



# ANTENNA EXPERTS

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Model # CD-470-860 470 – 860 MHz. 3 dBi Gain

## Multi Band Omni-Directional Coaxial Dipole Antenna

**DESIGN FEATURES:** CD-470-860 Omni-directional 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 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 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 “Choke and Spark Gap” technique is used for smooth VSWR and constant 3dBi. 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 coaxial dipole antenna. The antenna is supplied with olive green color.

### ELECTRICAL SPECIFICATIONS:

Frequency Range		470 - 860 MHz.	
Gain		3 dBi.	
Bandwidth		Entire Band	
Polarization		Vertical	
Input Impedance		50 Ohms	
Radiation Pattern		Omni-directional	
-3 dB. Vertical Beam-width		78 Degrees	
VSWR – Better Than		2:1	
RF Power Handling Capacity		500 Watts.	
Input Termination		N-Female	
<b>MECHANICAL SPECIFICATIONS:</b>			
Materials		6063T6 Aluminum Alloy	
Mounting Hardware -Materials		Marine Grade Stainless Steel	
Wind Rating		200 Km/Hr.	
Overall Length		0.40 Meter	
Shipping Length	0.45 Meter		
Maximum Mount Pipe Diameter	52 mm (2 Inches)		
Enclosure Materials	UV Resistant ABS		
Enclosure Length	300 mm		
Net Weight	2.5 Kgs.		
Gross Weight	3 Kgs.		
<b>ENVIRONMENTAL SPECIFICATIONS:</b>			
Operating Temperature	(-)30 to +70 Degrees Celsius		
Storage Temperature	(-)40 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.