



ANTENNA EXPERTS

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

Model # AC-118-137 118 –137 MHz. 2.15 dBi Gain

VHF Aviation Band Omni-Directional Antenna

DESIGN FEATURES: AC-118-137 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. The complete antenna is sealed inside the ABS enclosure to protect the antenna further from severe environmental condition. Also the antenna is supplied complete in assembled condition to save the assembly time.

CONSTRUCTIONS: The VHF omni-directional aviation band antenna is consisting of large diameter radiating elements, enclosed in ABS tube. The special impedance matching technique is used for smooth VSWR and constant 2dBi. gain over the entire 118-137 MHz. frequency band. Large diameter vertical radiating element ensures the constant vertical beam-width of 80 degrees over the entire band. The ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The marine grade stainless steel mounting brackets and fasteners are supplied with the antenna.



ELECTRICAL SPECIFICATIONS:

Frequency Range	117.9 -137 MHz.
Gain	2.15 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	80 Degrees
VSWR - Better Than	2:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Antenna Radiating Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	1.75 Meters
Shipping Length	1.85 Meters
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	ABS Tube
Support Pipe Materials	6063T6 Aluminum Alloy
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 radiation patterns & VSWR curve.

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