



ANTENNA EXPERTS

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Model # AWD-1117

1100 – 1700 MHz.

2.15 dBi. Gain

WIDE BAND OMNI-DIRECTIONAL DISCONE ANTENNA

DESIGN FEATURES: AWD-1117 wide band discone antenna is specially designed for omni-directional coverage. Due to its low VSWR through entire band from 1100-1700 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 compact size of discone antenna allows easy handling and specially designed mounting hardware results in fast installation. The discone antenna is supplied complete in assembled condition. This discone antenna is designed to mount on the vertical pole having diameter between 25-52mm with supplied mounting hardware. The antenna is also suitable for man-pack application if used with N-Male to N-Male adaptor.

CONSTRUCTIONS: The AWD-1117 Wide Band Discone Antenna is rugged all weather model, enclosed in a ABS radome, uses all brass elements and does not require any field tuning or adjustments. The AWD-1117 wide band discone antenna consists of aluminum radiating elements and enclosed in fiber glass housing. The ABS has excellent transparency for Radio Signal and mechanically Robust to support extra mechanical strength to the discone antenna. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance. The mounting hardware is made of marine grade stainless steel.



ELECTRICAL SPECIFICATIONS:

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|--|------------------|
| Frequency Range | 1100 - 1700 MHz. |
| Gain | 2.15 dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Omnidirectional |
| Vertical Beam-width -Half Power Points | 78 Degrees |
| VSWR – better than | 2.5:1 |
| RF Power Handling Capacity | 500 Watts. |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

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|--------------------------------|----------------------------|
| Wind Rating | 180 Km/Hr. |
| Mounting Type | Suitable for Vertical Pole |
| Antenna Length | 150 mm |
| Mounting Pole Length | 180 mm |
| Shipping Length | 200 mm |
| Support Pipe Materials | 6063T6 Aluminum |
| Insulator Materials | Teflon & Nylon |
| Enclosure Materials | ABS |
| Enclosure Outer Diameters | 63 mm |
| Radiating Elements - Materials | All Aluminum |
| Gross Weight – Less Than | 1.0 Kg. |

ENVIRONMENTAL SPECIFICATIONS:

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|-----------------------|-------------------------------|
| Operating Temperature | (-) 30 to +85 Degrees Celsius |
| Storage Temperature | (-) 40 to +85 Degrees Celsius |
| Humidity | 0 to 95 % RH |

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