ATH26G40A

- Antenna
- 26.5GHz–40GHz

Features

The Model ATH26G40A is a wide band, high gain, high power microwave horn antenna. With a minimum gain of 18.5dB over isotropic, the Model ATH26G40A supplies the high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. The Model ATH26G40A 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 ATH26G40A provides the 26.5-40GHz response required for many often used test specifications.

The ATH26G40A is ideally suited for use with the AR Model 40T26G40A and other high power amplifiers in this frequency range. 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.

Specifications

FREQUENCY RANGE: 26.5-40GHz

POWER INPUT (maximum): 400 watts CW

POWER GAIN (over isotropic): See Curve

VSWR: Typical 1.25:1

BEAMWIDTH (average): See curve

CONNECTOR: WR-28 waveguide

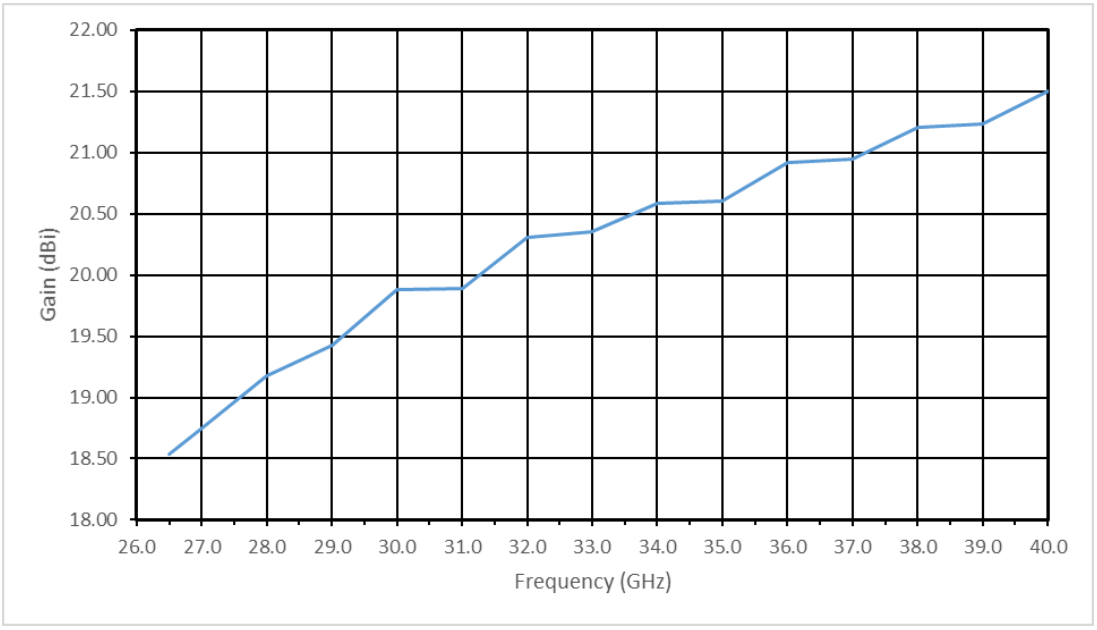
MOUNTING PROVISIONS: Waveguide flange

WEIGHT: 50 g (1.8 oz)

SIZE (W x H x D): 3.19 x 4.04 x 7 cm (1.26 x 1.59 x 2.76 in)

EXPORT CLASSIFICATION: EAR99

GAIN VS FREQUENCY



AR RF/Microwave Instrumentation
160 Schoolhouse Rd
Souderton, PA 18964
215-723-8181

For an applications engineer call: 800.933.8181

www.arworld.us

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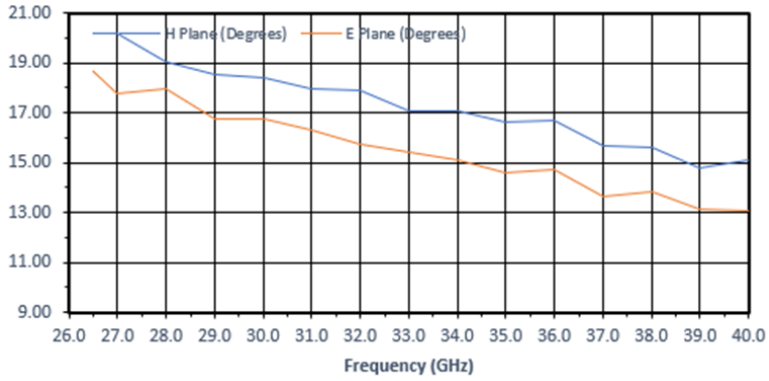
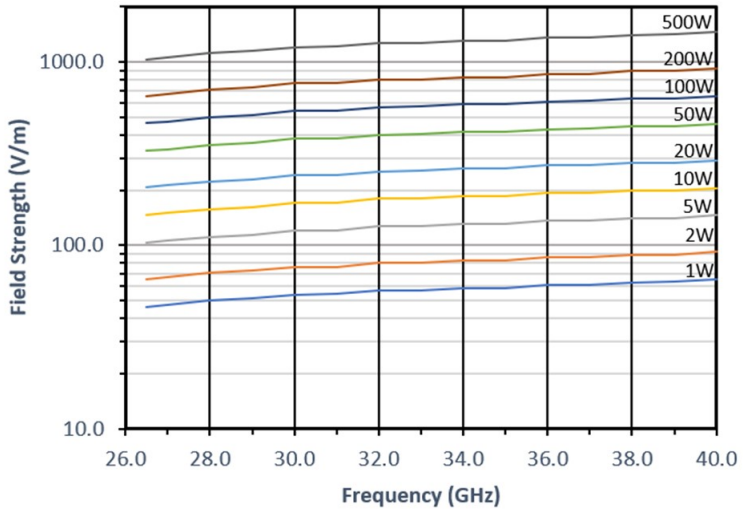
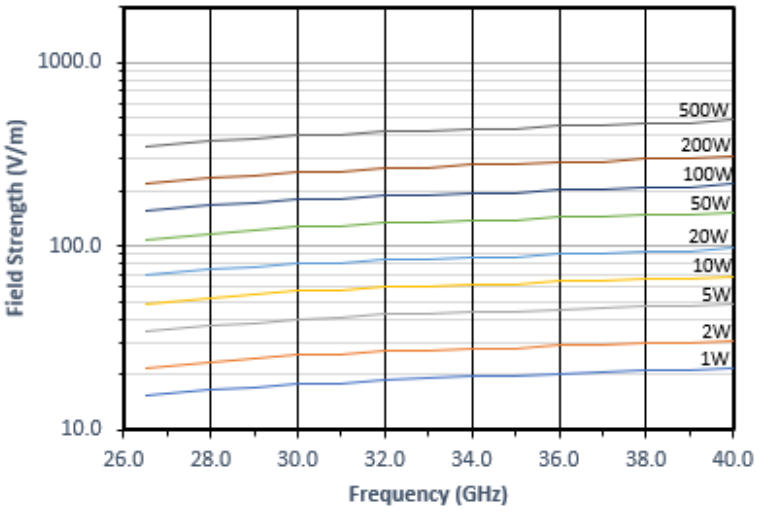
3dB BEAMWIDTH VS FREQUENCY



FIELD STRENGTH CALCULATED @ 1 METER



FIELD STRENGTH CALCULATED @ 3 METERS



Field strengths have been calculated for 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.