



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model # CD6-470-860 470 – 860 MHz. 6 dBi Gain

Omni-Directional High Gain Coaxial Dipole Antenna

DESIGN FEATURES: CD6-470-860 Omni-directional high gain coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome and does not require any field tuning or adjustments. The compact size of omni-directional coaxial dipole antenna allows easy handling, shipping and highly suitable for transmitting, receiving without having the requirement of multiple antennas. The N-Female termination of high gain coaxial dipole antenna is fixed at the bottom of the mounting pipe for complete weather protection. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance. Due to sturdy design the and wide bandwidth the coaxial dipole antenna is highly suitable for fixed station application, shipboard mounting and mobile application without having the requirement of multiple antenna.

CONSTRUCTIONS: The high gain omni directional coaxial dipole antenna is consisting of large diameter 6063T6 ultra corrosion resistant architectural aluminum alloy radiating elements stacked vertically and enclosed in ABS radome. The special center fed design technique is used for smooth VSWR and constant 6dBi. gain over the entire 470-860 MHz. frequency band. The ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The marine grade stainless steel mounting brackets are supplied with the high gain coaxial dipole antenna. The antenna is supplied with olive green military color.

ELECTRICAL SPECIFICATIONS:

Frequency Range	470 - 860 MHz.
Gain @ Center Frequency	6 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
-3 dB. Vertical Beam-width.	36 Degrees
VSWR – Better Than	2:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	950 mm
Shipping Length	1000 mm
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Length	750 mm
Net Weight	4 Kgs.
Gross Weight	5 Kgs.

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)40 to +70 Degrees Celsius
Storage Temperature	(-)45 to +80 Degrees Celsius
Humidity	0 to 95% RH



Please contact us for further information like Photograph, Azimuth & Elevation radiation patterns and frequency Vs VSWR graph.

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