The Model ATH18G27 is a wide band, high gain, high power microwave horn antenna. With a minimum gain of 18.8 dB 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)
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.