

1-Port Omnidirectional Antenna

468-492 MHz



DS040362-1A

Model #: 104A-69A-00-00-07-N



Description

This antenna with a broad frequency band and rugged construction is ideal for both base station and marine deployments in hazardous areas. Radiating elements are encased in a weather-resistant, low-loss fiberglass radome. The size and mounting fixtures allow for easy storage and fast installation. Ideal for use where reliability is of the utmost importance. With sturdy and strong construction, these antennas have been designed for a long lifetime.

Features

- A 0 dBd (2 dBi), vertically polarized, omnidirectional base station and marine antenna covering the 468-492 MHz band
- Can be mounted vertically or horizontally on 16-54 mm (0.6-2.1 in) diameter mast tubes
- Cable can be led either on the outside or along the inside of the mast tube
- The carefully designed, broad-banded $\frac{1}{2} \lambda$ -dipole radiating element is made of brass and sealed in a high-quality fiberglass radome with low windload
- Shipped with the sturdy "LW" mast mount - a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminum
- Accompanying U-bolts and fittings are made of stainless steel
- All metal parts within the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable



Electrical Specifications

Parameter	Value
Frequency Range (MHz)	468–492
Polarization	Vertical
Gain	0 dBd (2.1 dBi)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	80°
Impedance (Ohms)	50
VSWR	< 1.5:1
Maximum Input Power (Watts)	300 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical Specifications

Parameter	Value
Overall Height	41.3 inch
Diameter	1 inch
Mounting	On 16-54 mm (0.6-2.1 in) diameter mast tube
Net Weight - Antenna Only	Approx. 1.5 (3.3)
Wind Area	0.029m ² (0.31ft ²)
Wind Load at 160 km/h (99 mph)	33.6N (7.6lbf)
Connector Type	(1x) N Female at Bottom
Connector Torque	0.7-1.1Nm
Torque Max	3Nm
Radome Material	Polyurethane-Coated Fiberglass
Radome Color	Marine White RAL9010
Mounting Hardware Material	Mounting bracket: Stainless acid-proof steel (AISI 316L) U-bolts and fittings: Stainless steel (AISI 304)
Shipping Weight	0.65kg (1.4lbs)
Packing Dimensions Cardboard Tube <i>Length x Diameter x Thickness</i>	700mm x 50mm x 2mm (27.6in x 2.0in x 0.1in)
Shipping Comment	Universal stainless steel mast mounting clamp (LW-SS-1) packed separately

Environmental Specifications

Parameter	Value
Operating Temperature Range	-35° to +70° C (-31° to +158° F)
Survival Wind Speed	200 (124)
Ingress Protection	IP66