ANTENNA EXPERTS

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Model # AC5-312 225 – 400 MHz. 5.15 dBi Gain

UHF Aviation Band High Gain Omni-Directional Antenna

DESIGN FEATURES: AC5-312 High Gain Omni-directional UHF aviation band antenna is rugged all weather model, enclosed in a ABS radome, uses high 6063T6 ultra corrosion resistant architectural aluminum alloy and does not require any field tuning or adjustments. The compact size (5 feet shipping length) of high gain omni-directional UHF 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. The N-Female termination of antenna is fixed at the bottom of 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.

CONSTRUCTIONS: The high gain UHF 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 5dBi. gain over the entire 225-400 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The high gain UHF aviation band antenna is supplied complete in assembled condition, nothing to attach to the antenna. The marine grade stainless steel mounting brackets are supplied with the high gain aviation antenna.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	225 - 400 MHz.
Gain	5.15 dBi. (3dBd)
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	36 Degrees
VSWR – Better than	2:1
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
Net Weight	6 Kgs.
Gross Weight	7 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 detailed specification & 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.