

## Fiber Glass Omnidirectional High Gain Collinear Antenna

AC3-75

66-88 MHz.

3 dBi. Gain

**DESIGN FEATURES:** AC3-75 Fiberglass Omni-directional Collinear Antenna is VHF lower band, rugged all weather model uses high class brass and 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 radome to ensure survivability in the worst environments. The heavy duty fiberglass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The compact size of fiber glass collinear antenna allows easy handling and shipping. The antenna is supplied with olive green military color. Other customized color can also be supplied on request.

**CONSTRUCTIONS:** The AC3-75 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 fiber glass tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The marine grade stainless steel mounting hardware is supplied with the antenna.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	66 - 88 MHz.
Gain	3 dBi.
Bandwidth	2.5 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	72 Degrees
VSWR – Better Than	1.5:1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	3 Meters
Shipping Length	3.1 Meters
Support Pipe Outer Diameter	51 mm
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm
Enclosure Length	2000 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 of the antenna.

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