



# ANTENNA EXPERTS

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Model # CD-135-470                      135 – 470 MHz.                      2.15 dBi Gain

## Omni-Directional Coaxial Dipole Antenna For Vehicular or Mast Mounting Application

**DESIGN FEATURES:** CD-135-470 coaxial dipole antenna is an omni-directional antenna for vertically polarized VHF UHF waves. CD-135-470 Omni-directional coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome, uses ultra corrosion resistant aluminum alloy 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 VHF/UHF ground-to-air, ground-to-mobile and mobile-to-mobile communication without having the requirement of multiple antennas. The coaxial dipole antenna features high suppression of skin current which provides the smooth VSWR over the 135-470MHz frequency band. 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 coaxial dipole antenna is highly suitable for fixed station application, shipboard mounting and mobile application. Customized mounting can be supplied on request.

**CONSTRUCTIONS:** The coaxial dipole antenna is consisting of round diameter radiating elements stacked vertically and enclosed in ABS radome. The special “Choke and Spark Gap” technique is used for constant superior performance over the entire 135-470 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The N-Female termination of antenna is fixed at the bottom of the mounting pipe for complete weather protection. The marine grade type 316 stainless steel mounting brackets are supplied with the coaxial dipole antenna. The antenna can be supplied with NATO 4 holes mounting flange for vehicular installation or standard mast mounting or customized.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	135 - 470 MHz.
Gain - Typical	2.15 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
-3 dB. Vertical Beam-width.	76 Degrees
VSWR – Better Than	2.5:1
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	1.0 Meter
Shipping Length	1.1 Meter
Mounting Type	NATO 4 Hole, Pole Mt, Customized
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	ABS
Net Weight	6 Kgs.
Gross Weight	7 Kgs.

### ENVIRONMENTAL SPECIFICATIONS:

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