



**Model ATH400M1G,  
M1 through M3  
Antenna  
400MHz–1000MHz**

The Model ATH400M1G is a high gain horn antenna specially designed for use in RF Susceptibility Testing. Its high gain characteristics permit achievement of higher electric fields per watt of input power. Exhibiting generally increasing gain with increasing frequency, the ATH400M1G helps compensate for losses that occur elsewhere in an RF test system at high frequencies. The Model ATH400M1G is intended for use with the 2000W1000 and other high power amplifiers.

**SPECIFICATIONS**

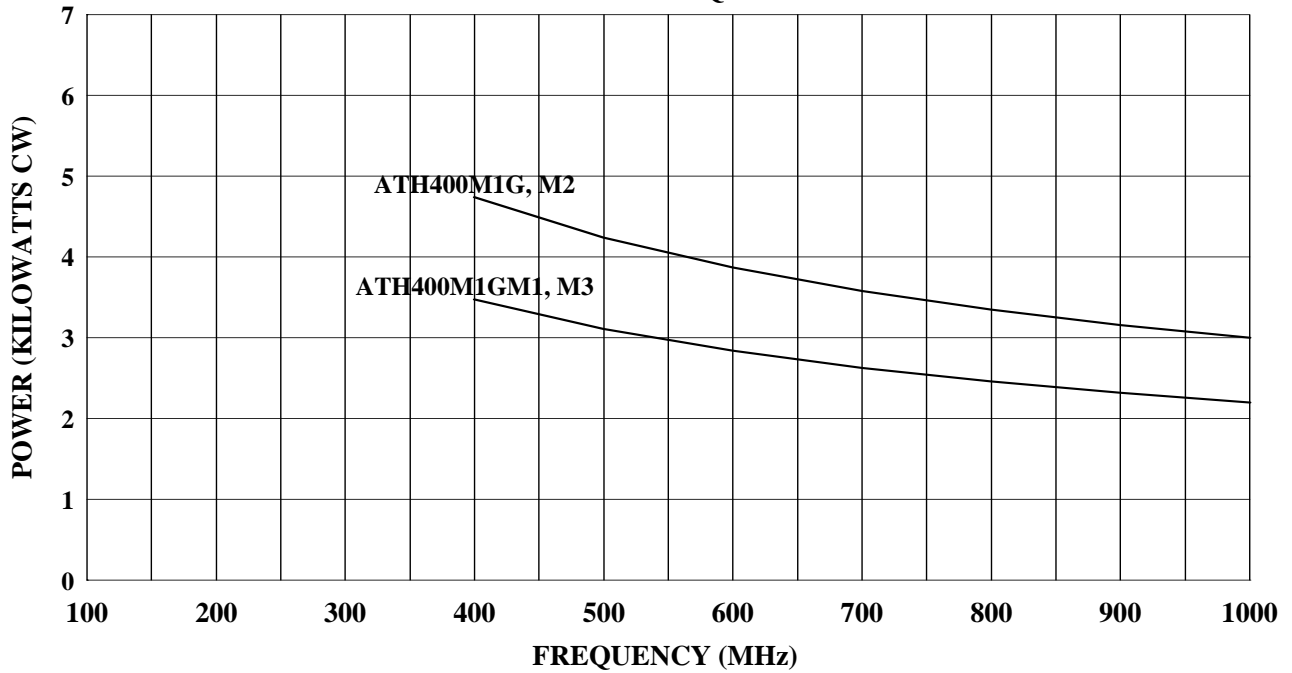
FREQUENCY RANGE .....	400-1000 MHZ
POWER INPUT .....	See Graph
POWER GAIN .....	10 dB minimum typically increasing to 15 dB at 1000 MHz
IMPEDANCE .....	50 ohms nominal
VSWR .....	2.5:1 maximum 1.5:1 average
BEAMWIDTH (Front to Back) .....	Typical curves available on request
CONNECTOR .....	Quick change block (See Model Configurations)
MOUNTING PROVISIONS.....	Rear flange for wall mount Pads with ¼ - 20 thread for tripod mount
WEIGHT (maximum) .....	9.1 kg (20 lbs)
DIMENSIONS (W x H x D) .....	56.4 x 79.3 x 73.7 cm (22.2 x 31.2 x 29.0 in)

**MODEL CONFIGURATIONS**

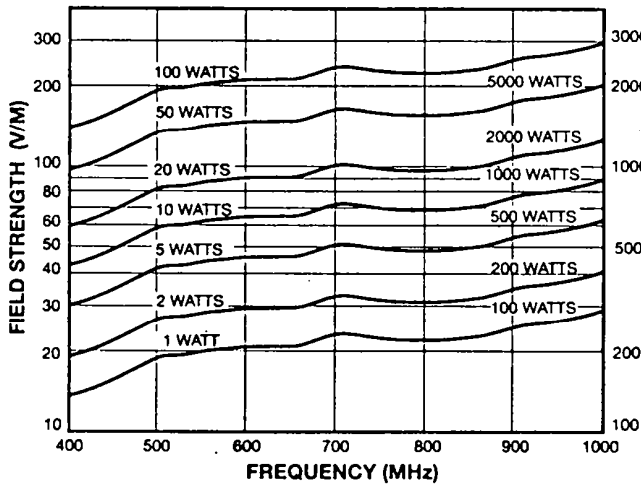
Model Number	Connector	Power Input
ATH400M1G	1-5/8 EIA flange	3000 Watts max (See Graph)
ATH400M1GM1	7-16 DIN female	2200 Watts max (See Graph)
ATH400M1GM2*	1-5/8 EIA flange	3000 Watts max (See Graph)
ATH400M1GM3*	7-16 DIN female	2200 Watts max (See Graph)

\*M2 and M3 options include A2LA calibration: 1 meter horizontal and vertical polarizations.

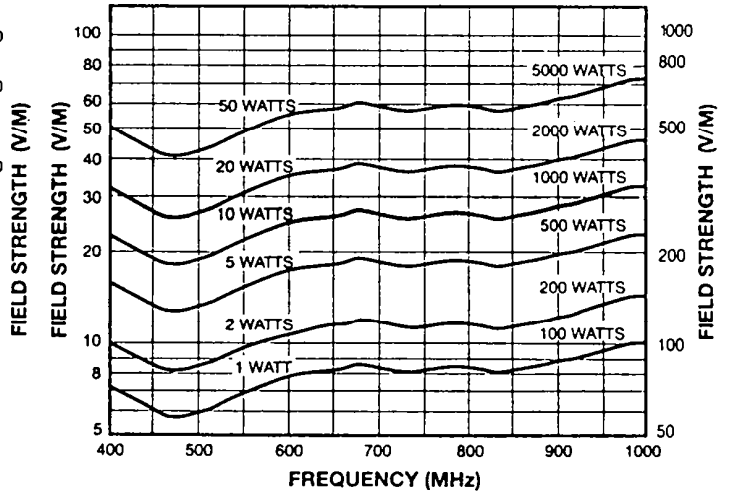
### POWER VS. FREQUENCY



**FIELD STRENGTH  
MEASURED AT 1 METER**



**FIELD STRENGTH  
MEASURED AT 3 METERS**



Field strengths have 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.