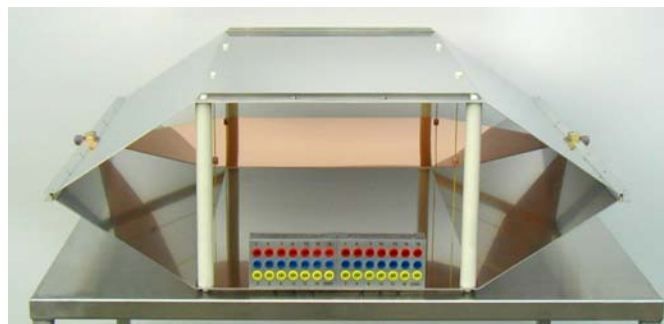


Open TEM Cells



INTRODUCTION

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 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 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

Cell 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	240 V/m	475 V/m
Dimensions (L x W x H)	180 x 160 x 73 cm	102 x 90 x 36cm	54 x 45 x 16.8 cm	40 x 18 x 6 cm
Weight	55 kg	13.5 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			

* can be equipped with a test set-up for IC or PCB according to SAE J1752-3.
Option: signal and power supply filters. Other models are available on request.