



## ATH6G18

- High Gain Horn Antenna
- WRD-650 Waveguide Input
- 6 GHz–18 GHz

### Features

Model ATH6G18 is a wide-band, high-gain microwave horn antenna with WRD-650 double-ridged waveguide input. It operates down to 6.0 GHz, extending the conventional WRD-650 operating band. Model ATH6G18 is capable of handling high average and peak power levels and can generate extremely high field intensities. Model ATH6G18 is a compact, rugged and lightweight brazed aluminum assembly. It easily mounts to a tripod using the integral mounting bracket.

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:** 6.0–18.0 GHz

**AVERAGE POWER INPUT:** 3 kW maximum

**PEAK POWER INPUT:** Consult factory

**FAR FIELD GAIN (over isotropic):** 19–23 dBi  
(see curve)

**BEAM WIDTH (3 dB):**  
20°–8°, E-Plane (see curve)  
18°–13°, H-Plane (see curve)

**VSWR:**  
1.9 maximum, 6.5–18 GHz  
2.5 maximum, 6.0–6.5 GHz

**CONNECTOR:** WRD-650 D28 waveguide, cover flange, alternating thru/tapped hole pattern

**WEIGHT:** 1.07 kg (2.36 lbs)

**SIZE:** 17.7 x 12.7 x 30.8 cm (7 x 5 x 12.1 in)

**MOUNTING PROVISION:** Tripod mounting bracket with 1/4-20 tapped hole

**EXPORT CLASSIFICATION:** EAR99

AR RF/Microwave  
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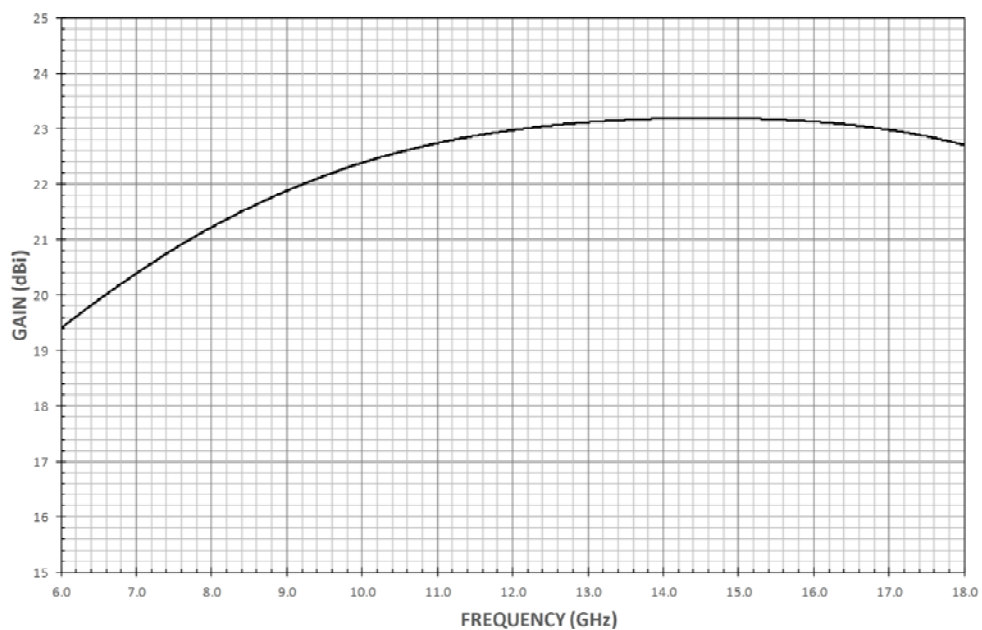
[www.arworld.us](http://www.arworld.us)



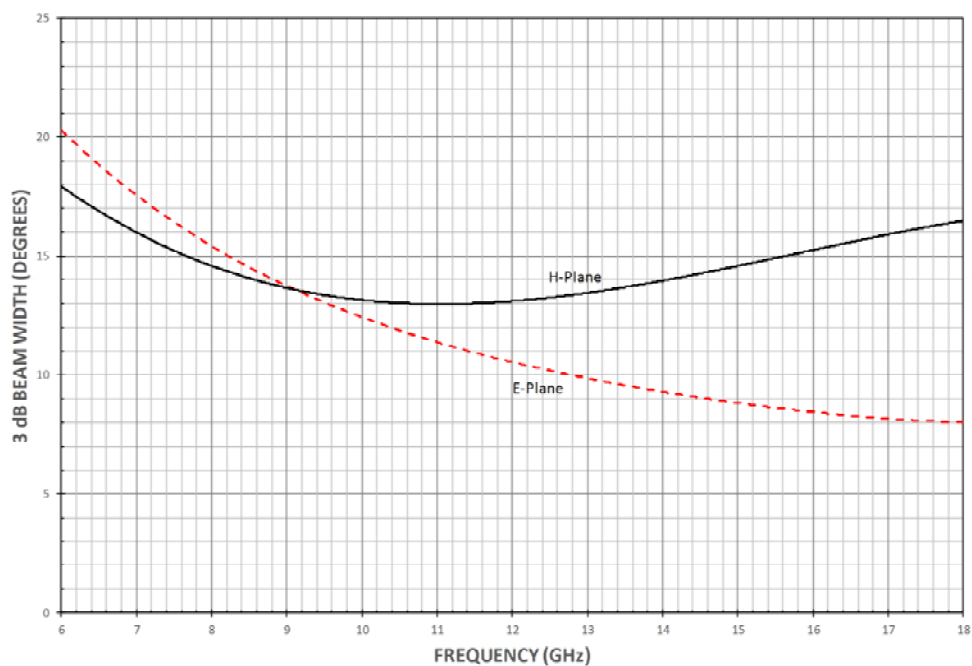
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COMPUTED FAR-FIELD GAIN ON BORESIGHT  
FULLY ANECHOIC ENVIRONMENT



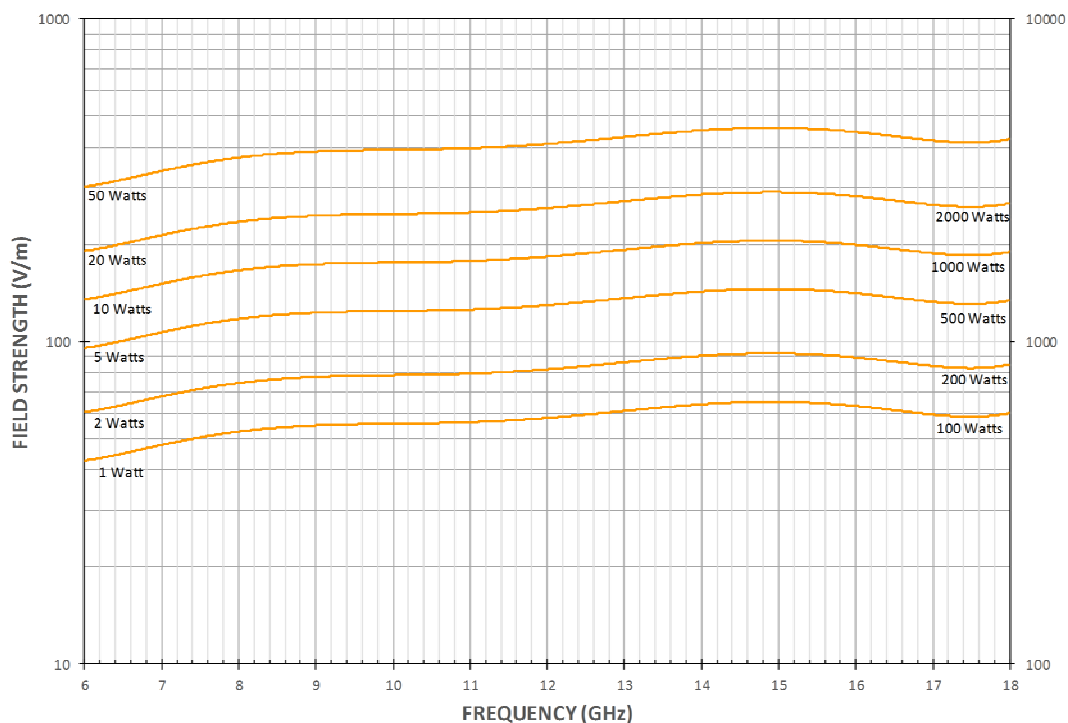
COMPUTED 3-dB BEAM WIDTH



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FIELD STRENGTH MEASURED AT 1 METER



FIELD STRENGTH MEASURED AT 3 METERS

