



ANTENNA EXPERTS

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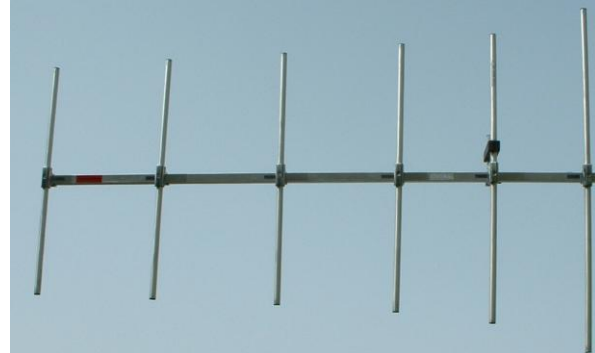
Model # AY-156-162

156 – 162 MHz.

12 dBi. Gain

VHF Marine Band Yagi Antenna

DESIGN FEATURES: Antenna Experts Marine Band Yagi antenna design reflects innovative modern antenna construction. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the yagi antenna. The mounting hardware supplied facilitates mounting on either vertical or horizontal members. The yagi antenna when packed comes with elements removed from the antenna boom for ease of packing and transportation. This yagi antenna can be assembled at site with simple hand-tools. The antenna can be supplied with center mounting or rear end mounting as per customer choice. 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: Radiating elements, supporting booms and adjoining metal castings of marine band yagi antenna have been constructed in high quality 6063T6 ultra corrosion resistant architectural aluminum alloys to prevent corrosion. The yagi antenna uses special feed which eliminates the use of folded dipole. The Yagi antenna is supplied with N termination fixed on the driven element. The antenna is supplied with powder coating finish to protect against severe environmental conditions. This directional yagi antenna comes factory tuned and does not require any field adjustment.

ELECTRICAL SPECIFICATIONS:

Frequency Range	156 - 162 MHz.
Gain	12 dBi.
Bandwidth	6 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points.	48 Degrees
Vertical Beam-width –Half Power Points.	40 Degrees
Front to Back Ratio	16 dB.
VSWR	1.5:1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Weight	4.0 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	2.1 Meters.
Shipping Length	2.2 Meters.
Support Boom-Materials -Cross Section-Outer Diameter.	Aluminum-Square Tube -25.4mm
Elements-Materials-Cross Section-Outer Diameter.	Aluminum-Round Tube-19mm
Maximum Mount Pipe Diameter	52mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

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

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