



ANTENNA EXPERTS

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Model # ACHP-118-400

118 – 400 MHz.

2 dBi Gain

VHF/UHF Aviation Band High Power Omni-Directional Antenna

DESIGN FEATURES: ACHP-118-400 Omni-directional VHF/UHF aviation band antenna is rugged all weather model, high power handling capacity, 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/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. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection. All exposed metallic parts are supplied with powder coating finish to protect the antenna further from severe environmental condition. 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/UHF high power aviation band antenna is consisting of large diameter radiating elements, enclosed in ABS tube. The special “Choke and Spark Gap” technique is used for smooth VSWR and constant 2dBi. gain over the entire 118-400 MHz. frequency band. Large diameter vertical radiating element ensures the constant vertical beam-width of 76 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	118 -400 MHz.
Gain	2 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	76 Degrees
VSWR – Better Than	2.0:1
Average RF Power Handling Capacity	1 KW
PEP RF Power Handling Capacity	5 KW
Input Termination	DIN-Female

MECHANICAL SPECIFICATIONS:

Antenna Base Hub Materials	Powder Coated Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	1.2 Meters
Shipping Length	1.3 Meter
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	ABS Tube
Radiating Element Materials	6063T6 Powder Coated Aluminum
Support Pipe Materials	6063T6 Powder Coated Aluminum
Gross Weight	5 Kgs.

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)40 to +70 Degrees Celsius
Storage Temperature	(-)45 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 & Image of antenna.

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