



The ANT-QHR Family of Quadridge Horn Antennas are high performance dual linear polarized antennas suitable for a wide variety of applications that require stable antenna performance over broad frequency bandwidths.

### FEATURES

- Rugged Design
- Low VSWR
- High Gain
- High Performance over Broad Frequency Bands
- Stable Radiation Patterns

### APPLICATIONS

- Source for Antenna Measurements
- Fast Gain Calibration of Broadband Systems (2-40 GHz)
- Wireless Applications from 600 MHz–6 GHz with a Single Antenna

## DESCRIPTION

The ANT-QHA Quadridge Horn Antenna Family is designed to operate over a multiple octave frequency range. The best in class radiation patterns remain consistent across the operating frequency band. The ruggedized and enclosed design makes this antenna ideal for applications that require a controlled antenna radiation pattern that limits spilling energy in unwanted directions (to the sides and back). Each model is also designed to maintain VSWR across the complete frequency bandwidth.

## STANDARD COMPONENTS

- Quadridge Horn Antenna
- User Manual

## AVAILABLE ADD-ONS

- Mounting Hardware
- Absorber

## GENERAL CHARACTERISTICS

Nominal VSWR	1.5 average (max <2.2)
Cross-Polarization Discrimination	>25 dB
Interport Isolation (Port-to-Port)	>28 dB
Operating Temperature Range	-40°C to 50°C
Interface Connector	SMA-F
Gain (Nominal)	see gain curve by model
Beamwidth (3 dB)	see beamwidth curve by model
Max Power	50 watts

## SPECIFICATIONS

Parameters	Units	ANT-QDH-600	ANT-QDH-2000	ANT-QDH-5000
Frequency Range Connector	GHz	0.6 to 6	2 to 18	5 to 15
Port-to-Port Isolation	dB	25	25	30
Cross-Polar Discrimination	dB	25	25	25
Peak Gain	dBi	13	20	20
VSWR		1:8 typical	3:1 peak	2.2:1 peak
Polarization		Dual Linear	Dual Linear	Dual Linear
Front to Back Ratio		30	30	35
Length	in. (cm)	14.5 (36.8)	13.0 (33.0)	12.0 (30.4)
Width	in. (cm)	14.0 (35.5)	6.0 (15.2)	5.4 (13.7)
Height	in. (cm)	14.0 (35.5)	6.0 (15.2)	5.4 (13.7)
Weight	lbs (kg)	16.5 (7.4)	4.5 (2.0)	4.0 (1.8)
Material		Aluminium	Aluminium	Aluminium
Interface Hole Pattern		Various Options	Various Options	Various Options