ATH800M6G

- M1-M4
- Horn Antenna
- 0.8GHz–6GHz

Features

The Model ATH800M6G is a wide band, high gain, microwave horn antenna that provides high field intensities. With a minimum gain of 11 dBi, the Model ATH800M6G supplies the high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. Based on the popular ATH800M5GA, the ATH800M6G has similar performance through 5GHz, with additional frequency coverage up to 6GHz, and is ideal for use with AR's 6GHz amplifier models. Specially designed septums are installed to focus the energy ensuring the intensity of the field for 3 meter testing.

The Model ATH800M6G is compact and lightweight for ready mobility, yet is built tough enough for the extra demands of outdoor use. Part of a family of microwave frequency antennas, the Model ATH800M6G provides the lower frequency microwave response required for many often used test specifications. With the wide bandwidth and high gain provided by the ATH800M6G, this antenna is ideally suited for radar pulse testing in the multiple radar bands over the 0.8-6GHz frequency range.

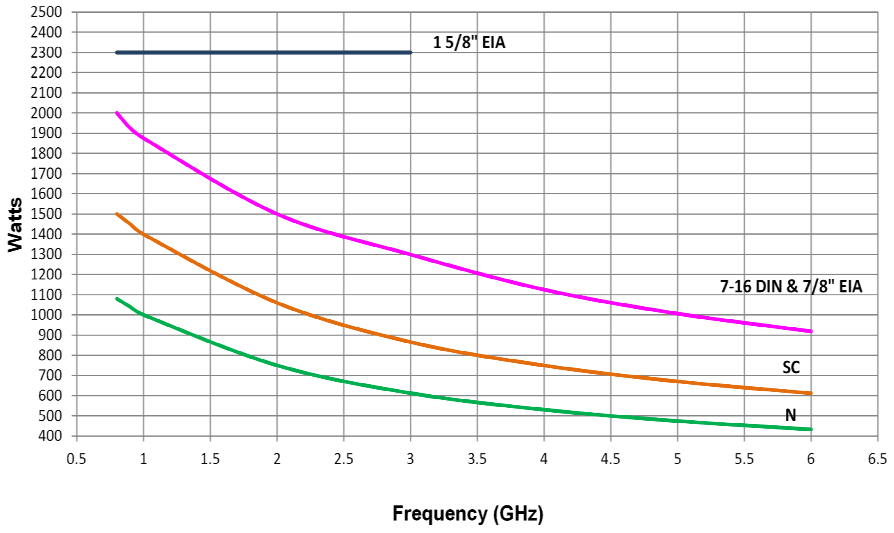
The ATH800M6G can also be custom calibrated to the user's requirement for use in RF emission testing. The calibrated model is designated by adding a 'CC' suffix to the model.


Shown on TP1000B Tripod

Calibration details must be provided using Form 701. Contact factory for details.

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.

ATH800M6G CW INPUT POWER



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Specifications and Graphs

FREQUENCY RANGE: 0.8-6 GHz (.8-3 GHz with 1-5/8" EIA connector)

POWER INPUT (maximum): See Model Configurations for CW rating

GAIN: 11 dBi minimum, typically increasing to 22 dBi at 6 GHz. See curve.

IMPEDANCE: 50 ohms nominal

VSWR: Maximum 2.5:1; Average 1.6:1

BEAMWIDTH (average): See curve

CONNECTOR: See Model Configurations.

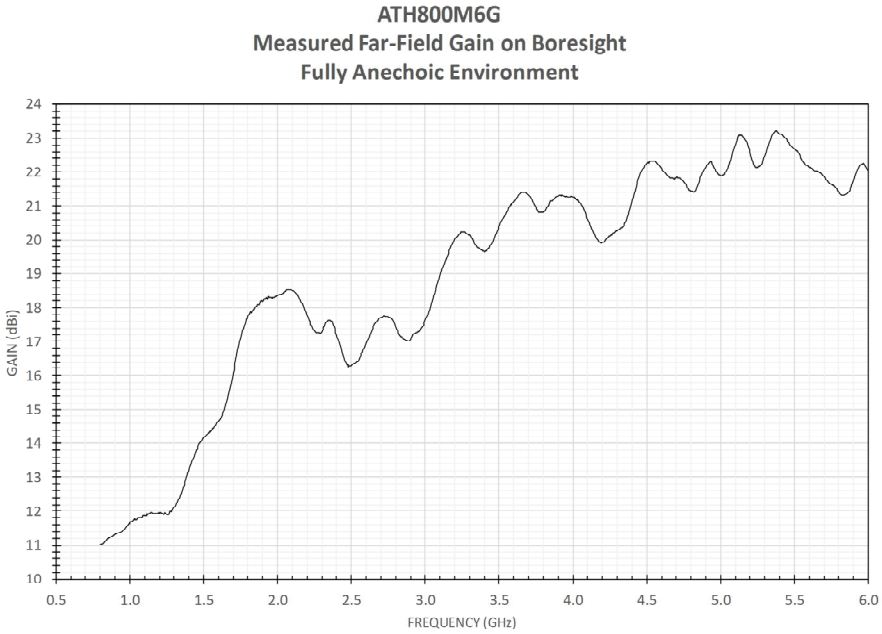
MOUNTING PROVISIONS: Mounting pads on two adjacent sides for tripod, and back plate.

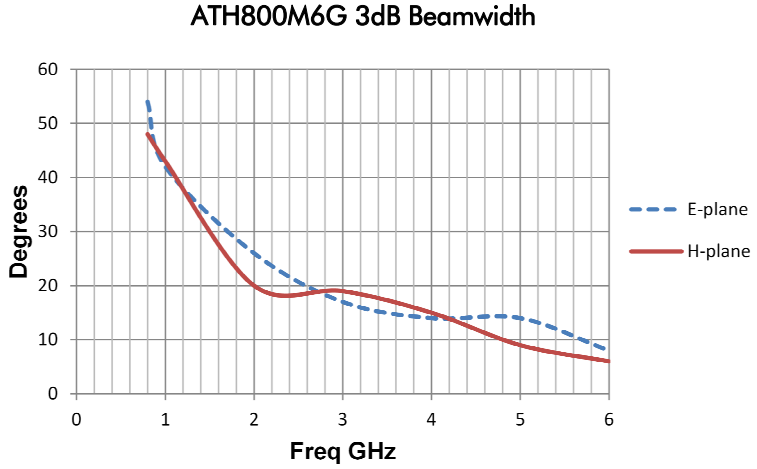
WEIGHT: 7.26 kg, 16 lbs

SIZE (W x H x D): 46.3 x 46.3 x 69.2 cm (18.25 x 18.25 x 27.25 in

EXPORT CLASSIFICATION: EAR99

Model Number	Connector	CW Input Power
ATH800M6G	7-16 DIN Female	See Input Power Chart
ATH800M6GM1	N Female	See Input Power Chart
ATH800M6GM2	SC Female	See Input Power Chart
ATH800M6GM3	7/8" EIA	See Input Power Chart
ATH800M6GM4	1-5/8" EIA	See Input Power Chart





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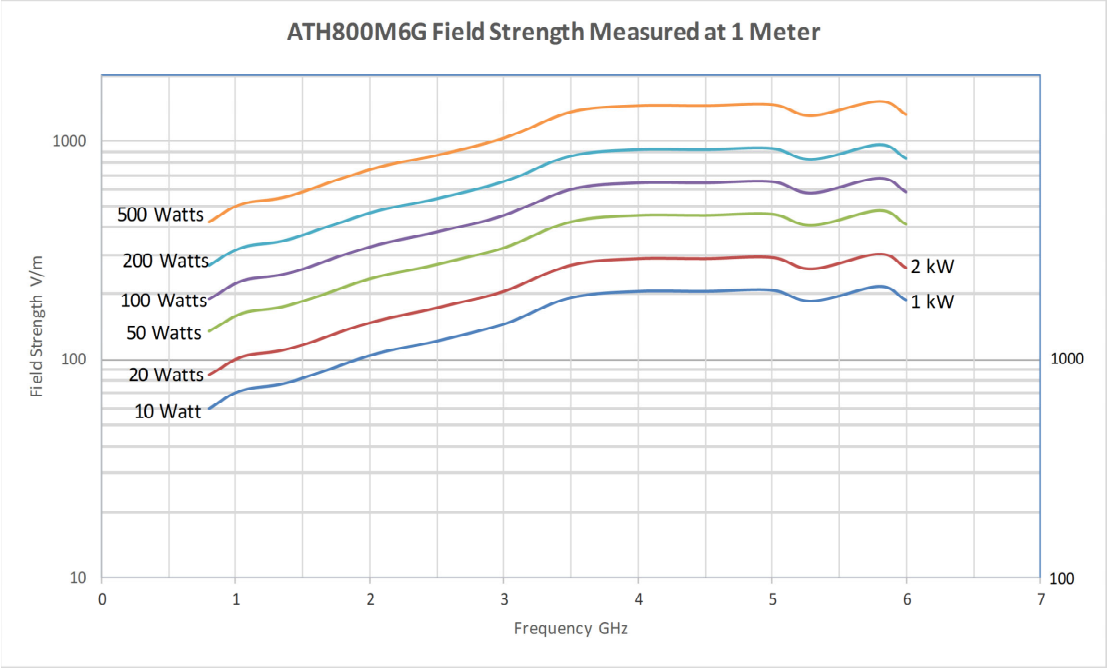

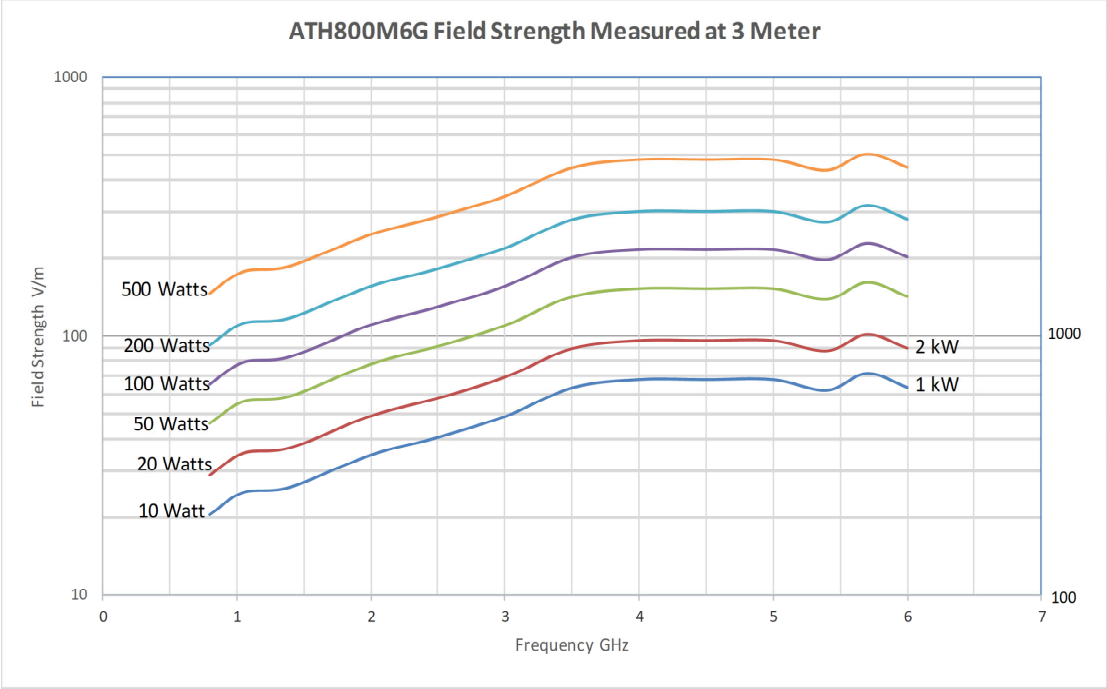

Field strengths have been measured in free-space conditions. Individual shielded rooms, amplifiers, and test-system conditions will influence performance. Field strength also varies with frequency and position of antenna and EUT in non-anechoic testing environment.