

BA1012-1

Features

This universal antenna with a broad frequency band and rugged construction is ideal for both base station and marine deployments. 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.

- This multi-purpose, omnidirectional, 0 dBd (2 dBi), rod-type base station and marine antenna covers the 144-162 MHz band and can be used in a wide variety of applications
- The broad-banded $\frac{1}{2} \lambda$ dipole antenna element is sealed in a high-quality conical fiberglass tube with low wind-load, which will ensure undisturbed performance by corrosive environments
- 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
- Can be mounted vertically or horizontally on mast tubes with an outer diameter of 16-54 mm (0.6-2.1 in)
- Cable can be led either on the outside or along the inside of the mast tube
- Wide bandwidth with respect to both VSWR and gain
- DC-grounded to substantially reduce noise caused by atmospherical discharges and consequently shows a DC-short across the coaxial cable
- Vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station and marine antenna



PRODUCT OVERVIEW	Antenna Type	Universal, Unity Gain, Base Station and Marine, Fiberglass Omni, Coaxial Dipole, Broad-Band
	Frequency Range (MHz)	144-162
	Connector	1 Port
	Polarization	Vertical
	Gain	0 dBd (2.2 dBi)
	Overall Height	1300 mm (51.2 in)

ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	MOUNTING HARDWARE	SHIPPING WEIGHT
BA1012-1	Universal Stainless Steel Mast Mounting Clamp (LW-SS-1)	0.75 kg (1.7 lbs)

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	144-162
Polarization	---	Vertical
Gain	dBd (dBi)	0 (2.2)
Azimuth Beamwidth (3 dB)	degrees	Omnidirectional
Elevation Beamwidth (3 dB)	degrees	80°
Impedance	Ohms	50Ω
VSWR	---	≤ 1.5:1
Bandwidth	---	18 MHz
Maximum Input Power	Watts	150 W
Antistatic Protection	---	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	---	HCM000ND00, 040DE00

MECHANICAL SPECIFICATIONS

Overall Height	mm (in)	Approx. 1300 (51.2)	
Diameter at Top End	mm (in)	Ø8 (0.3)	
Diameter at Bottom End	mm (in)	Ø16 (0.6)	
Mounting	---	On 16-54 mm (0.6-2.1 in) diameter mast tube	
Net Weight - Antenna Only	kg (lbs)	Approx. 0.8 (1.8)	
Wind Area	m ² (ft ²)	0.0172 (0.19)	
Wind Load at 160 km/h (99 mph)	N (lbf)	22 (5)	
Connector Type	---	(1x) N Female at Bottom	
Radome Material	---	Polyurethane-Coated Fiberglass	
Radome Color	---	White RAL9003	
Mounting Hardware Material	---	Mounting bracket: Seawater-resistant aluminum, epoxy-coated Clamps: Stainless steel	
Packaging Information	Shipping Weight	kg (lbs)	0.75 (1.7)
	Packing Dimensions Cardboard Tube Length x Diameter x Thickness	mm (in)	1475 x 50 x 2 (58.1 x 2.0 x 0.1)
	Shipping Comment	---	Universal stainless steel mast mounting clamp (LW-SS-1) packed separately

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	degrees	-30° to +70° C (-22° to +158° F)
Survival Wind Speed	km/h (mph)	200 (124)
Ingress Protection	---	IP66

INSTALLATION Please read all installation notes before installing product.



Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

[Universal stainless steel mast mounting clamp \(LW-SS-1\)](#)

NOTES

For Radiating Patterns: [Request pattern files](#)