



# ANTENNA EXPERTS

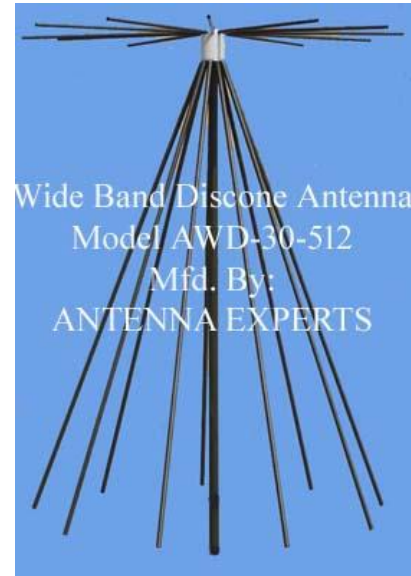
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Model # AWD-30-512                      30 – 512 MHz.                      2 dBi Gain

## Ultra Wide Band Omni-directional Discone Antenna

**DESIGN FEATURES:** AWD-30-512 wide band discone antenna uses 6063T6 ultra corrosion resistant architectural aluminum alloy and is specially designed for omni-directional coverage. Due to its low VSWR through entire band from 30-512 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-30-512 wideband omni 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 olive green powder coating finish to protect it further from severe environmental conditions. The antenna is also compatible with MIL STD 810G/F environmental standards.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	30 - 512 MHz.
Gain	2 dBi
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	360 Degrees (Omni)
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	250 Watts
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Materials	Powder Coated Aluminum
Mounting Hardware -Materials	Stainless Steel
Weight Approx	20 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	3 Meters
Shipping Length	2.5 Meters
Overall Width	1.8 Meters
Support Pipe Materials	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.