



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:

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|------------------------------|------------------------|
| 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.