



# ANTENNA EXPERTS

E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model # CD-108-175      108 – 175 MHz.      2.15 dBi Gain

## Omni-Directional Aviation Coaxial Dipole Antenna

**DESIGN FEATURES:** CD-108-175 aviation dipole antenna is an omni-directional antenna for vertically polarized waves. CD-108-175 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 aviation dipole antenna allows easy handling, shipping and highly suitable for ATC sites without having the requirement of multiple antennas. The aviation dipole antenna features high suppression of skin current which provides the smooth VSWR over the 108-175MHz 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 aviation dipole antenna is highly suitable for fixed station application, shipboard mounting and mobile application.



**CONSTRUCTIONS:** The aviation 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 100-175 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 aero band dipole antenna.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	108 - 175 MHz.
Gain - Typical	2.15 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	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	1.5 Meters
Shipping Length	1.6 Meters
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

Please contact us for further information like Azimuth & Elevation radiation patterns and VSWR graph.

Note: All information contained in the datasheet is subject to change without any prior notice.