



# ANTENNA EXPERTS

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Model # CD-300-3000      300 – 3000 MHz.      2 to 0 dBi Gain

## Multi Band Omni-Directional Coaxial Dipole Antenna

**DESIGN FEATURES:** CD-300-3000 Omni-directional multi band coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome, uses 6063T6 ultra corrosion resistant architectural aluminum alloy and does not require any field tuning or adjustments. The compact size of omni-directional multiband band antenna allows easy handling, shipping and highly suitable for transmitting, receiving without having the requirement of multiple antennas. The N-Female termination of 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 coaxial dipole antenna is highly suitable for fixed station application, shipboard mounting and mobile application. Customized mounting can be supplied on request.

**CONSTRUCTIONS:** The multi band 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 smooth VSWR over the entire 300-3000 MHz. frequency band. The ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The marine grade type 316 stainless steel mounting brackets are supplied with the antenna. The antenna is supplied with olive green color.

### **ELECTRICAL SPECIFICATIONS:**

Frequency Range	300 - 3000 MHz.
Gain - Typical	2 to 0 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
-3dB Vertical Beam-width	78 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	700 mm
Shipping Length	800 mm
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	ABS
Net Weight	2.5 Kgs.
Gross Weight	3.5 Kgs.



### **ENVIRONMENTAL SPECIFICATIONS:**

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.