

Model ATR26M6G-1
Radiant Arrow Antenna
26MHz–6000MHz

The Model ATR26M6G-1 is a wide band, high gain, log periodic antenna that is uniquely suited for use in both traditional applications as well as in new compact chambers. The proprietary design, utilizing a “bent element” approach combined with additional innovations, provides a size reduction of approximately 75% without sacrificing key electrical performance such as gain and beamwidth. The ATR26M6G-1 features a reduced profile and extremely low VSWR making it an excellent choice for high field-strength immunity testing. The considerable size reduction minimizes field loss resulting from “room loading”. This is especially troublesome when conventional log periodics are used in moderate-size enclosures. The exceptionally broad frequency range addresses existing RF susceptibility requirements as well as anticipated future developments and is matched to work directly with AR’s “W”, “S” and “A” series RF power amplifiers. The robust design can accommodate the high power levels necessary to generate significant E-fields. This antenna is built tough enough for outdoor use. The antenna can be supported with the AP5010B antenna positioner or the TP1000BM3 tripod with ballast tray.



The Model ATR26M6G-1 antenna allows polarization change without removing the antenna from its positioner.

The ATR26M6G-1 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 desired model version. Calibration details must be provided using Form 701. Contact factory for details.

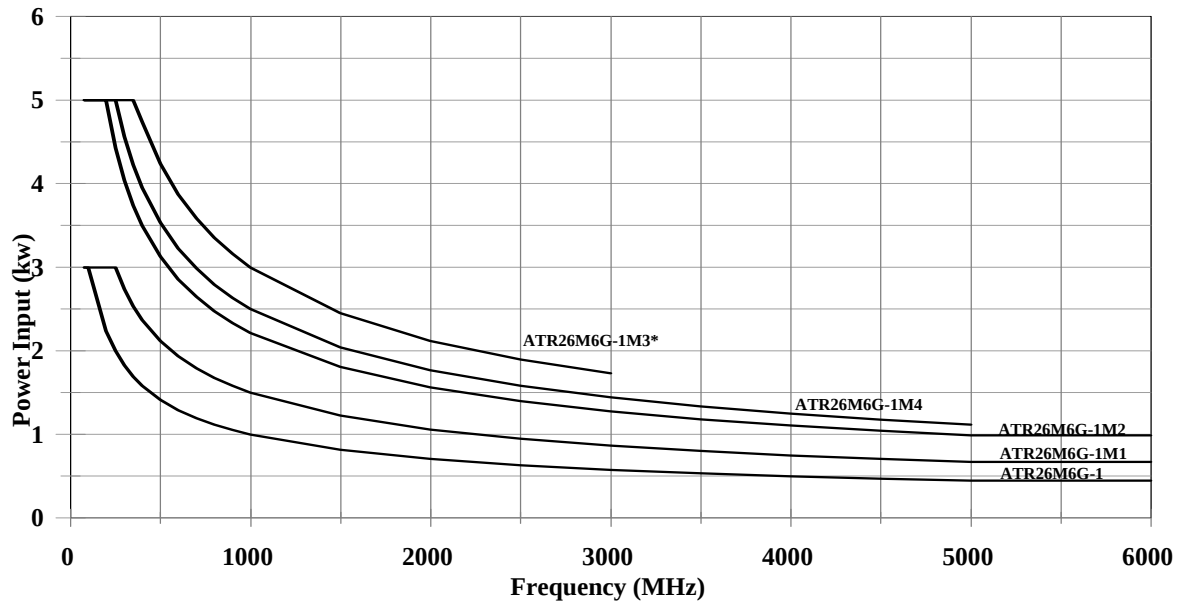
SPECIFICATIONS

FREQUENCY	26–6000 MHz
POWER INPUT, CW	See graph
POWER GAIN (over isotropic)	-4 to 6 dB (26–80 MHz) 6 dB (80–6000 MHz)
GAIN FLATNESS	±1.5 dB (80–6000 MHz)
IMPEDANCE	50 ohms nominal
VSWR (maximum)	6.0:1 (26–80 MHz) 3.0:1 (80–6000 MHz)
BEAMWIDTH (average).....	See graph
CONNECTOR	See model configurations
SIZE (W x H x D).....	218.4 x 73.7 x 161.3 cm (86 x 29 x 63.5 in)
WEIGHT (maximum)	13.6 kg (30 lb)
EXPORT CLASSIFICATION	EAR99

MODEL CONFIGURATIONS

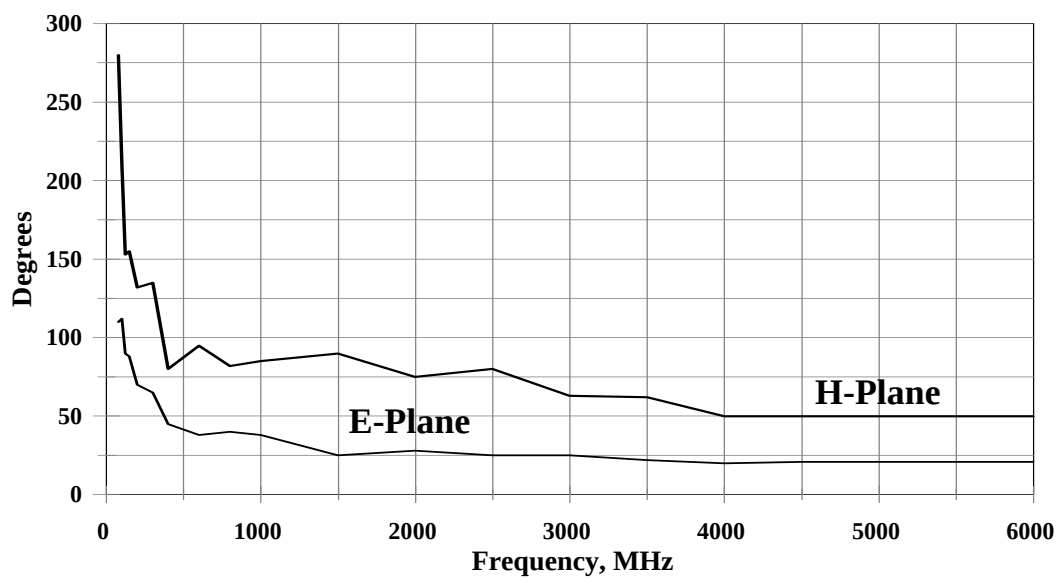
MODEL	CONNECTOR
ATR26M6G-1	N female
ATR26M6G-1M1	C female
ATR26M6G-1M2	7-16 female
ATR26M6G-1M3	1-5/8 EIA female
ATR26M6G-1M4	LC female

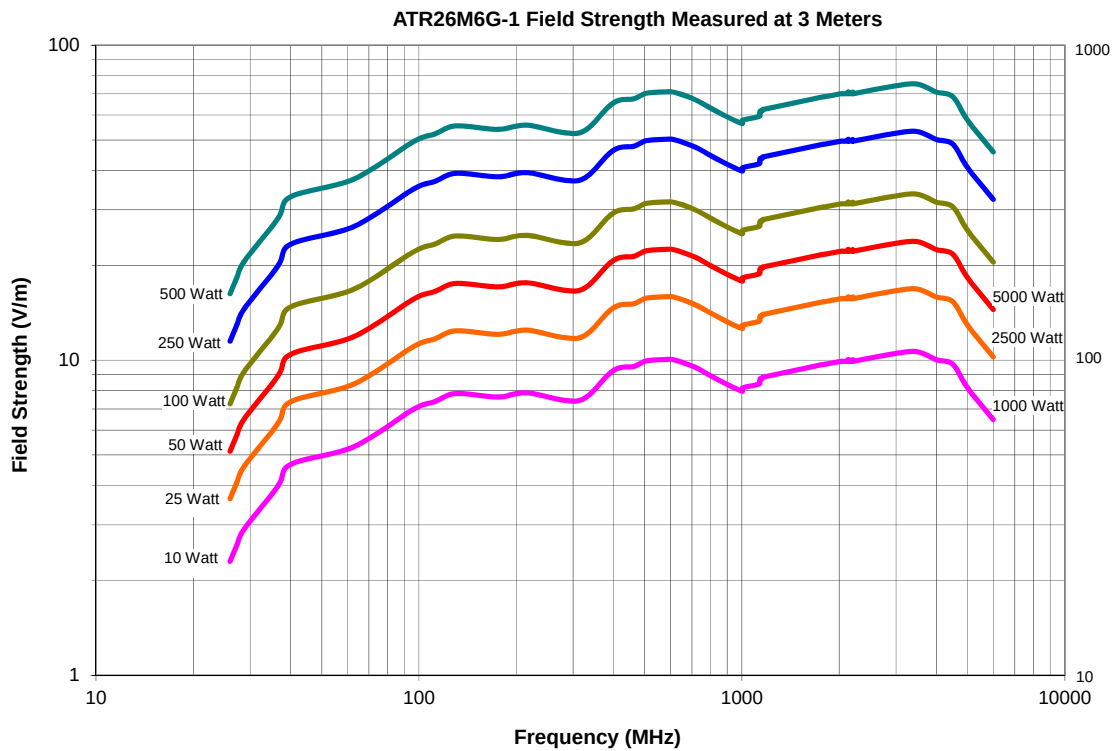
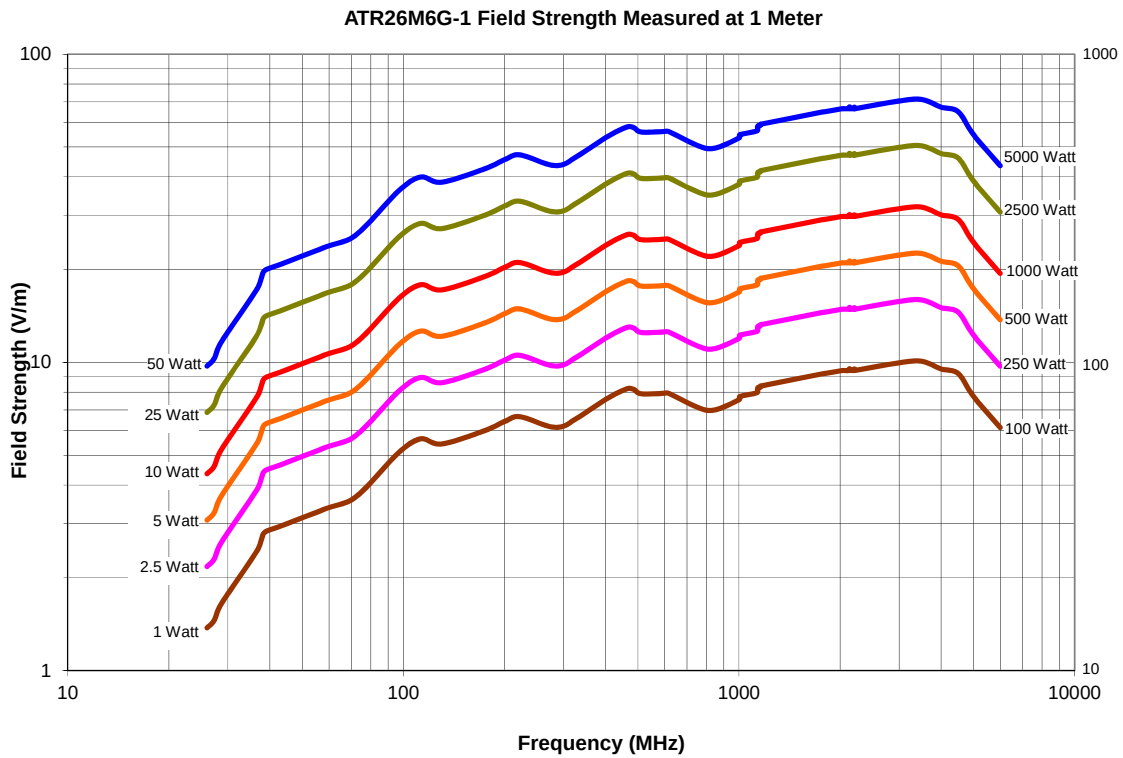
Power Rating



* Upper frequency limitation for 1 5/8 EIA connector is 3 GHz.

3 dB Beamwidth





Field strength 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.