



ANTENNA EXPERTS

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Model # AC3-127

118 – 137 MHz.

3 dBi Gain

VHF Aviation Band Omni-Directional Antenna

DESIGN FEATURES: AC3-127 Omni-directional VHF aviation band antenna is rugged all weather model, radiator enclosed in a ABS radome, uses 6063T6 ultra corrosion resistant architectural 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 for ground-to-ground and ground-to-air communication without having the requirement of multiple antennas. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection. All elements are supplied in dismantle condition for easy of shipping and handling and antenna can be assembled in less than 2 minutes. The elements are attached via stainless steel stud systems at points along the antenna skirt hub.

CONSTRUCTIONS: The VHF aviation band antenna is consisting of large diameter radiating elements stacked vertically and enclosed in fiber glass tube. The special “Choke and Spark Gap” technique is used for smooth VSWR and constant 3 dBi. gain over the entire 117.975-137 MHz. frequency band. Large diameter vertical radiating element ensures the constant vertical beam-width of 76 degrees over the entire band. The fiberglass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. All exposed metallic parts are supplied with powder coating finish to protect the ATC antenna further from sever environmental condition. The marine grade stainless steel mounting brackets is supplied with the antenna.



ELECTRICAL SPECIFICATIONS:

Frequency Range	117.975 - 137 MHz.
Gain	3 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	76 Degrees
VSWR	1.5:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	Brass & Aluminum
Mounting Hardware -Materials	Stainless Steel
Wind Rating	220 Km/Hr.
Overall Length	1.3 Meters (51 Inches)
Shipping Length	0.9 Meter (36 Inches)
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Maximum Width at Radial Bottom	0.46 Meter (18 Inches)
Enclosure Materials	Fiberglass Tube
Gross Weight	5 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.