



ANTENNA EXPERTS

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Model # AWD-20-100

20 – 100 MHz.

2.14dBi Gain

WIDE BAND DISCONE ANTENNA

DESIGN FEATURES: AWD-20-100 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 20-100 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-20-100 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 type 316 marine grade stainless steel. Discone Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection.



ELECTRICAL SPECIFICATIONS:

Frequency Range	20 - 100 MHz.
Gain	2.14 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	76 Degrees
VSWR	<1:2.5
RF Power Handling Capacity	800 Watts
Input Termination	N-Female

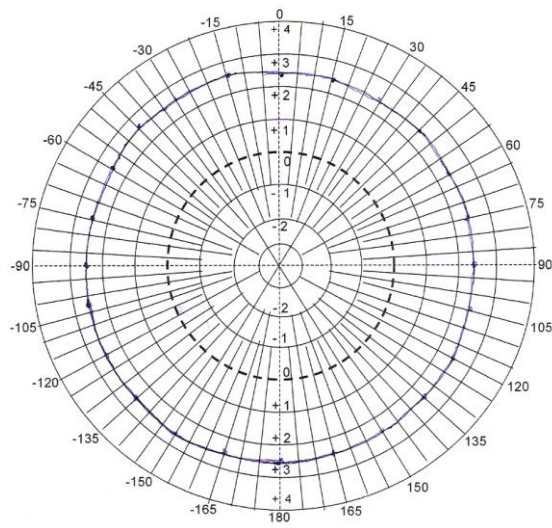
MECHANICAL SPECIFICATIONS:

Materials	Aluminum
Mounting Hardware -Materials	Stainless Steel
Weight Approx	30 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	3.9 Meters
Shipping Length	2.0 Meters
Overall Width	2.7 Meters
Support Pipe Materials	Stainless Steel
Insulator Materials	Teflon & Nylon
Maximum Mount Pipe Diameter	52 mm (2 Inches)

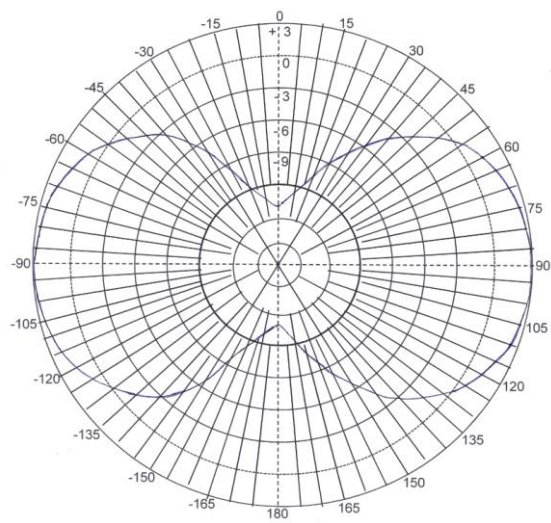
ENVIRONMENTAL SPECIFICATIONS:

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

Radiation Patterns Wide Band Discone Antenna Model # AWD-20-100



AZIMUTH RADIATION PATTERN



ELEVATION RADIATION PATTERN

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