

## Fiber Glass Omnidirectional High Gain Collinear Antenna

AC6-350

300-400 MHz.

6 dBi. Gain

**DESIGN FEATURES:** AC6-350 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 AC6-350 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	300 - 400 MHz
Gain	6dBi.
Bandwidth	20 MHz.
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni Directional
Vertical Beam-width – Half Power Points	20 Degrees
VSWR – better than	1.5 : 1
RF Power Handling Capacity	150 Watts
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	3 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.35 Meters
Shipping Length	1.5 Meters
Support Pipe Outer Diameter	51 mm
Support Pipe Material	6063T6 Aluminum Alloy
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiber Glass
Enclosure Outer Diameter	44 mm
Enclosure Length	1050 mm
Radiating Elements - Materials	High Quality Brass

### 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.