



ANTENNA EXPERTS

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Model # AC7-156-162 156 – 162 MHz. 7.5 dBi Gain

Marine Band High Gain Fiber Glass Omni-directional Collinear Antenna

DESIGN FEATURES: AC7-156-162 VHF Marine Band Fiberglass Omni-directional Collinear Antenna is rugged all weather model uses high class brass and 6063T6 ultra corrosion resistant architectural aluminum alloy and does not require any field tuning or adjustments. The antenna is supplied in two segments for easy of handling and shipping. The upper and lower portion of antenna is threaded together to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The antenna termination is enclosed at bottom of the antenna for complete weather protection. Antenna Experts yagi antennas are highly suitable for GMDSS communication equipments used to increase maritime safety and make it easier to rescue distressed ships, boats and aircraft.

CONSTRUCTIONS: The AC7-156-162 is a center fed design which eliminates the distortion of the radiation pattern and ensures nearly 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 antennas consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The marine band fiber glass collinear antenna is suitable for side mounting on the tower and is supplied with marine grade type 316 stainless steel mounting hardware.



ELECTRICAL SPECIFICATIONS:

Frequency Range	156 -162 MHz.
Gain	7.5 dBi.
Bandwidth	6 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	28 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
Net Weight	6 Kgs.
Gross Weight with Mounting Hardware	8 Kgs
Wind Rating	170 Km/Hr.
Overall Length	4.3 Meters
Shipping Length	2.2 Meters
Support Pipe Materials	6063T6 Aluminum Alloy
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm
Enclosure Length	3850 mm

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 100% RH