



ANTENNA EXPERTS

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Model # AWD-300-500 300 – 500 MHz. Unity Gain

Wide Band Omni-directional Discone Antenna

DESIGN FEATURES: AWD-300-500 wide band discone antenna is specially designed for omni-directional coverage. Due to its low VSWR through entire band from 300-500 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. The wide band discone antenna when packed, comes with cone and disc elements removed from the antenna body for ease of packing and shipment.



CONSTRUCTIONS: AWD-300-500 wideband discone antenna is rugged all weather model, does not require any field tuning or adjustments. The compact size of discone antenna allows easy handling and specially designed mounting hardware results in fast installation. The cone and disc hubs of wide band discone antennas are made of high quality aluminum and all fasteners are of marine grade stainless steel. Discone Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection. The antenna is supplied with powder coating finish to protect it further from severe environmental conditions.

ELECTRICAL SPECIFICATIONS:

Frequency Range	300 - 500 MHz.
Gain	Unity (2.14 dBi.)
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	72 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	Stainless Steel
Weight Approx	3.5 Kgs.
Wind Rating	220 Km/Hr.
Overall Length	0.4 Meter
Shipping Length	0.5 Meter
Support Pipe Material	Powder Coated Aluminum
Insulator Materials	Teflon & Nylon
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.