



**Model ATH200M1G Antenna,
M1 through M5
5000 Watts CW
200MHz–1000MHz**

The Model ATH200M1G high-gain horn antenna exhibits increasing gain with increasing frequency (up to 18dB at 1000MHz). With this useful performance characteristic, the antenna helps compensate for losses that occur elsewhere in an RF test system - losses which generally increase with frequency.

The Model ATH200M1G is well suited for either shielded room or free space testing. Optimum performance is achieved when it is used with our Model 2000W1000 or for even higher fields, our Model 3000W1000 broadband amplifier for RF susceptibility testing.

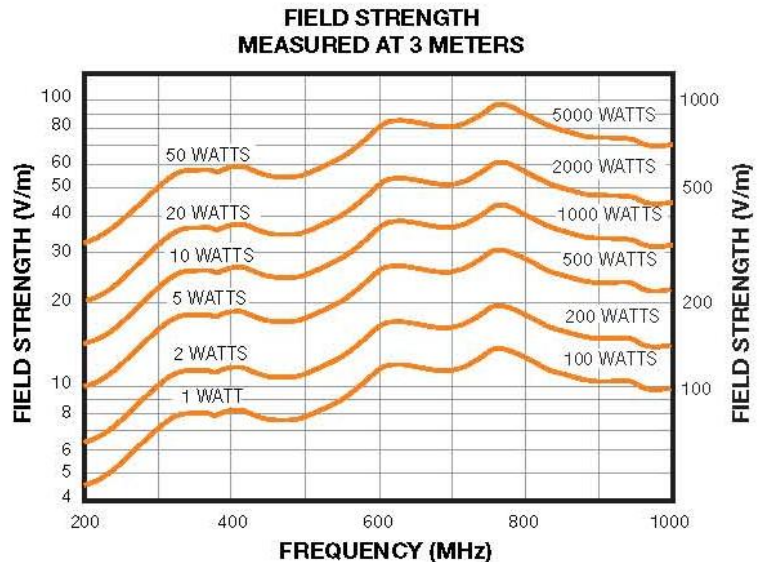
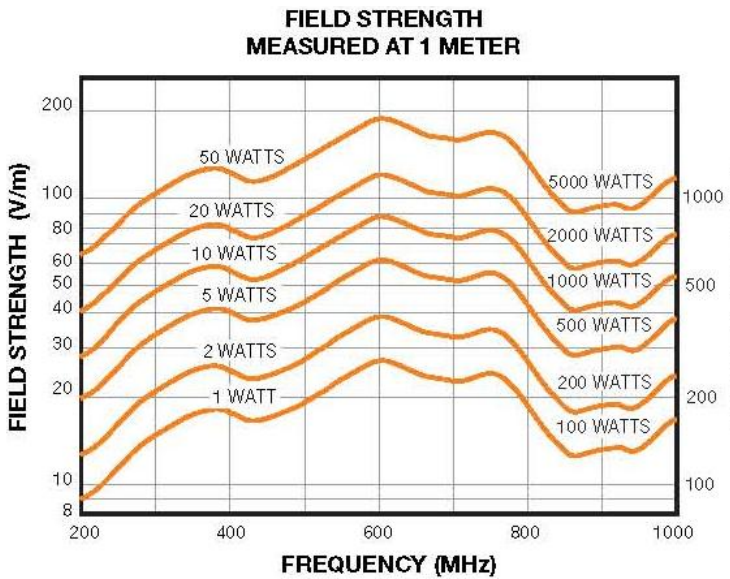
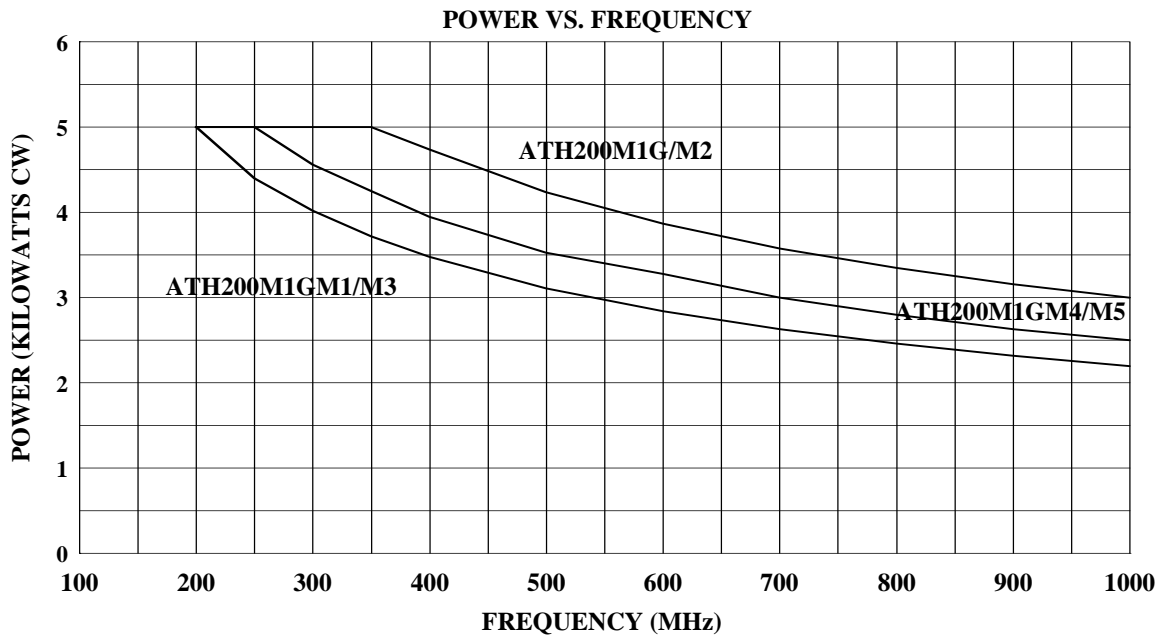
In shielded rooms, reflections and room losses may reduce the available field. AR suggests a design safety factor of 100% in the selection of power amplifiers.

SPECIFICATIONS

| | |
|-------------------------------------|---|
| FREQUENCY RANGE | 200–1000 MHz |
| POWER INPUT | See Graph (Figure 1) |
| POWER GAIN | 10dBi minimum, typically increasing to 18dBi at 1000MHz |
| IMPEDANCE | 50 ohms nominal |
| VSWR | 2.5:1 maximum 1.5:1 average |
| BEAMWIDTH (front to back)..... | Typical curves available on request |
| CONNECTOR | See Model Configuration |
| MOUNTING PROVISIONS..... | Pads with 3/8-16 thread and hole pattern for stand mounting vertically or horizontally. |
| HEAVY DUTY TRIPOD AND ADAPTER | See Model Configuration |
| WEIGHT | 46 kg (100 lb) |
| SIZE (WxHxD)..... | 109.2 x 145.8 x 175.3 cm, (43.0 x 57.0 x 69.0 in.) |

MODEL CONFIGURATIONS

| MODEL NUMBER | CONNECTOR | POWER INPUT | TRIPOD AND ADAPTER |
|---------------------|------------------|----------------------|---------------------------|
| ATH200M1G | 1 5/8 EIA flange | See Graph (Figure 1) | INCLUDED |
| ATH200M1GM1 | 7-16 DIN female | See Graph (Figure 1) | INCLUDED |
| ATH200M1GM2 | 1 5/8 EIA Flange | See Graph (Figure 1) | NOT INCLUDED |
| ATH200M1GM3 | 7-16 DIN Female | See Graph (Figure 1) | NOT INCLUDED |
| ATH200M1GM4 | LC Female | See Graph (Figure 1) | INCLUDED |
| ATH200M1GM5 | LC Female | See Graph (Figure 1) | NOT INCLUDED |



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.