GTEM 250A-R

GTEM cell for emissions and immunity testing

MAIN FEATURES

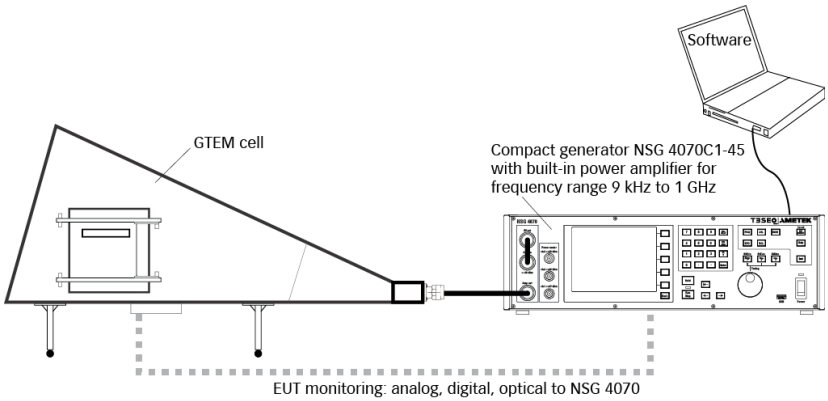
- **Emissions and immunity testing in a single, shielded environment**
- **Meets basic standard: IEC/EN 61000-4-20**
- **Meets standards for emissions testing: CISPR 14-1, IEC 61000-6-3 and IEC 61000-6-4 for EUTs without connected cables**
- **Ideal for design qualification and pre-certification**
-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

	GTEM 250A-R
Max. septum height	250 mm
Septum height at marker position	217 mm
EUT size (max. dimension, LxWxH in m)	0.20 x 0.20 x 0.15
EUT dimension for uniform-area 0 to 6 dB (LxWxH) in m	0.083 x 0.083 x 0.083
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
Typical return loss / VSWR (DC to 18 GHz)	>19 dB / <1.25:1
Shielding effectiveness (30 MHz - 1 GHz / 1 - 18 GHz)	100 dB / 90 dB
Max input power (without additional external air cooling, without any EUT waste heat) below 1 GHz above 1 GHz	 100 W for 15 min 100 W continuous

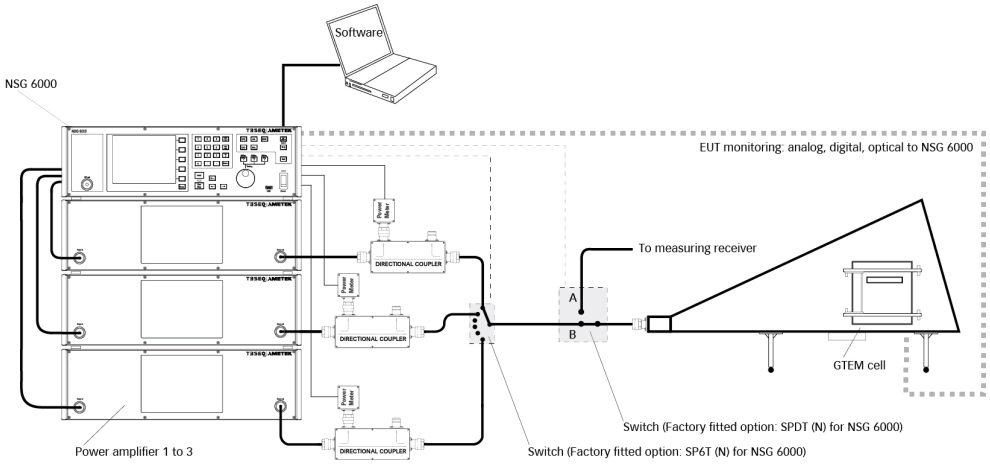
	GTEM 250A-R
Dimension (LxWxH in m)	1.23 x 0.66 x 0.54
Weight	approx. 45 kg
Height H1 of cell corpus	0.43 m
Height H2 of supports	0.11 m
Door (LxH in m)	0.20 x 0.13
Operating temperature	+5°C to +30°C
Temperature range for this specification	+20°C to +28°C

Options

- Special filter solutions
- Endwise version
- Manipulator solution
- Test house software



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

View to the back side of the GTEM 250A-R