



# ANTENNA EXPERTS

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Model # MC3-160

156 – 162MHz

3 dBi. Gain

## MARINE BAND OMNI-DIRECTIONAL COLLINEAR ANTENNA

**DESIGN FEATURES:** The MC3-160 VHF marine band omni-directional Collinear Antenna is 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 ABS radome to ensure survivability in the worst environments. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The compact size of collinear antenna allows easy handling and shipping.



**CONSTRUCTIONS:** The MC3-160 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 consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in ABS 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	156 - 162 MHz
Gain	3 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni Directional
Vertical Beam-width – Half Power Points	76 Degrees
VSWR	1.5 : 1
RF Power Handling Capacity	250 Watts
Input Termination	N-Female

### **MECHANICAL SPECIFICATIONS:**

Mounting Hardware	Stainless Steel
Gross Weight	3.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.45 Meters
Shipping Length	1.55 Meters
Support Pipe Outer Diameter	38 mm
Support Pipe Material	Aluminum
Maximum Mount Pipe Diameter	45 mm (1.75 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Outer Diameter	33 mm
Enclosure Length	950 mm
Radiating Elements - Materials	Brass

### **ENVIRONMENTAL SPECIFICATIONS:**

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

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