



# ANTENNA EXPERTS

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Model CD-135-470      135 – 470 MHz.      2 dBi. Gain

## MULTI BAND COAXIAL DIPOLE ANTENNA

**Design Features:** CD-135-470 multi band coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome, uses high class 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 receiving, transmitting, scanning, monitoring and jamming applications without having the requirement of multiple antennas. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection.

**Constructions:** The multi band coaxial dipole antenna is consisting of large diameter radiating elements stacked vertically and enclosed in ABS radome. The special choke and spark gap technique is used for smooth VSWR and constant 2dBi. gain 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 stainless steel mounting hardware is supplied with the antenna. The mounting hardware is suitable to mount the antenna on 25 mm to 51 mm outer diameter vertical pipe.



### **ELECTRICAL SPECIFICATIONS:**

Frequency Range	135 - 470 MHz.
Gain	2 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-directional
Vertical Beam width – Half Power Points	78 Degrees
VSWR	1:2.5
RF Power Handling Capacity	500 Watts.
Input Termination	N-female

### **MECHANICAL SPECIFICATIONS:**

Mounting HW	Stainless Steel
Weight	7 Kgs.
Wind Rating	190 Km/Hr.
Overall Length	1.0 Meter.
Shipping Length	1.2 Meter.
Support Pipe Outer Diameter	38 mm
Support Pipe Material	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Outer Diameter.	160 mm
Enclosure Length	850 mm

### **ENVIRONMENTAL SPECIFICATIONS:**

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