window, 30 cm x 10 cm
- Door contact for free application
- Switchable fans
- EUT BOX-1 with 2x 16 A filter, 1 socket inside, line safety switch, earth leakage circuit breaker, switchable illumination
- Media interface (Media S) for 3x N-type connectors and optical feed through
- Emission correlation tool (Windows software for manual input)
- Measurement report for TDR and VSWR
- Measurement report for input power requirements for 10 V/m (80 1000 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
- Support with 16 wheels
- XYZ manipulator MPH 1250 handoperated or MPC 1250 remote controlled
- Test house software for emission and immunity testing

Ordering information:

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

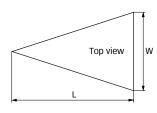


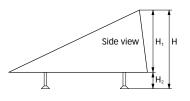












Specifications

| Max. septum height: | 1250 mm |
|--|---|
| Septum height at marker position: | 1083 mm |
| Dimension (LxWxH) in m: | 5.95 x 3.06 x 2.52 |
| | (H in relation to the selected support) |
| Weight: | approx. 1150 kg |
| Height H ₁ of cell corpus: | 2.06 m |
| Height H ₂ of supports: | 0.455 m, optionally 0.19 m or 0.34 m |
| Door (clear opening, LxH) in m: | 0.85 x 0.85 |
| EUT 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 Ω |
| Frequency range: | DC up to 20 GHz |
| Frequency range according IEC/EN 61000-4-20: | 30 to 1000 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 | |
| (isotropic, 5 points, 80 to 1000 MHz): | 15.2 W (4.7 W CW) |
| Field deviation (isotropic, 5 points, 30 to 1000 MHz): | <6 dB |

Model No. and options

| Part number | Description |
|-------------|---|
| 250400 | GTEM 1250 Septum height 1250 mm, door, window, EUT BOX-1 and Media S included |
| 251753 | SSA 1250 Stainless steel angles option for GTEM 1250, recommended for countries with high humidity like Thailand, Malaysia, Philippines |
| 240382 | ASS 1250 Supervisor build up for GTEM 1250 (travel and accommodation costs are additionally) |
| 254276 | MPH 1250 Manipulator handoperated for GTEM 1250 |
| 254275 | MPC 1250 Manipulator remote controlled for GTEM 1250 |





Model No. and options (continued)

| 251920 | SHD 2 Additionally shielded door, clear opening 0.44 m x 0.38 m |
|--------|---|
| 251950 | SHD 5 Additionally shielded door, clear opening 0.85 m x 0.85 m |
| 251100 | EUT BOX-1 EUT supply for single phase, 2x 16 A filter, 1 socket inside, line safety switch, earth leakage circuit breaker, switchable illumination, available for GTEM 500 to 2000 |
| 251200 | EUT BOX-3 EUT supply for three phase, 4x 32 A filter, 1 socket inside, line safety switch, earth leakage circuit breaker, switchable illumination, available for GTEM 500 to 2000 |
| 251201 | EUT BOX-31 Option for GTEM 500 - 2000: Upgrade of EUT BOX-1 (included in standard delivery) to EUT BOX-3, order only with GTEM |
| 251210 | EUT BOX-4 Option for GTEM 500 - 2000: EUT Box with DC power filter 4x 10 A, banana jacks 4 mm |
| 251211 | EUT BOX-5 Option for GTEM 1000 - 2000: EUT BOX with 2x 63 A power filter, 250 V AC, banana jacks 6 mm / 4 mm, suitable for GTEMs without EUT MG |
| 251212 | EUT BOX-6 Option for GTEM 1000 - 2000: EUT BOX with 10x 63 A power filter, 250 V AC, banana jacks 6 mm / 4 mm |
| 251000 | DC1 Option for EUT BOX-1, EUT BOX-3 or EUT BOX-31: DC power filter 2x 10 A, banana jacks 4 mm |
| 251300 | EUT MG-1 Option for GTEM 1000 - 2000: Switching cabinet size 2, 2x 16 A filter, 3 sockets inside and 2 sockets outside, line safety switch, earth leakage circuit breaker, line switch, emergency switch, pilot lamps, switchable illumination, door switch, Please note: GTEM cells with option EUT MG are not supplied with EUT BOX-1. EUT BOX-1 can be ordered as an option. |





Model No. and options (continued)

| 251400 | EUT MG-3 Option for GTEM 1000 - 2000: Switching cabinet size 2, 4x 32 A filter, 1x CEE socket and 2 sockets inside and 2 sockets outside, line safety switch, earth leakage circuit breaker, line switch, emergency switch, pilot lamps, switchable illumination, door switch, Please note: GTEM cells with option EUT MG are not supplied with EUT BOX-1. EUT BOX-1 can be ordered as an option. |
|--------|---|
| 251010 | DC2 Option for EUT MG: DC power filter 2x 10 A, banana jacks 4 mm |
| 251820 | SIF M 25 lines signal filter for Media, 5 A, D sub 25 pins |
| 248290 | ITE Filter Filter for 2 balanced pairs with adapters for RJ11 and RJ45 (ADR T411, ADR T442, ADR T443 and ADR T444) |
| 248270 | CAN Filter Filter for 6 lines CAN bus, D sub 9 pins |
| 248375 | RS232 Filter 9 lines signal filter, 5 A, D sub 9 pins |
| 248382 | USB Filter Filter for shielded USB |
| 251600 | Media S Connector panel with frame, 3x N-type connectors, 1x optical feed through |
| 251650 | Plate S Exchange panel for media S |



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