



# ANTENNA EXPERTS

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Model # AWD-66-512

66 – 512 MHz.

Unity Gain

## Wide Band Omnidirectional Discone Antenna

**DESIGN FEATURES:** AWD-66-512 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 66-512 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. The antenna is supplied with olive green powder coating finish to protect it further from severe environmental conditions.

**CONSTRUCTIONS:** AWD-66-512 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 alloy and all fasteners are of type 316 marine grade stainless steel. Discone Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection. The antenna is also compatible with MIL-STD 810G/F environmental standards.



### ELECTRICAL SPECIFICATIONS:

|   |                   |
|---|-------------------|
| Frequency Range                         | 66 - 512 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:

|                                       |                              |
|---------------------------------------|------------------------------|
| Elements, Cone and Disc Hub Materials | 6063T6 Aluminum Alloy        |
| Mounting Hardware -Materials          | Marine Grade Stainless Steel |
| Weight Approx                         | 7 Kgs.                       |
| Wind Rating                           | 200 Km/Hr.                   |
| Overall Length                        | 1.4 Meters                   |
| Shipping Length                       | 1.2 Meters                   |
| Support Pipe Material                 | Powder Coated Aluminum       |
| 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                 |

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.