



160 School House Road, Souderton, PA 18964-9990 USA
Phone 215-723-8181•FAX 215-723-5688

MODEL AT4003, M1
ANTENNA
4-8GHz

The Model AT4003 is a wide band, high gain, microwave horn antenna that provides field intensities of up to 250 V/m. With a minimum gain of 11.5dB over isotropic, the Model AT4003 supplies the constant high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. A removable gain enhancer is included to insure the required field strength when conducting 3 meter testing. The Model AT4003 is compact and light weight for ready mobility, yet is built tough enough for the extra demands of outdoor use and easily mounts on a tripod. Part of a family of microwave frequency antennas the Model AT4003 provides the 4-8GHz response required for many often used test specifications.

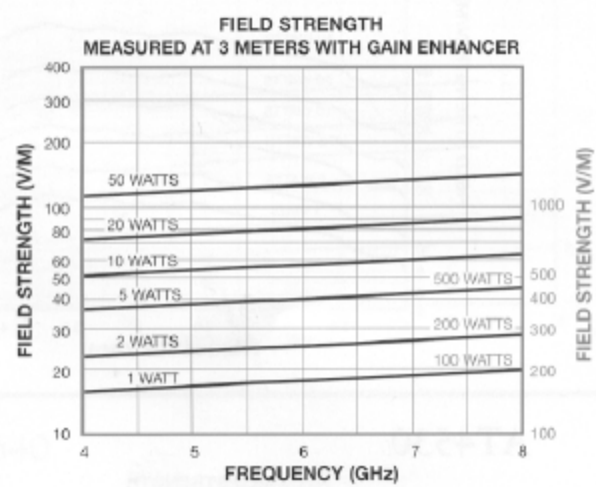
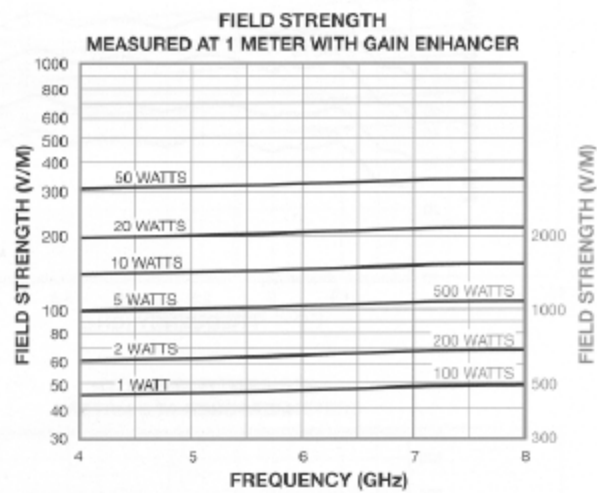
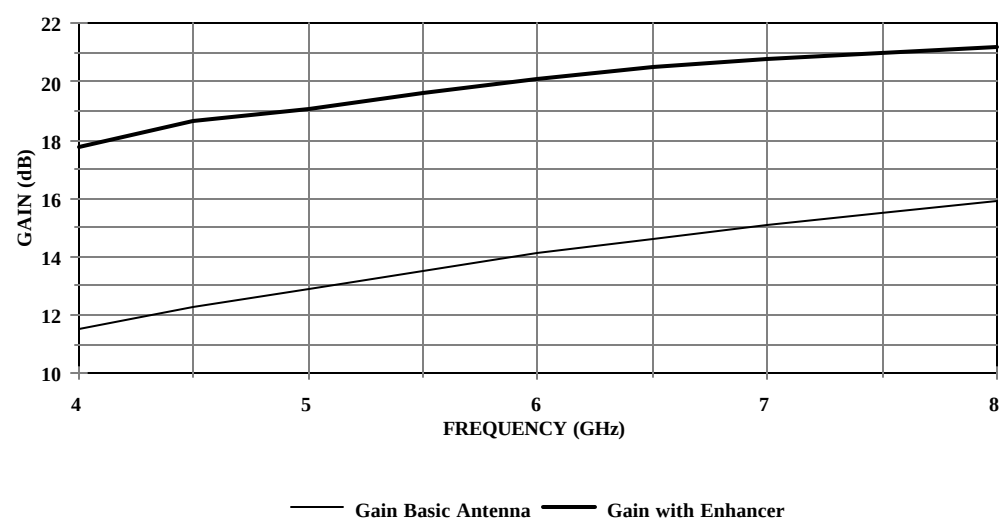
SPECIFICATIONS

FREQUENCY RANGE	4-8GHz
POWER INPUT (maximum)	See Model Configuration
POWER GAIN (over isotropic)	See Curve
With removable gain enhancer	See Curve
IMPEDANCE	50 ohms nominal
VSWR	
Maximum	1.6:1
Average	1.3:1
BEAM WIDTH (average)	
E Plane	See Curve
H Plane	See Curve
FRONT TO BACK RATIO (minimum)	20 dB
CONNECTOR	See Model Configuration
MOUNTING PROVISIONS	May also be tripod mounted in two perpendicular planes using optional tripod.
WEIGHT (with enhancer)	2.27 kg (5.0 lbs)
SIZE (WxHxD) (without gain enhancer)	7.62 x 10.3 x 15.14 cm 3.00 x 4.06 x 5.96 in
SIZE (WxHxD) (with gain enhancer)	21.6 x 21.6 x 30.5 cm 8.5 x 8.5 x 12 in

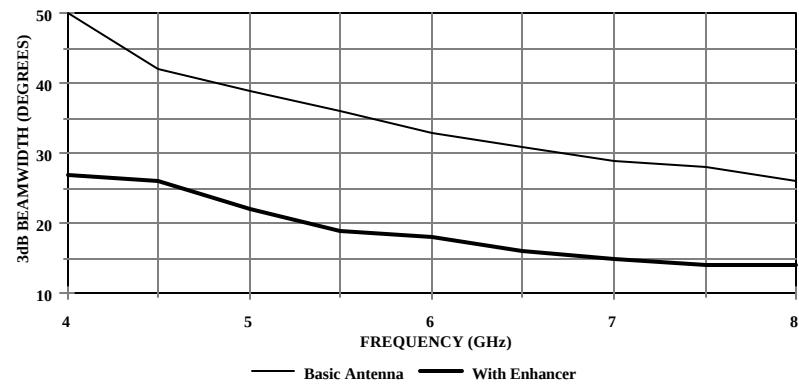
Model Configuration

Model Number	Connector	Power
AT4003	N(F)	250 watts
AT4003M1	SMA(F)	120 watts

MODEL AT4003



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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 environments.