

## GTEM! TEST CELLS 5503 Electric Field Generator

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The model 5503 top plate consists of four separate tube conductors that are connected in parallel at the feed and load ends. This four-wire transmission line acts as a plate conductor at frequencies up to 30 MHz. A vertical, quasi-static TEM mode electric field is produced between the four-wire system and the ground plane of a semi-anechoic chamber. The width-to-height ratio of the "four-wire plate" is designed for an impedance match to a 50  $\Omega$  system without an input transformer.

An external forced-air-cooled load is used to terminate the model 5503. The cooling system maintains proper operating temperature and is monitored by a temperature sensor. The load housing is connected to a plate in the chamber floor. A pulley systems allows users to manually adjust the height to accommodate various equipment under test (EUT) sizes. The E-field generator is easy to assemble and disassemble, and can be removed from the chamber when needed.

### Key Features

- Generates Large Area
- Uniform Vertical Electric Field
- 10 kHz to 30 MHz Frequency Range
- Accommodates Various EUT Sizes with Adjustable Height Feature
- Temperature Maintained with External Forced-air Cooling, and Monitored by Temperature Sensor
- Easy to Assemble/Disassemble and Remove from the Chamber

### Specifications

## Electrical Specifications

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**Frequency Minimum:** 10 kHz

**Frequency Maximum:** 30 MHz

**Input Impedance:** 50  $\Omega$

**Max RF Input Power:** 10 kW

**RF Connector:** 1-5/8" EIA

**Typical Field Strength:** at 10 kW: 75 V/m to 300 V/m

## Other Specifications

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- Two I/O Transition Plates
  - Two Hinged Crossbars
  - 12 Conductor Tubes
  - 28 Kwik-Flange Clamps
  - One High Power RF Load Assembly
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