



ANTENNA EXPERTS

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Model # AC8-725HP 700 – 750 MHz. 8.5 dBi. Gain

HIGH POWER FIBER GLASS OMNI-DIRECTIONAL COLLINEAR ANTENNA

DESIGN FEATURES: AC8-725HP High Power Fiberglass 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. The antenna uses an air-cored transmission line instead of regular polyethylene and foam dielectric cables in order to handle the 1KW continuous power. All junctions are fully welded and clamped together to prevent RF inter-modulation and to withstand the specified power rating. The antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The compact size of fiber glass collinear antenna allows easy handling and shipping.

CONSTRUCTIONS: The AC8-725HP 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 UHF collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The marine grade stainless steel mounting hardware is supplied with the antenna.



ELECTRICAL SPECIFICATIONS:

Frequency Range	700 -750 MHz.
Gain	8.5 dBi. (6.35 dBd)
Bandwidth	50 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points	12 Degrees
VSWR – better than	1:1.5
RF Power Handling Capacity	1000 Watts.
Input Termination	DIN-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight with Mounting Hardware	5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.65 Meters (65 Inches)
Shipping Length	1.75 Meters (70 Inches)
Support Pipe Outer Diameter	51 mm
Support Pipe Materials	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	Fiberglass
Enclosure Outer Diameter	45 mm
Enclosure Length	1520 mm

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.