



# ANTENNA EXPERTS

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Model # AC-112-400 112 – 400 MHz. 2 dBi Gain

## VHF/UHF Aviation Band Omni-Directional Antenna

**DESIGN FEATURES:** AC-112-400 Omni-directional VHF/UHF band antenna is rugged all weather model, uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and does not require any field tuning or adjustments. The compact size of omni-directional VHF/UHF band antenna allows easy handling, shipping. The antenna is highly suitable as Tx and Rx antenna with high efficiency, to meet the broadband requirement of a base station antenna such as spectrum monitoring or jamming application without having the requirement of multiple antennas. The antenna features high suppression of skin current which provides the smooth VSWR and constant gain over the entire 112-400MHz frequency band. The antenna when packed comes with ground radials removed from the antenna body for ease of packing and transportation. AC-112-400 covers the VHF/UHF civilian band, UHF/UHF aeronautical band and military aviation band.

**CONSTRUCTIONS:** The VHF/UHF band antenna is consisting of large diameter radiating elements, enclosed in ABS tube. The ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The mounting hardware and all fasteners are made of marine grade stainless steel. Large diameter vertical radiating element ensures the constant vertical beam-width of 78 degrees and 2dBi gain over the entire band. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	112 -400 MHz.
Gain	2.14 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR	2.5:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Antenna Base Hub Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	180 Km/Hr.
Overall Length	1.2 Meters
Shipping Length	1.3 Meters
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	ABS Tube
Gross Weight	6 Kgs.

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Photograph of antenna, Azimuth & Elevation radiation patterns and frequency Vs VSWR graph.

Note: All information contained in the datasheet is subject to change without any prior notice.