

UHF Wide Band Omni-directional Discone Antenna

TECHNICAL DATA SHEET

APD - 100 - 500 - 2.15dBi

APD-100-500-2.15dBi wide band heavy duty fully welded discone antenna is specially designed to survive the most extreme conditions, where conventional antennas often fail. It is specially designed for omni-directional coverage and also designed to meet the broadband requirement of a base station antenna at ATC sites for ground to ground and ground to air communication application without having the requirement of multiple antennas.

Features:

- * Wide band omni-directional coverage.
- * Low VSWR
- * High efficiency
- * High Power handling
- * Wide Vertical Beam width

Applications:

- * Ground to Ground and Ground to Air Communication
- * Military and Radio scanner applications

Electrical Specifications:

Parameter	Specification
Frequency Range	100 - 500 MHz.
Gain	2.15 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
VSWR	2.5:1
Vertical Beam-width -Half Power Points.	78 Degrees
RF Power Handling Capacity	500 Watts
Input Termination	N-Female



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Mechanical Specifications:

Parameter	Specification
Discone Antenna Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Gross Weight (with mounting bracket)	5.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	0.9 Meter (35.5 Inches)
Shipping Length	1.2 Meter (48 Inches)
Support Pipe Material	Powder Coated Aluminum
Support Pipe - Diameter	51+/-0.5 mm with 2 mm Wall
Cone & Disk Elements Materials	Powder Coated Aluminum
Cone & Disk Elements - Diameter	12.7+/-0.5 mm with 3mm wall
Insulator Materials	Teflon & Delrin
Maximum Mount Pipe Diameter	32 mm to 52 mm (1.25 to 2")
Corrosive Treatment	Powder Coated Mil Green
Color / Finish	Olive Green

Environmental Conditions:

Operating Temperature	- 30 to +70 °C
Storage Temperature	- 40 to +80 °C
Humidity	0 to 95 % RH

*Note: All specifications may vary as per the requirements

