



**Model ATH33G50  
Antenna, Standard Gain  
33GHz–50GHz**

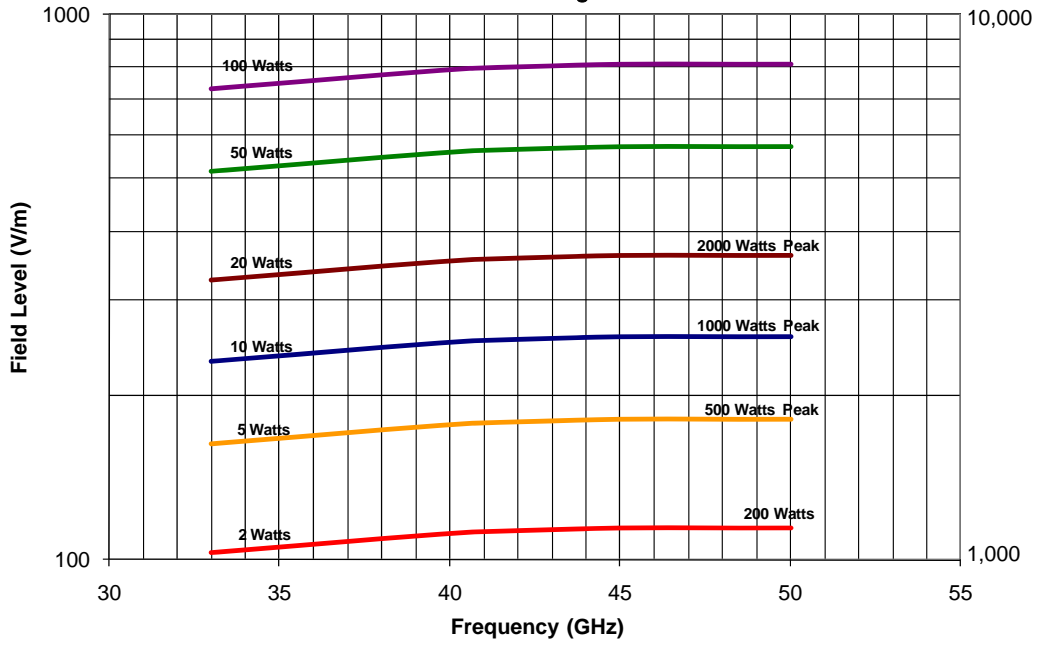
The Model ATH33G50 is a wide band, high gain, high power microwave horn antenna. With a minimum gain of 20dB over isotropic, the Model ATH33G50 supplies the high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. The Model ATH33G50 is extremely compact 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 ATH33G50 provides the 33-50GHz response required for many often used test specifications.

The Model ATH33G50 standard gain pyramidal horn antenna is electroformed to give precise dimensions and reproducible electrical characteristics. The Model ATH33G50 is used to measure gain for other antennas by comparing the signal level of a test antenna to the signal level of a test antenna to the standard gain horn and adding the difference to the calibrated gain of the standard gain horn at the test frequency. The Model ATH33G50 is also used as a reference source in dual-channel antenna test receivers and can be used as a pickup horn for radiation monitoring.

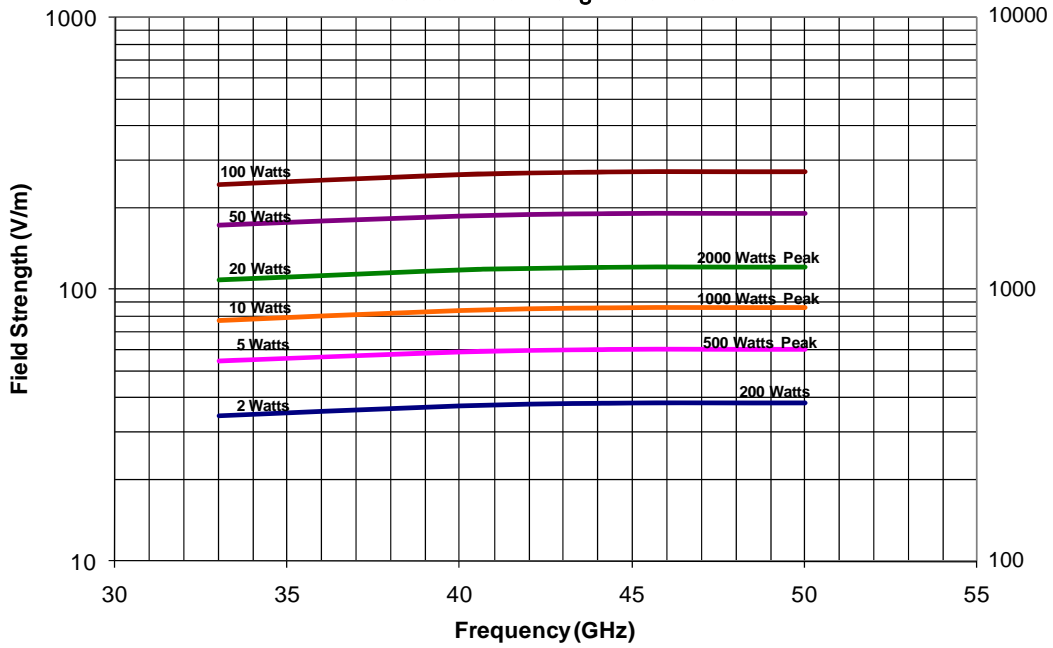
**SPECIFICATIONS**

FREQUENCY RANGE .....	33-50GHz
POWER INPUT (maximum) .....	240 watts CW 2000 watts Peak
POWER GAIN (over isotropic) .....	20 ± 2dB
VSWR	
Average.....	1.2:1
CONNECTOR .....	WR 22 waveguide
MOUNTING PROVISIONS.....	Waveguide flange
SIZE (WxHxD).....	4 x 3 x 9 cm (1.57 x 1.18 x 3.54 in)
WEIGHT .....	0.15 kg (0.33 lbs)

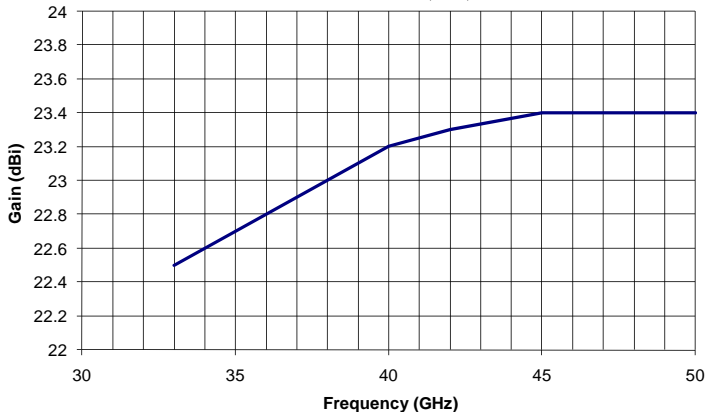
ATH33G50 Field Strength at 1 meter



ATH33G50 Field Strength at 3 meters



ATH33G50 Gain (dBi)



ATH33G50 3dB Beamwidth

