



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

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 fiberglass radome, uses high class brass and aluminum alloy and does not require any field tuning or adjustments. The compact size (0.9 Meter shipping length) of omni-directional VHF aviation band antenna allows easy handling, shipping and highly suitable for ATC sites without having the requirement of multiple antennas. Antenna termination and feed cable lie enclosed inside 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 fiber glass tube. The special “Choke and Spark Gap” technique is used for smooth VSWR and constant 3dBi. gain over the entire 117.975-137 MHz. frequency band. The fiberglass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The stainless steel mounting brackets and bird resistant cap 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	1:1.5
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

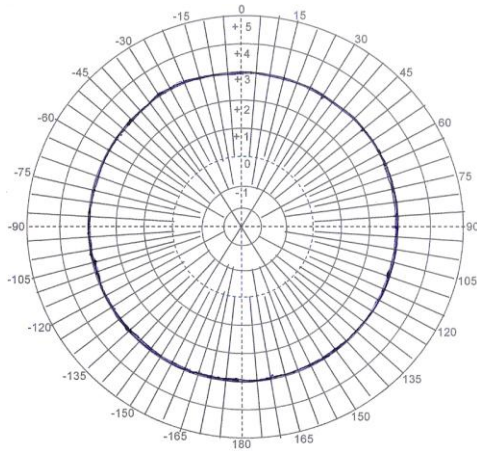
MECHANICAL SPECIFICATIONS:

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
Enclosure Diameter	55 mm
Net Weight	3.5 Kgs.
Gross Weight	4.5 Kgs.

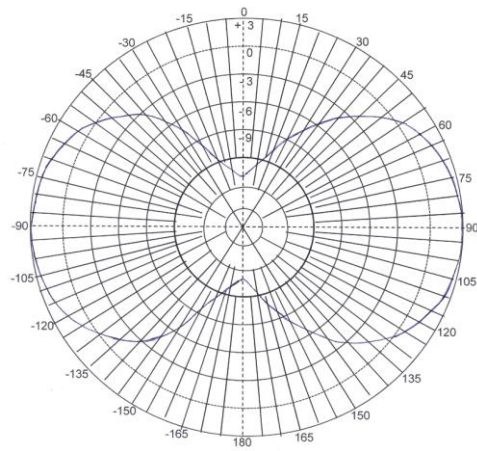
ENVIRONMENTAL SPECIFICATIONS:

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

Radiation Patterns VHF Aviation Band Omni-Directional Antenna Model # AC3-127

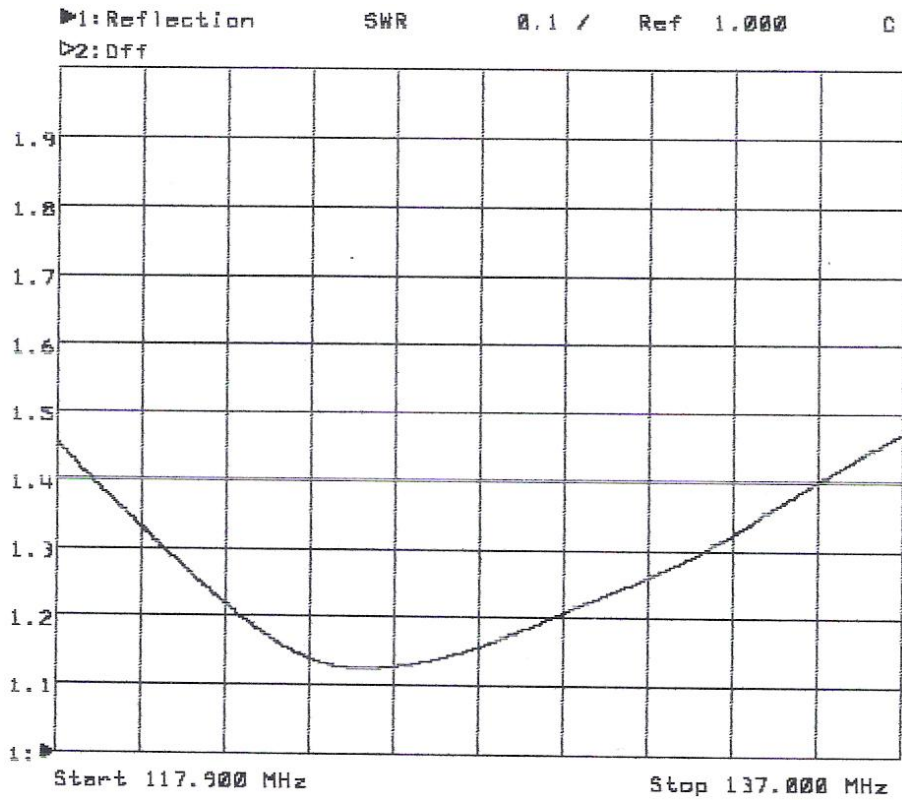


AZIMUTH RADIATION PATTERN



ELEVATION RADIATION PATTERN

VSWR-FREQUENCY GRAPH



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