WDI55-N

155-175 MHz Base Station Dipole Antenna

DESCRIPTION

Base station antenna conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in vertical stacked array. **Patent pending applied**.

TECHNICAL DATA

Electrical Data

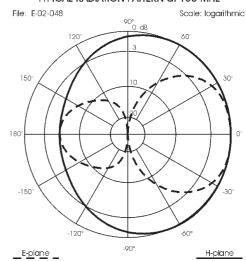
Туре	Half wave Dipole	
Frequency range	e 155 - 175 MHz	
Impedance	50 Ω Unbalanced	
Polarization	Linear Vertical	
Radiation (H-plane)	beamwidth at -3 dB= 245° at 165 MHz	
Radiation (E-plane)	beamwidth at -3 dB= 85° at 165 MHz	
Max Gain	4 dBi	
Front to Back ratio	≥ 5 dB	
S.W.R. in bandwidth	≤ 1.5:1	
Max Power	200 Watts (CW) at 30°C	
Feed system / Position	RG303 Teflon coax with balun / inside boom	
Lightning protection	DC-ground	
Connector	N-female with rubber protection cap	

Mechanical Data

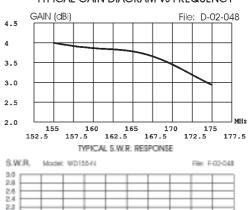
Materials	Anodized 6063-T5 Aluminium,	
	Thermoplastic UV stabilized, Chromed Brass	
Wind load / resistance	75 N at 150 Km/h / 200 Km/h	
Wind surface	nd surface 0.057 m ²	
Dimensions (approx.)	730 x 835 mm	
Weigth (approx.)	1340 gr	
Turning radius	600 mm	
Operating temperature	-40° C to +60° C	
Mounting Mast	Ø 35-52 mm	



TYPICAL RADIATION PATTERN at 165 MHz



TYPICAL GAIN DIAGRAM vs FREQUENCY

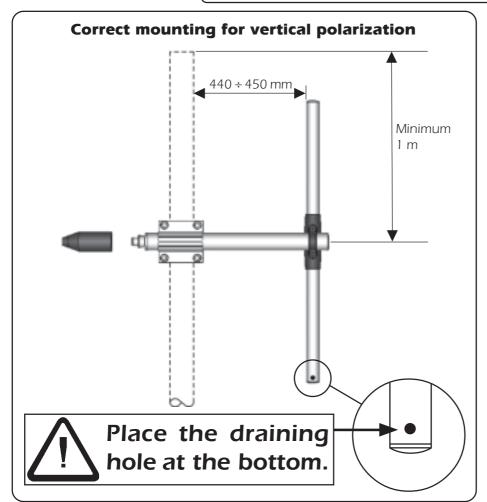


155 - 175 MHz band



LOWHE ID357

MOUNTING INSTRUCTIONS





Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

	Part List
Q.ty	Description
1	Extruded aluminium bracket
2	Steel bracket
2	M8x200 U-bolt
4	M8 Grower washer
4	M8 Hexagonal nut
2	M6x20 Hexagonal head screw
2	M6 Grower washer
2	M6 Hexagonal nut

