



ANTENNA EXPERTS

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Model # WD-100-500 100 – 500 MHz. 2.15dBi Gain

WIDE BAND OMNI-DIRECTIONAL HEAVY DUTY DISCONE ANTENNA

DESIGN FEATURES: WD-100-500 wide band heavy duty fully welded discone antenna is specially designed to survive the most extreme conditions, where conventional antennas often fail. Due to its low VSWR through entire band from 100-500 MHz., this discone antenna can be used as a transmitting and receiving antenna with high efficiency, to meet the broadband requirement of a base station antenna such as spectrum monitoring or jamming application without need of multiple antennas. WD-100-500 wideband discone antenna is extremely rugged, fully welded at all junctions, all weather model, does not require any field tuning or adjustments. The wide vertical beam-width of discone antennas allows clear communication for ground, sea, and ground-to-air applications. The fully welded wide band discone antenna is highly suitable for Oceanic application especially in arctic region where vibration and ice loading are main concern.

CONSTRUCTIONS: The fully welded wide band discone antenna uses 6063T6 Mil grade ultra corrosion resistant architectural anodized aluminum alloy with powder coating finish to protect the antenna further from severe environmental condition. All internal junctions are enclosed within a ruggedized radome to ensure survivability in the worst environments. The powder coating on all metal surfaces ensures complete protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and sand storms in desert environments. Discone Antenna termination enclosed inside the mounting pipe for complete weather protection. All the screws, nuts and bolts of heavy duty wide band discone antenna are made of type 316 marine grade stainless steel.



ELECTRICAL SPECIFICATIONS:

Frequency Range	100 - 500 MHz.
Gain	Unity (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
Weight Approx	7.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.2 Meters
Shipping Length	1.25 Meters
Support Pipe Materials	Powder Coated Aluminum
Elements Materials	6063T6 Aluminum Alloy
Maximum Mount Pipe Diameter	52 mm (2 Inches)

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 frequency Vs VSWR graph.

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