

## Fiber Glass Omnidirectional High Gain Collinear Antenna

AC12-650

600-700 MHz.

10dBd. (12 dBi) Gain

**DESIGN FEATURES:** AC12-650 Fiberglass Omni-directional Collinear Antenna is rugged all weather model 6063T6 ultra corrosion resistant architectural aluminum, high class brass 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 color can also be supplied on request. The compact size of collinear antenna allows easy handling and shipping.

**CONSTRUCTIONS:** The AC12-650 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 12dBi gain over the specified frequency band. The collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The mounting hardware is made of type 316 marine grade stainless steel and supplied with the antenna. AC12-650 high gain fiber glass collinear antenna is suitable for mounting on the top of tower and is supplied with mounting hardware.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	600 - 700 MHz.
Gain	10dBd. (12 dBi)
Bandwidth	40 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	7 Degrees
VSWR – Better Than	1:1.5
RF Power Handling Capacity	150 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Net Weight	8 Kgs.
Gross Weight with Mounting Hardware	20 Kgs
Wind Rating	200 Km/Hr.
Overall Length	5.0 Meters
Shipping Length	2.6 Meters
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm
Enclosure Length	4400 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.