



**Part Number** AE-WD75-3000  
**Description** Ruggedized Wide Band Omni Discone Antenna 75-3000 MHz

**Feature**

The AE-WD75-3000 is wide band heavy duty welded discone antenna is specially designed to survive extreme environmental conditions. Its low VSWR through the entire 75-3000 MHz band makes this discone antenna suitable as a high efficiency transmitting and receiving antenna.

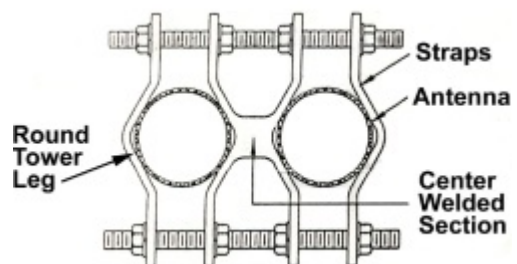
This antennas superior performance meets the broadband requirement of a base station antenna for spectrum monitoring or jamming applications without the need of multiple antennas.

The AE-WD75-3000 wide band discone antenna is fully welded at all junctions, ruggedized suitable for oceanic applications especially in arctic regions where vibration & ice loading are main concerns.

This discone does not require any field tuning or adjustment. The wide vertical beam-width of this discone antenna allows for clear communication for ground, sea or ground – to-air applications.

**Construction**

The fully welded discone antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy with powder coating finish to protect the antenna further from severe environmental conditions. The powder coating on all metal surfaces ensures complete protection from corrosive gases, ultraviolet radiation, salt spray, acid rain & sand storms in desert environments. The discone antennas termination is enclosed inside the mounting tube for complete weather protection. All screws, nuts and bolts are made of type 316 marine grade stainless steel.



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## Product Data

<b>Part Number</b>	<b>AE-WD75-3000</b>
<b>Description</b>	<b>Ruggedized Wide Band Omni Direction Discone Antenna</b>

### ELECTRICAL SPECIFICATIONS:

Frequency Range	75-3000 MHz.
Gain	Unity (2.15 dBi.)
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
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:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Weight Approx	7.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.4 meters
Shipping Length	1.45 meters
Support Pipe Materials	Powder Coated Aluminum
Elements Materials	6063T6 Aluminum Alloy
Maximum Mount Pipe Diameter	52 mm (2 Inches)

### ENVIRONMENTAL SPECIFICATIONS:

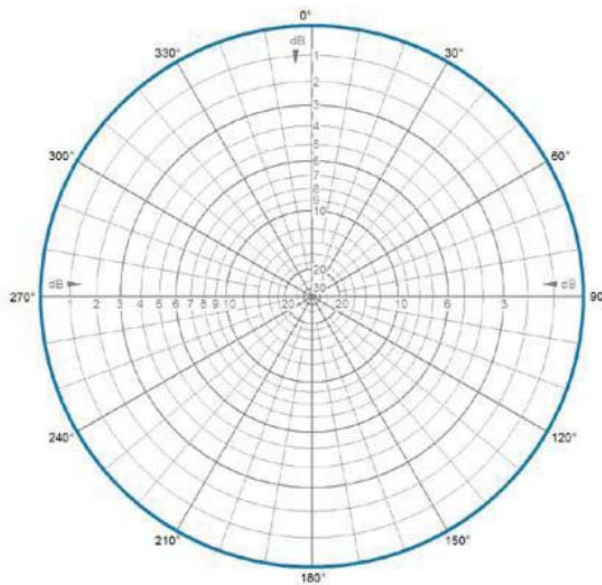
Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95 % RH

All information contained in this datasheet is subject to change without prior notice.

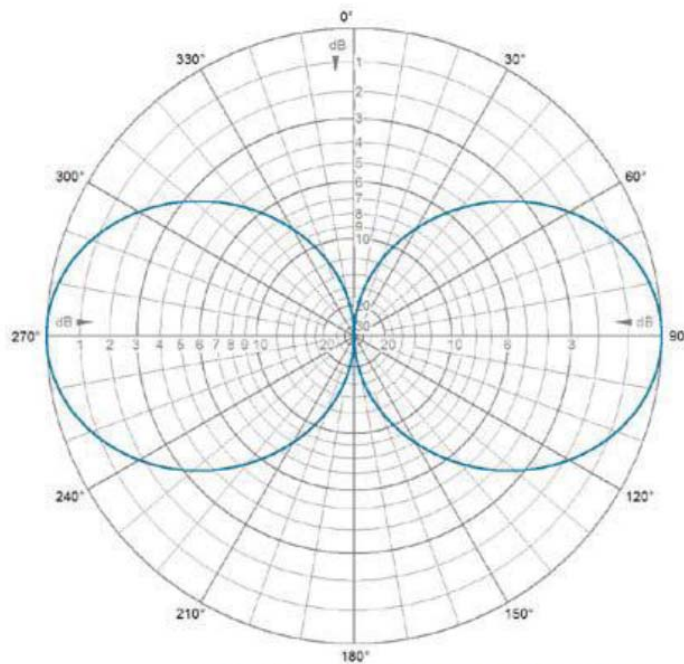
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# Product Data

**Radiation patterns for  
Omni-Directional Ruggedized, Fully Welded Wide Band Discone Antenna  
Part No : AE-WD75-3000**



**AZIMUTH RADIATION PATTERN**

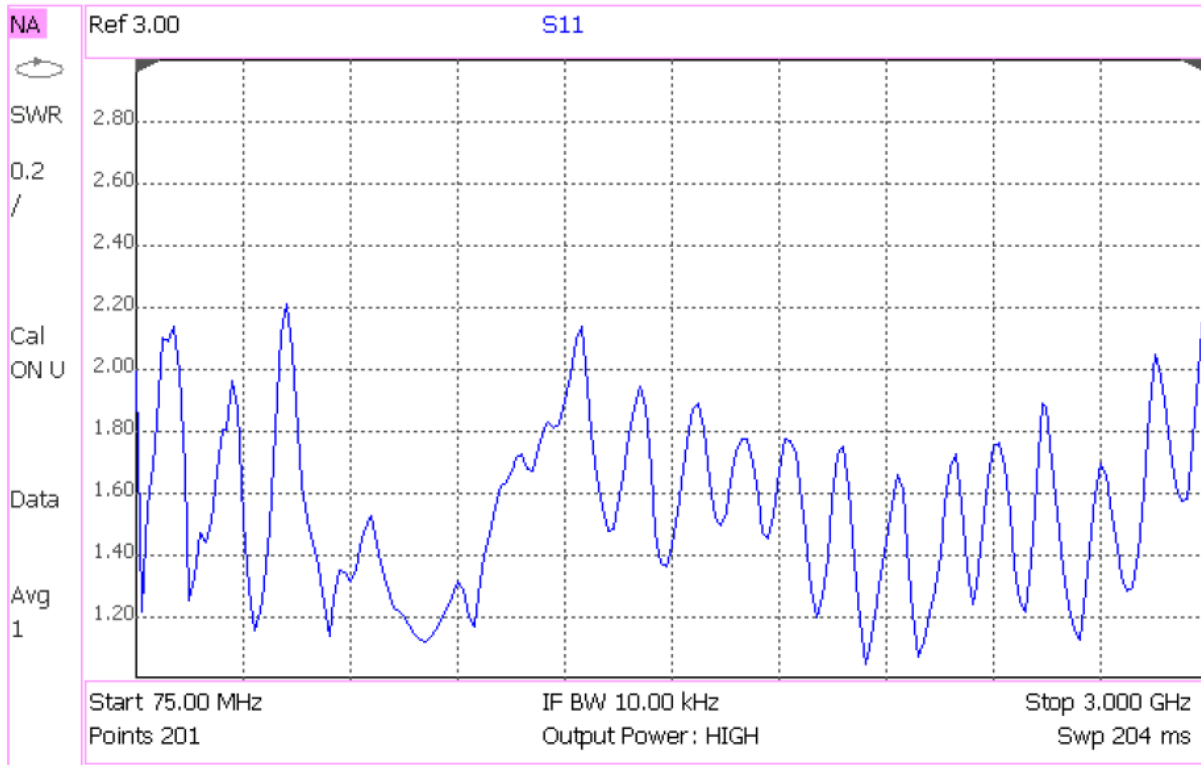


**ELEVATION RADIATION PATTERN**

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## Product Data

### Frequency Vs VSWR Plot for Omni-Directional Ruggedized, Fully Welded Wide Band Discone Antenna Part No : AE-WD75-3000



### FREQUENCY vs VSWR CURVE

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