



# ANTENNA EXPERTS

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Model CD-300-3000

300 - 3000 MHz.

2 to 0dBi. Gain

## MULTI BAND ANTENNA

**Design Features:** CD-300-3000 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 2 to 0dBi. gain over the entire 300-3000 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The antenna can be mounted on the vehicle roof top or standard pole mounting hardware can be supplied.

### **ELECTRICAL SPECIFICATIONS**

Frequency Range	300 - 3000 MHz.
Gain	2 to 0dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Beamwidth -3dB.	76 Degrees (Vertical)
VSWR	2.5:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

### **MECHANICAL SPECIFICATIONS**

Material	All Aluminum
Mounting Hardware	Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	0.6 Meter
Shipping Length	0.7 Meter
Support Pipe O.D.	38 mm (1.5 Inches)
Support Pipe Material	Aluminum
Radome Material	UV Resistant ABS
Radome O.D.	100 mm
Radome Length	600 mm
Gross Weight	5 Kgs.

### **ENVIRONMENTAL SPECIFICATIONS**

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