



IFF Antenna Model AA205 Air Traffic Control Antennas

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

The AA205 Antenna's size to performance ratio is astounding. Measuring 17in. high, 20 in. wide (max.) 5 in. deep and weighing only 4 lbs. the AA205 provides an outstanding 11 dBi of Gain* over a broad elevation pattern. This means excellent coverage over a great distance.

The heart of the AA205 is its radiating column. It is comprised of high strength composite fiberglass vacuum sealed to a printed circuit board. This system hermetically seals the column from the elements while adding significant rigidity, durability and excellent weather resistance.



- 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 C



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Air Traffic Control Antennas

Technical Specifications

Electrical	
Frequency Band	1020 to 1100 MHz
Polarization	Vertical
Azimuth SLL	18.0dBi Min
Azimuth Bll	24.0dB Min
Elevation B.W.	47.5° Min
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
Mounting Configuration	
Pole Mount	2 Inch Diameter Pole Mount
RF Connector	Type N. Female

Physical	
Weight	4 lbs. (1.81 kg) Max.
Height	17.3 in (43.94 cm) Max.
Length	20 in (50.80 cm) Max. @180
Width	5.25 in (13.34 cm)
Finish	Polyurethane MIL-PRF-85285
Color	12197 Orange

**Aperture/Gain/Azimuth Beamwidth Characteristics
(Nominal)**

Aperture Angle (Deg.)	1030 MHz		1090 MHz	
	Gain	Azimuth Beamwidth (Deg.)	Gain	Azimuth Beamwidth (Deg.)
90°	10.5	52°	11.3	52°
120°	10.5	51°	11.3	51°
160°	9.7	65°	10.3	70°
180°	8.2	96°	8.8	101°
225°	7.5	117°	8.3	118°
270°	7.5	119°	8.3	119°

Antenna Patterns:

