

VHF FIBER GLASS HIGH GAIN COLLINEAR ANTENNA

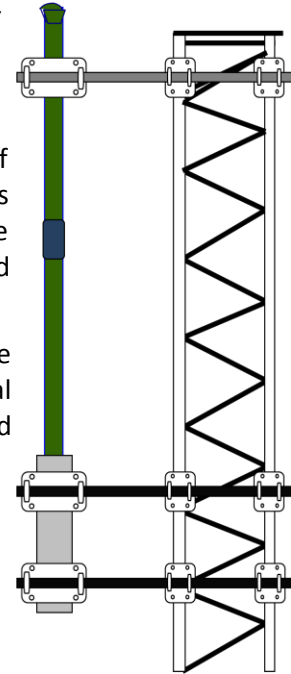
Model # AC9-150

136-174 MHz.

9 dBi. Gain

DESIGN FEATURES: AC9-150 VHF Fiberglass Omni-directional Collinear Antenna is rugged all weather model uses high class brass and 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.

CONSTRUCTIONS: The AC9-150 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. AC9-150 fiber glass collinear antenna is suitable for side mounting on the tower and is supplied with mounting hardware, including a non metallic 1.2 Meters (4 feet) long horizontal arm to hold the fiberglass omni-directional antenna at the top, on the side of tower.



ELECTRICAL SPECIFICATIONS:

Frequency Range	136 -174 MHz.
Gain	9 dBi.
Bandwidth	6 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	18 Degrees
VSWR – Better Than	1:1.5
RF Power Handling Capacity	150 Watts.
Input Termination	N-Female

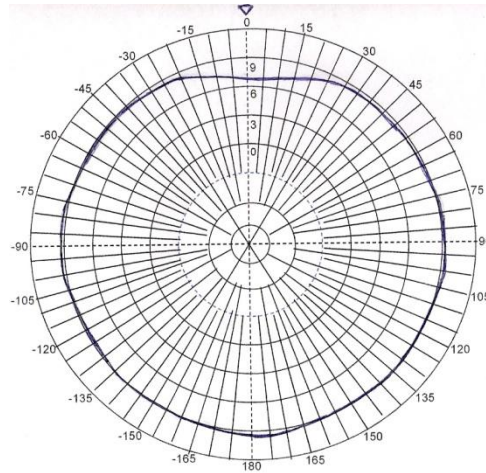
MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Net Weight	8 Kgs.
Gross Weight with Mounting Hardware	20 Kgs
Wind Rating	200 Km/Hr.
Overall Length	6.0 Meters
Shipping Length	3.2 Meters
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm
Enclosure Length	5400 mm

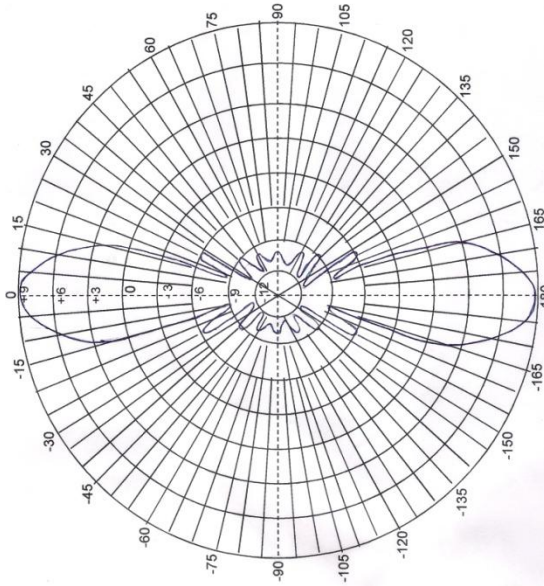
ENVIRONMENTAL SPECIFICATIONS:

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

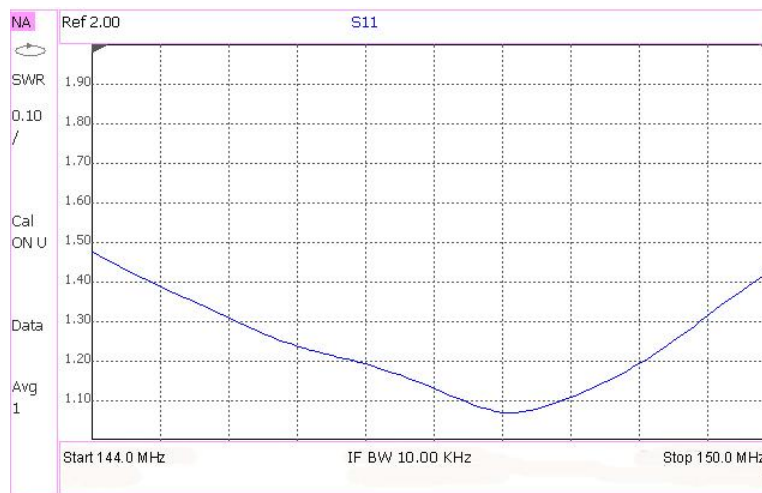
Radiation Patterns VHF Omni-Directional Fiberglass Collinear Antenna Model # AC9-150



AZIMUTH RADIATION PATTERN



ELEVATION RADIATION PATTERN



VSWR Vs FREQUENCY CHART

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