



Model ATH18G27
Antenna
18GHz–26.5GHz

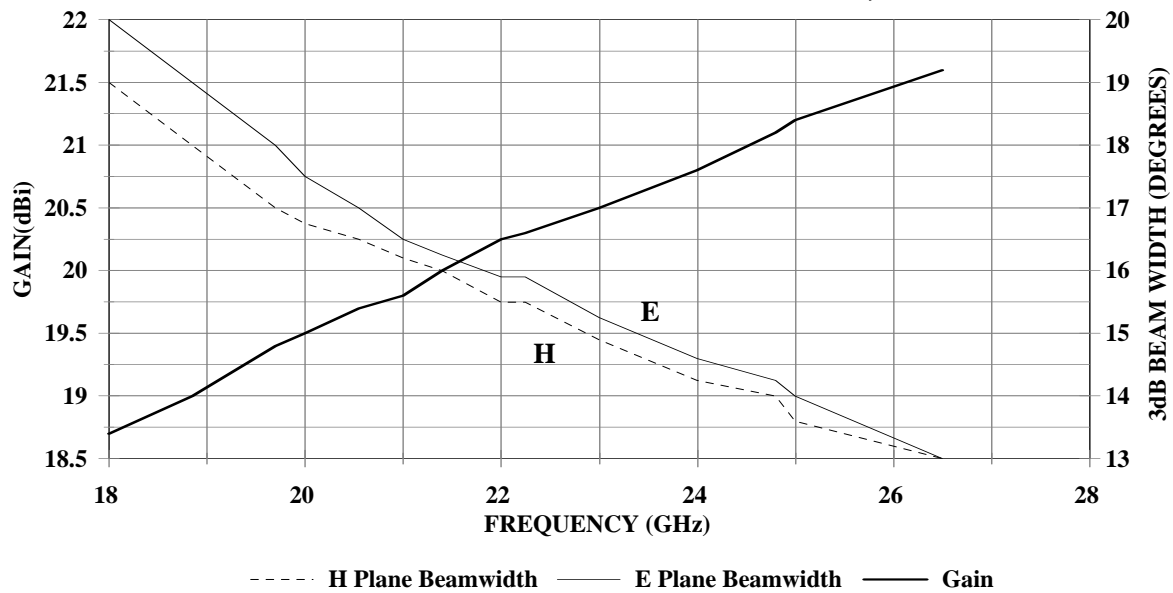
The Model ATH18G27 is a wide band, high gain, high power microwave horn antenna. With a minimum gain of 18.8dB over isotropic, the Model ATH18G27 supplies the high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. The Model ATH18G27 is extremely compact and light weight for ready mobility, yet is built tough enough for the extra demands of outdoor use and easily mounts on a rigid waveguide by the waveguide flange. Part of a family of microwave frequency antennas, the Model ATH18G27 provides the 18.0-26.5GHz response required for many often used test specifications.

The ATH18G27 is ideally suited for use with the AR RF/Microwave Instrumentation Model 40T18G26A and other high power amplifiers in this frequency range.

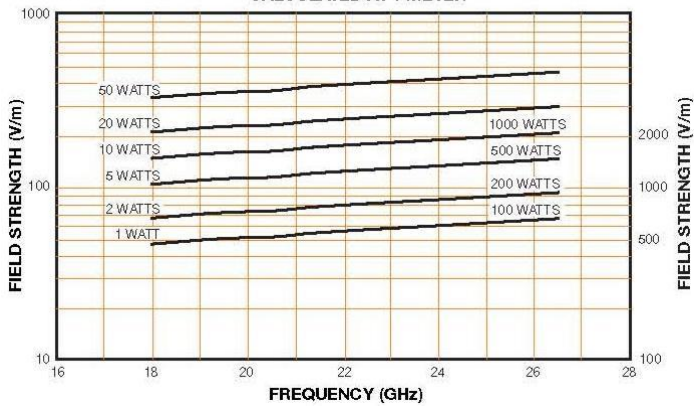
SPECIFICATIONS

FREQUENCY RANGE	18.0-26.5GHz
POWER INPUT (maximum)	350 watts CW
POWER GAIN (over isotropic)	See Curve
VSWR	
Maximum	1.5:1
Average.....	1.3:1
BEAM WIDTH (average)	
E Plane	See Curve
H Plane	See Curve
CONNECTOR	WR-42 waveguide
MOUNTING PROVISIONS.....	Waveguide flange
WEIGHT (maximum)	56.7g (2 oz.)
SIZE (WxHxD).....	5.74 x 4.09 x 11.4 cm (2.26 x 1.61 x 4.49 in)

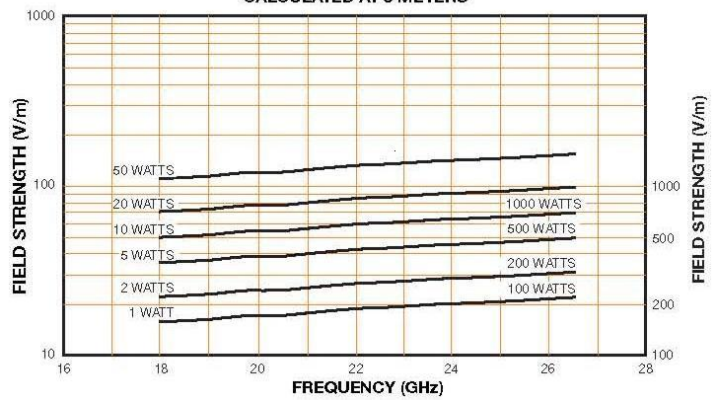
ATH18G27 GAIN & 3dB Beam Width vs Freq



FIELD STRENGTH CALCULATED AT 1 METER



FIELD STRENGTH CALCULATED 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.