

IFF Antenna Model AA505 Air Traffic Control Antennas

Like our AA205, Antenna Associates' Model AA505 is a sum only IFF Antenna which Antenna produces outstanding electrical performance in a compact, lightweight adjustable package.

The AA505's benefits over the AA205 is its tuned elevation pattern. The AA505's performance has been optimized by directing its energy where it is needed most. The result is improved Gain and a significant reduction in problems associated with uncontrolled ground reflections.

The AA505 Antennas' size to performance ratio is excellent. Measuring 35 in. high, 20 in. wide, 6 in. deep and weighing only 6 lbs., it provides 13.7 dBi of Gain*.

The AA505 Antenna's construction insures rigidity, durability and excellent weather resistance in a lightweight package.



- Small, Lightweight, and adjustable
- 11 dBi Gain* Over Broad Coverage
- Captivated Hardware and Vertical Cable Connector for Easy Installation

*Gain measured at 1090 90° Aperture

Revision D



IFF Antenna Model AA505

Air Traffic Control Antennas

Technical Specifications

Electrical	
Frequency Band	1020 to 1100 MHz
Polarization	Vertical
Azimuth SLL	20.0dB
Azimuth BLL	24.0dB
Elevation B.W.	25°
VSWR	
1030 MHz	1.5 : 1.0
1090 MHz	1.5 : 1.0
Power Rating	400 W Peak, 5 W Avg.

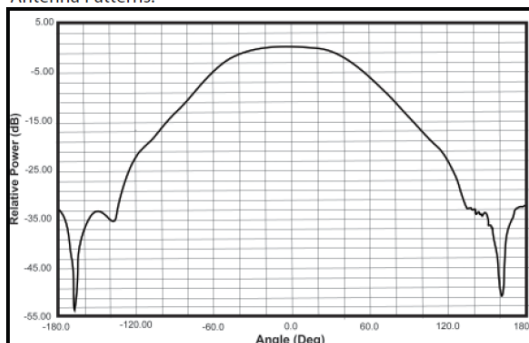
Environmental	
Temperature	+70° to -50° C
Wind Speed Resistance	100 mph (161 kph)
Mounting Configuration	
Pole Mount	2 Inch Diameter Pole Mount
RF Connector	Type N Female

Physical	
Weight	6 lbs. (2.72 kg) Max.
Height	35 in (88.90 cm) Max.
Length	20 in (50.80 cm)
Width	6 in (15.24 cm)
Finish	Polyurethane MIL-PRF-85285 per FED-STD-595
Color	12197 Orange

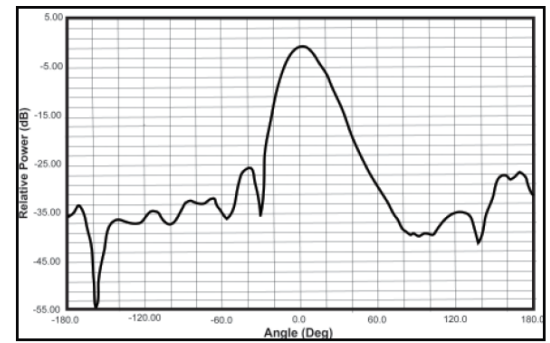
Aperture/Gain/Azimuth Beamwidth Characteristics

Aperture Angle (Deg.)	1030 MHz		1090 MHz	
	Gain	Azimuth Beamwidth (Deg.)	Gain	Azimuth Beamwidth (Deg.)
90°	13.4	54°	13.7	51°
120°	13.4	52°	13.7	52°
150°	12	68°	12.2	69°
180°	10.5	99°	11.9	103°
225°	9.5	119°	10.4	118°
270°	9.5	120°	10.4	120°

Antenna Patterns:



Azimuth Radiation Pattern



Elevation Radiation Pattern