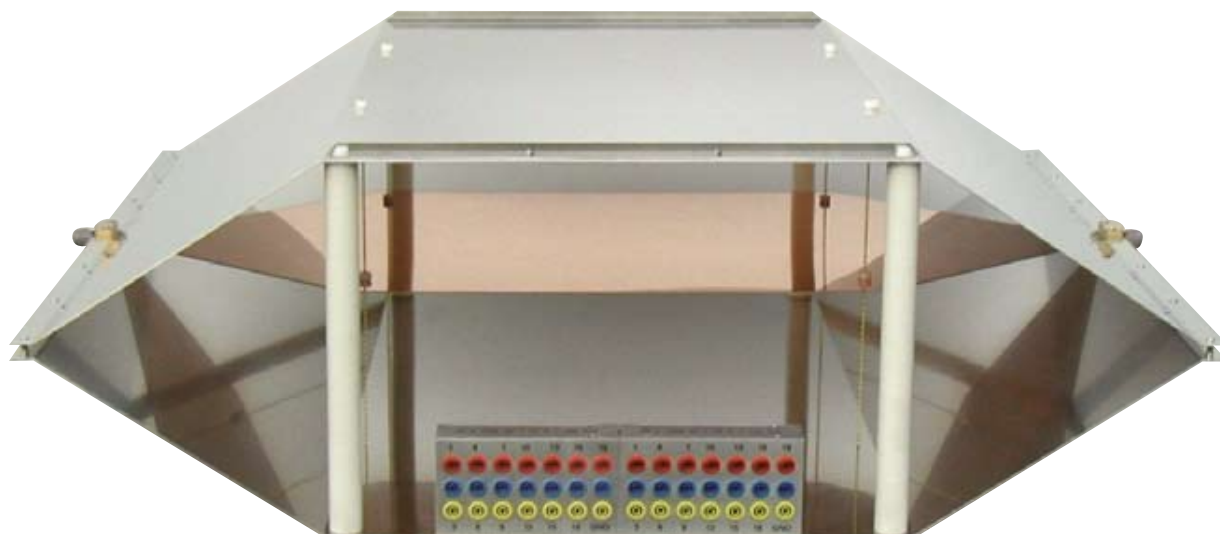


Open TEM-Cells



www.GtemCell.com
ITALIA

Description

These Open TEM-cells are well suited for immunity testing of small objects according to European (CE) and automotive standards (SAE J1113-25) or for biological experiments. The advantage of these O-TEM cells is that they are open and it is very easy to control the functions of the EUT (Equipment Under Test). The applications are for instance the immunity testing of watches, pagers, telephones or PCB's.

In comparison with other closed TEM-cells, the price is low. The field decreases rapidly outside the Open TEM-cells (approx. 33 dB at 1 meter) and it is therefore possible to use an Open TEM-cell in ordinary facilities. Another interesting application is the calibration of field probes as the generated field inside the Open TEM-cell is very exact. Open TEM-cells are the most precise structures for field calibrations.

| Technical specifications | 0-TEM 220 | 0-TEM 500 | 0-TEM 1000 * | 0-TEM 3000 * |
|---|---|----------------|-------------------|----------------|
| Frequency range | DC - 220 MHz | DC - 500 MHz | DC - 1 GHz | DC - 3 GHz |
| Height under plate | 33.3 cm | 14.7 cm | 7.3 cm | 2.5 cm |
| Max. input power | 1.5 kW | 1 kW | 750 W | 400 W |
| Maximum field | 800 V/m | 1.5 kV/m | 2.6 kV/m | 5.6 kV/m |
| Field for a 25 W amplifier | 105 V/m | 215 V/m | 480 V/m | 1400 V/m |
| Dimensions (LxWxH) | 180 x 160 x 73 cm | 97 x 81 x 32cm | 54 x 45 x 16.8 cm | 44 x 18 x 8 cm |
| Weight | 55 kg | 12 kg | 3.5 kg | 3 kg |
| Field precision | ± 5 % | | | |
| Connector | type N 50 Ω | | | |
| Cell impedance | 50 Ω | | | |
| Wave impedance | 377 Ω | | | |
| VSWR | < 1.2 (<1.9 for the 0-TEM3000) | | | |
| Options | Signal and power supply filters, Dummy Load | | | |
| * Can be equipped with a test setup for IC or PCB acc. to SAE J1752-3 | | | | |

Specifications subject to change without notice.

Other models are available on request