

1-Port Omnidirectional Antenna



DS040358-1A

Model #: 104A-67A-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 a 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 449–471 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 $\frac{1}{2}$ λ -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

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Electrical Specifications

Parameter	Value
Frequency Range (MHz)	449–471
Polarization	Vertical
Gain	0 dBd (2 dBi)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	80°
Impedance (Ohms)	50Ω
VSWR	≤ 1.5:1
Bandwidth	22 MHz
Maximum Input Power (Watts)	300 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 040DE00

Mechanical Specifications

Parameter	Value
Overall Height	1050 mm (41.3 in)
Diameter	25.5 mm (1.0 in)
Mounting	On 16–54 mm (0.6–2.1 in) diameter mast tube
Net Weight - Antenna Only	Approx. 1.5 kg (3.3 lbs)
Wind Area	0.029 m ² (0.31 ft ²)
Wind Load at 160 km/h	33.6 N (7.6 lbf)
Connector Type	(1x) N Female at Bottom
Connector Torque	0.7–1.1 Nm
Torque Max	3 Nm
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	0.65 kg (1.4 lbs)
Packing Dimensions	700 x 50 x 2 mm (27.6 x 2.0 x 0.1 in)
Shipping Comment	Universal stainless steel mast mounting clamp (LW-SS-1) packed separately

Environmental Specifications

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

