



# ANTENNA EXPERTS

E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model # AWD-30-1000

30 – 1000 MHz.

Unity Gain

## OMNI-DIRECTIONAL WIDE BAND DISCONE ANTENNA

**DESIGN FEATURES:** AWD-30-1000 wide band discone antenna use 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and specially designed for omni-directional coverage. Due to its low VSWR through entire band from 30-1000 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-30-1000 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 chromium plated brass and all fasteners are of stainless steel. Discone Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	30 - 1000 MHz.
Gain	2.15 dBi
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	72 Degrees
VSWR	<1:2.5
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

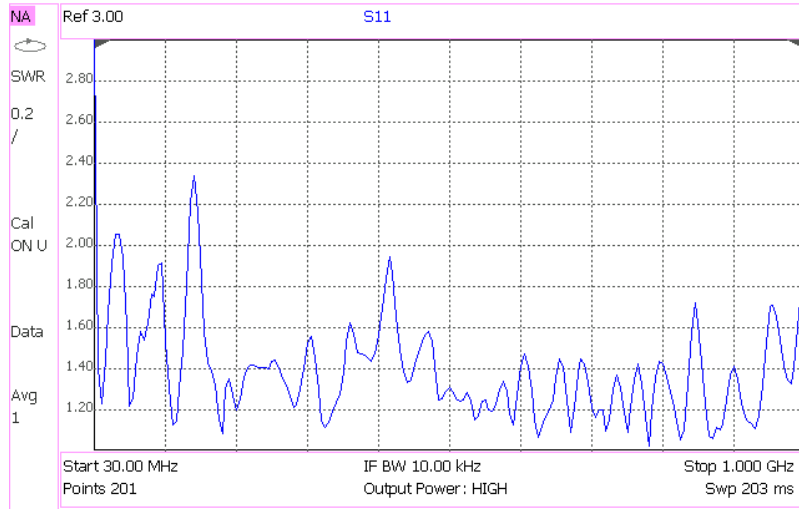
### MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum
Mounting Hardware -Materials	Marine Grade Stainless Steel
Weight Approx	25 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	3 Meters
Shipping Length	2.5 Meters
Support Pipe Material	Powder Coated MS
Insulator Material	Teflon & Nylon
Maximum Mount Pipe Diameter	52 mm (2 Inches)

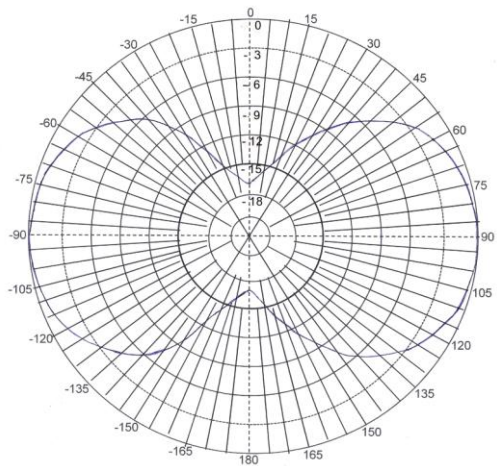
### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95 % RH

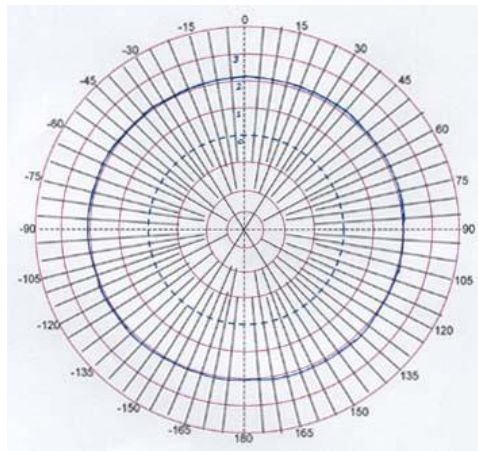
## FREQUENCY Vs VSWR CURVE OF WIDE BAND DISCONE ANTENNA MODEL AWD-30-1000



## Radiation Patterns Omni-Directional Wide Band Discone Antenna Model # AWD-20-1000



ELEVATION RADIATION PATTERN



AZIMUTH RADIATION PATTERN

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