

**Model ATL150M1G,  
M1 through M3  
Antenna  
150MHz–1000MHz**

The Model ATL150M1G is a wide band, high-gain, log periodic antenna with gain capabilities of 7.5 dB over isotropic (average) and gain flatness of  $\pm 1$  dB. The Model ATL150M1G supplies the constant, high-intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. It can also be used as a receiving antenna for RF emissions testing. The Model ATL150M1G is compact and lightweight for ready mobility, yet is built tough for the extra demands of outdoor use and easily mounts on a flat surface or tripod. The Model ATL150M1G series allows polarization change without removing the antenna from the tripod.

**SPECIFICATIONS**

FREQUENCY RANGE .....	150 - 1000 MHz
POWER INPUT (maximum) .....	See Graph
POWER GAIN (over isotropic) .....	6.5 dB minimum 7.5 dB average
GAIN FLATNESS .....	$\pm 1.0$ dB
IMPEDANCE .....	50 ohms nominal
VSWR	
Maximum .....	1.8:1
Average.....	1.5:1
BEAM WIDTH (average)	
E Plane .....	60°
H Plane .....	105°
FRONT TO BACK RATIO (minimum) .....	15 dB
CONNECTOR .....	See Model Configurations
SIZE (WxHxD).....	102.0 x 13.0 x 91.0 cm (40.0 x 5.1 x 36.0 in)
WEIGHT .....	7.0 kg (15 lb)
MOUNTING PROVISIONS.....	Wall bracket included. May also be tripod-mounted using the optional TP1000B tripod.

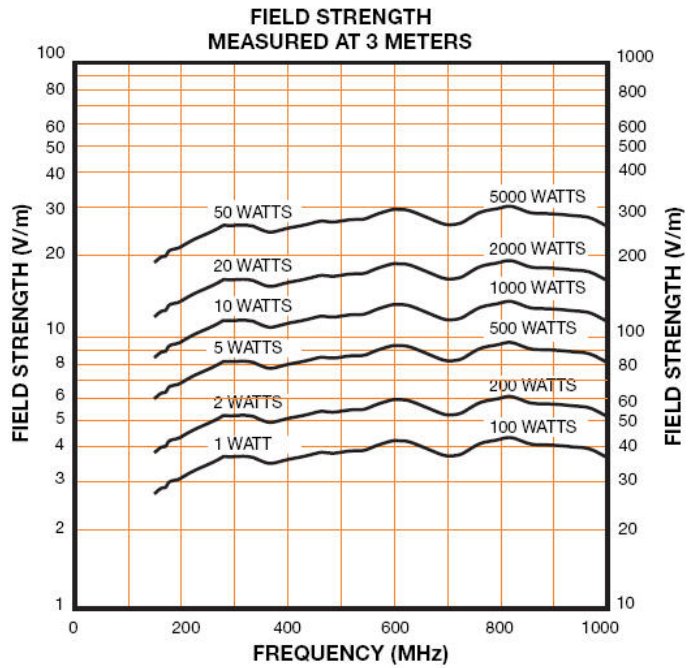
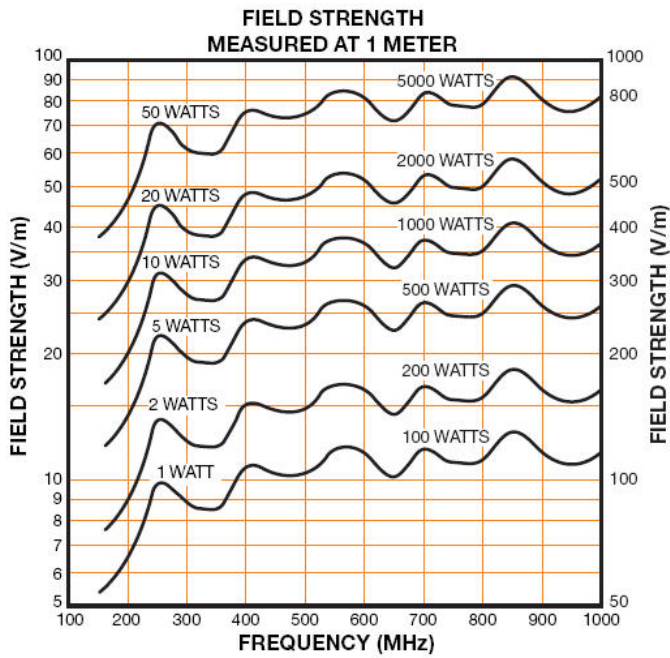
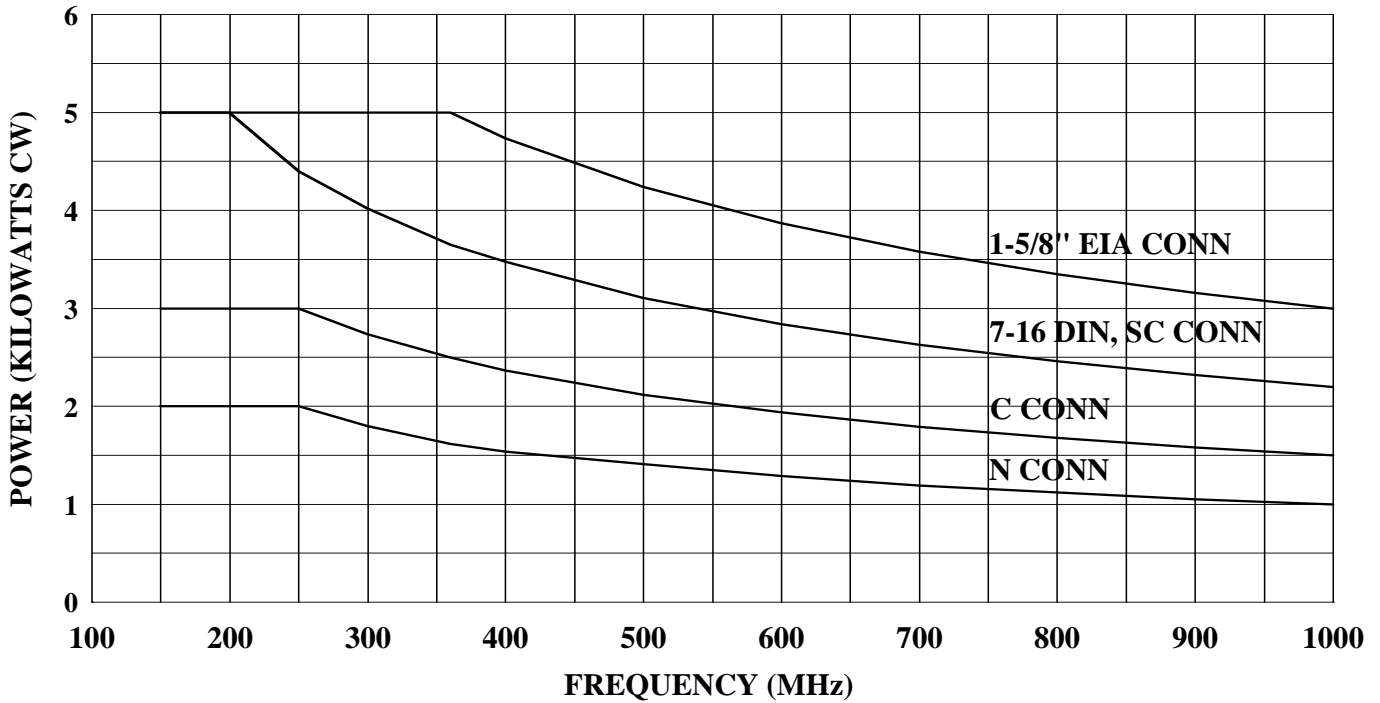


**Rotation Mechanism**

**MODEL CONFIGURATIONS**

Model	Connector	Power Input
ATL150M1G	N (f) quick change; C (f) for higher power	See Graph
ATL150M1GM1	7-16 DIN female	See Graph
ATL150M1GM2	1-5/8" EIA flange	See Graph
ATL150M1GM3	SC female	See Graph

### ATL150M1G POWER VS. FREQUENCY



Note: Curves above 1000 and 2000 watts do not apply past power-frequency limits of the antenna.

Field space has been measured in free-space conditions. Individual shielded rooms, amplifiers, and test system conditions will influence performance. Field strength also varies with frequency and position of antenna and EUT in non-anechoic testing environments.