



ATP10K100M

- M1 through M7
- Field Generator
- 3000 Watts CW
- 10kHz–100MHz

Features

AR RF/Microwave Instrumentation's Model ATP10K100M is a broadband, high power RF Field Generator. The unit is capable of generating intense fields in a large volume over a wide frequency range. This balanced parallel conductor transmission line produces both E (electric) and H (magnetic) fields, (See Figure 1).

The ATP10K100M is 2.4 meters long and 1.0 meter wide. Matching transformer and load resistors are built in and provide excellent VSWR characteristics over a frequency range of 10 kHz to 100 MHz.

To achieve maximum flexibility in use the ATP10K100M can be rotated and the height adjusted to accommodate the unit

under test. The unit is also mounted on a stand equipped with casters for maximum mobility. Items small enough to fit between the elements can be placed on a pedestal or table and the ATP10K100M adjusted to surround them. For larger items, the height and angle of the radiating elements can be changed for maximum field strength.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Specifications

POWER INPUT, CW: 3000 watts maximum

FREQUENCY RESPONSE: 10 kHz-100 MHz

INPUT IMPEDANCE: 50 ohms

VSWR: 2.0:1 max, 10 kHz-100 MHz;
6:1 max, 10-20kHz above 1kW input power

ELECTRIC FIELD INTENSITY: See Figure 1

RF INPUT CONNECTOR: See Model Configurations

COOLING: Natural convection to 40° ambient temperature

WEIGHT: 95 kg, 210 lb

SIZE (W x H x D maximum): 265 x 240 x 120 cm, 105 x 96 x 49 in

SIZE (W x H x D minimum): 265 x 206 x 120 cm, 105 x 81 x 49 in

EXPORT CLASSIFICATION: EAR99

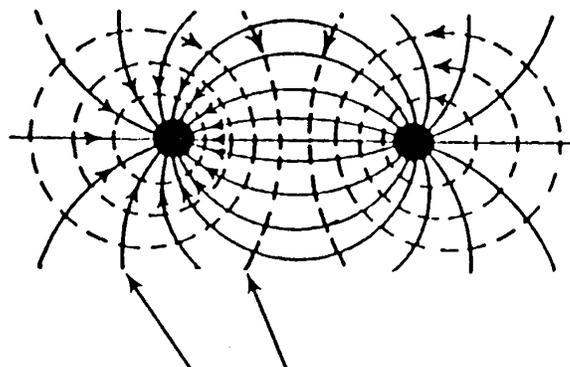


Fig. 1 E and H Field Pattern

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MODEL CONFIGURATIONS

Model Number	RF Input Connector Type	Description
ATP10K100M	C(f) (plus N(f) quick change connector)	Supplied with basic stand.
ATP10K100MM1	7-16 DIN female	Supplied without stand. See individual specification sheet.
ATP10K100MM2	7-16 DIN female	Supplied with basic stand. See individual specification sheet.
ATP10K100MM3	C(f) (plus N(f) quick change connector)	Supplied with 3-axis stand. See individual specification sheet.
ATP10K100MM4	7-16 DIN female	Supplied with 3-axis stand. See individual specification sheet.
ATP10K100MM6	7/8 EIA swivel	Supplied with 3-axis stand. See individual specification sheet.
ATP10K100MM7	7-16 DIN female	Supplied with reduced height basic stand. See individual specification sheet.

