

**Model ATP10K100MM4**  
**Field Generator**  
**3000 Watts CW**  
**10kHz–100MHz**

The AR RF/Microwave Instrumentation Model ATP10K100MM4 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. Twin conductor transmission lines produce both E (electric) and H (magnetic) fields (see Figure 1).

The ATP10K100MM4 is a balanced parallel conductor transmission line that is 2.4 meters long and 1.0 meter wide. It has been designed to match free space impedance of 377 ohms, which results in extremely efficient production of RF fields. 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 ATP10K100MM4 can be rotated 360 degrees and the field generator can be adjusted to accommodate the unit under test up to a maximum center line height of 68 inches (172.72cm). Items small enough to fit between the elements can be placed on a pedestal or table and the ATP10K100MM4 positioned to surround them. For larger items, the height and angle of the radiating elements must be changed for maximum field strength.

This M4 version of the ATP10K100M comes with a special stand which allows rotation of the field generation in three axes as well as height adjustment. This will allow the generator to be placed vertically and permit testing of upright objects such as equipment racks.

**SPECIFICATIONS**

POWER INPUT, CW .....	3000 watts maximum
FREQUENCY RANGE .....	10 kHz–100 MHz
INPUT IMPEDANCE.....	50 ohms
VSWR .....	2.0:1 maximum 10 kHz–100 MHz; 6:1 maximum 10–20 kHz above 1 KW input power
ELECTRIC FIELD INTENSITY .....	See Graph.
RF INPUT CONNECTOR .....	Type 7-16 DIN female
COOLING.....	Natural convection to 40° C ambient temperature
WEIGHT .....	159 kg (350lb)
SIZE (WxHxD).....	261.1 x 215.4 x 141.7 cm (102.8 x 84.8 x 55.8 in)

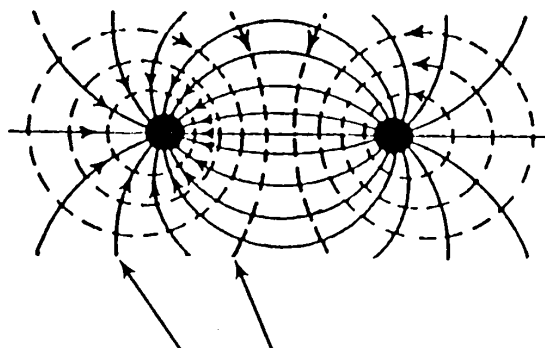
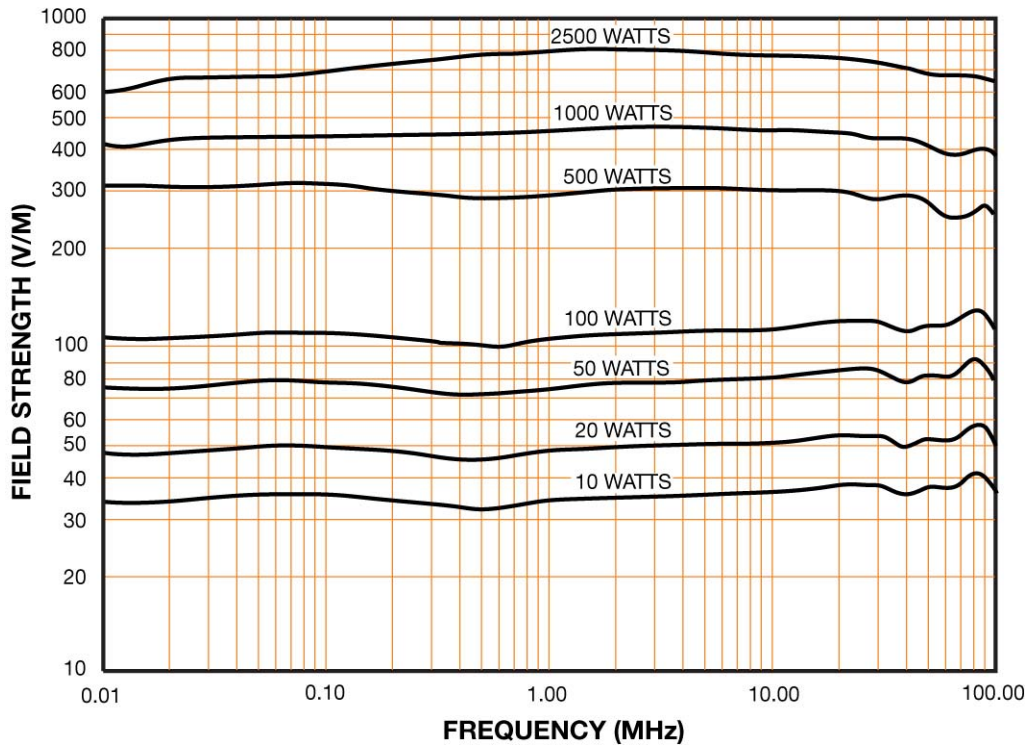


Fig. 1 E and H Field Pattern

**FIELD STRENGTH vs. FREQUENCY  
MEASURED BETWEEN CONDUCTORS**



**FIELD STRENGTH vs. FREQUENCY  
MEASURED AT 1 METER**

