



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model # CD-225-400 225 – 400 MHz. 2.15 dBi Gain

Omni-Directional Coaxial Dipole UHF Aviation Band Antenna

DESIGN FEATURES: CD-225-400 UHF aero band coaxial dipole antenna is an omni-directional antenna for vertically polarized waves. CD-225-400 Omni-directional UHF aviation 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 ATC sites for ground-to-ground and ground-to-air 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 225-400MHz 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.

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 225-400 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.

ELECTRICAL SPECIFICATIONS:

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|-----------------------------|------------------|
| Frequency Range | 225 - 400 MHz. |
| Gain | 2.15 dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical |
| Input Impedance | 50 Ohms |
| Radiation Pattern | Omni-directional |
| -3 dB. Vertical Beam-width. | 80 Degrees |
| VSWR – Better Than | 2:1 |
| 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 | 0.85 Meter |
| Shipping Length | 0.90 Meter |
| Maximum Mount Pipe Diameter | 52 mm (2 Inches) |
| Enclosure Materials | ABS |
| Net Weight | 5 Kgs. |
| Gross Weight | 6 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.