The Model ATH18G40 is a wide band, high gain, high power microwave horn antenna. With a minimum gain of 15.2dB over isotropic, the Model ATH18G40 supplies the high intensity fields necessary for RFI/EMI field testing within and beyond the confines of a shielded room. The Model ATH18G40 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 ATH18G40 provides the 18-40GHz response required for many often used test specifications.

The ATH18G40 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 model. Calibration details must be provided using Form 701. Contact factory for details.

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** .................................................... 18-40GHz
- **POWER INPUT (maximum)** ............................................ 450 watts CW
  - 2000 watts Peak
- **POWER GAIN (over isotropic)** ................................. See Graph
- **VSWR**
  - Maximum .............................................................. 1.5:1
  - Average .............................................................. 1.3:1
- **BEAM WIDTH (average)**
  - E Plane .............................................................. See Graph
  - H Plane .............................................................. See Graph
- **CONNECTOR** .............................................................. WRD 180 C24 waveguide
- **MOUNTING PROVISIONS** ............................................. Waveguide flange
- **WEIGHT (maximum)** ..................................................... 56.7 g (0.125 lbs)
- **SIZE (WxHxD)** ........................................................ 3.73 x 2.69 x 6.27 cm, (1.47 x 1.06 x 2.47 in)
ATH18G40 GAIN & 3dB BEAMWIDTH VS FREQ

ATH18G40 CALCULATED FIELD STRENGTH @ 1 METER

ATH18G40 CALCULATED FIELD STRENGTH @ 3 METERS