Fiber Glass Omnidirectional High Gain Collinear Antenna

AC6-450	406-512 MHz.	6 dBi. Gain

DESIGN FEATURES: AC6-450 Omni-directional Collinear Antenna is rugged all weather model uses high class brass and 6063T6 ultra corrosion resistant aluminum alloy and does not require any field tuning or adjustments. All junctions are fully welded to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized fiber glass radome to ensure survivability in the worst environments. The fiber glass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The antenna is supplied with olive green military colour. Other customized can also be supplied on request. The compact size of collinear antenna allows easy handling and shipping.

CONSTRUCTIONS: The AC6-450 is a center fed design which eliminates the distortion of the radiation pattern and ensures a true omni-directional horizontal pattern. The special stub matching is used for smooth VSWR and constant gain over the specified frequency band. The collinear antenna consists of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiberglass tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The stainless steel mounting hardware is supplied with the antenna.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	406 -512 MHz.
Gain	6 dBi.
Bandwidth	25 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	36 Degrees
VSWR – Better Than	1:1.5
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Mounting Hardware	Stainless Steel
Gross Weight	3 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.65 Meters
Shipping Length	1.7 Meters
Support Pipe O.D.	51 mm
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Outer Diameter	44 mm
Enclosure Length	1450 mm
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 & frequency Vs VSWR graph of antenna.

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