



ANTENNA EXPERTS

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Model # FMC6-98

88 – 108 MHz.

6 dBi Gain

FM Band High Gain Omnidirectional Fiberglass Collinear Antenna

DESIGN FEATURES: FMC6-98 FM band 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. 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 condition. The fiber glass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The antenna termination is enclosed at bottom of the antenna for complete weather protection.

CONSTRUCTIONS: The FMC6-98 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 6dBi 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. The antenna is highly suitable for small power community broadcast application.

ELECTRICAL SPECIFICATIONS:

Frequency Range	88 - 108 MHz.
Gain	6 dBi.
Bandwidth	1.5 MHz
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omnidirectional
RF Power Handling Capacity	350 Watts
Vertical Beamwidth –Half Power Points	38 Degrees
VSWR – Better Than	1:1.5
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware -Materials	Marine Grade Stainless Steel
Weight Approx	7 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	4.6 Meters (@ Center Frequency
Shipping Length	2.6 Meters
Support Pipe Material	6063T6 Aluminum Alloy
Radiating Material	High Quality Brass
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure/Radome Material	Fiberglass
Enclosure/Radome Outer Diameter	45mm

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.