



ANTENNA EXPERTS

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Model # CD-108-512 108 – 512 MHz. 2 dBi Gain

Omni-Directional Coaxial Dipole Antenna

DESIGN FEATURES: CD-108-512 coaxial dipole antenna is an omni-directional antenna for vertically polarized waves. CD-108-512 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 coaxial dipole antenna allows easy handling, shipping and highly suitable for ATC sites without having the requirement of multiple antennas. The coaxial dipole antenna features high suppression of skin current which provides the smooth VSWR over the 108-512MHz 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 108-512 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. The antenna is supplied with olive green color.

ELECTRICAL SPECIFICATIONS:

Frequency Range		108 - 512 MHz.	
Gain - Typical		2 dBi.	
Bandwidth		Entire Band	
Polarization		Vertical	
Input Impedance		50 Ohms	
Radiation Pattern		Omni-directional	
-3 dB. Vertical Beam-width.		76 Degrees	
VSWR		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		1.4 Meters	
Shipping Length		1.5 Meters	
Maximum Mount Pipe Diameter		52 mm (2 Inches)	
Enclosure Materials	ABS		
Net Weight	7 Kgs.		
Gross Weight	8 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.