



ANTENNA EXPERTS

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Model # AC-112-156 112 – 156 MHz. 2 dBi Gain

VHF Aviation Band Omni-Directional Antenna

DESIGN FEATURES: AC-112-156 Omni-directional VHF aviation band antenna is rugged all weather model, enclosed in a ABS radome, 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 aviation band antenna allows easy handling, shipping and highly suitable for ATC sites 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 112-156 MHz frequency band. The N-Female termination of antenna is fixed at the bottom of the mounting pipe for complete weather protection.

CONSTRUCTIONS: The VHF aviation band antenna is consisting of large diameter radiating elements stacked vertically and enclosed in ABS radome. The special choke and spark gap technique is used for smooth VSWR and constant 2dBi. gain over the entire 112-156 MHz. frequency band. The ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The marine grade type 316 stainless steel mounting brackets are supplied with the antenna. 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 - 156 MHz.
Gain	2.15 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:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	1.5 Meters
Shipping Length	1.6 Meters
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Length	1200 mm
Gross Weight	10 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 Azimuth & Elevation radiation patterns and frequency Vs VSWR graph.

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