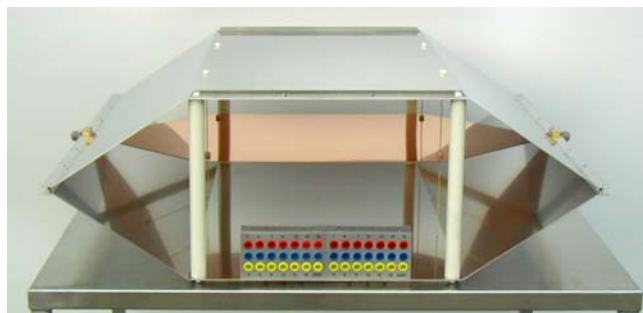


Open TEM Cell



These open TEM cells (tri-plate 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 TEM cells is that they are open and it is very easy to control the functions of the 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 lower. The field rapidly decreases outside the open TEM cells (about 33 dB at 1 meter) and therefore it is possible to use an open TEM cell in ordinary facilities. Another very interesting application is the calibration of field probes because the field inside the TEM cell is known with high precision. TEM cells are the most precise structures for field calibrations.

SPECIFICATIONS

Type	TEM220	TEM500	TEM1000	TEM3000
Frequency range	DC - 220 MHz	DC - 500 MHz	DC - 1 GHz	DC - 3 GHz
Height under plate	33.3 cm	14.7 cm	7.4 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	470 V/m	1'400 V/m
Dimensions (L x W x H)	180 x 160 x 73 cm	97 x 81 x 32 cm	54 x 45 x 16.8 cm	40 x 18 x 6 cm
Weight	55 kg	12 kg	3.5 kg	3 kg
Field precision	± 5 %			
Connector	N 50 Ω			
Cell impedance	50 Ω			
Wave impedance	377 Ω			
VSWR	< 1.2 (< 1.5 for the TEM3000)			

Option:

- The models TEM1000 and TEM 3000 can be equipped with a test set-up for IC or PCB according to SAE J1752-3 and to IEC 61967-2.
- Signal and power supply filters are also available.
- Other models are available on request.