



Laird's FG8243 omnidirectional fiberglass base station antennas are collinear designs enclosed in a high-density fiberglass which is covered with a protective ultraviolet inhibiting coating.

The radiating elements are made from high-efficiency copper and are carefully phased to provide maximum gain in the horizontal plane. The mounting sleeves are tuned to eliminate RF currents from the transmission line, resulting in a cold sleeve allowing great freedom in mounting. This high quality and well-focused beam provides the highest gain and best efficiency.

FEATURES AND BENEFITS

- Highly stable PC board matching section
- Superior quality design
- Highest gain and best matching efficiency in the industry
- Special UV treated radome/resists sun damage
- N-female industry standard connector
- 100% tested on a Network Analyzer

ELECTRICAL SPECIFICATIONS	
Operating Frequency (MHz)	824-896
VSWR	<2:1
Gain (dBi)	4.5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Vertical Plane 3 dB Beamwidth (°)	60
Horizontal Plane 3 dB Beamwidth (°)	360

MECHANICAL SPECIFICATIONS	
Dimensions – diameter x height – mm (inches)	33.3 x 588.7 (1.31 x 23.125)
Weight – kg (lbs.)	24 (1.5)
Cable Type	None
Radome Material	UV-Treated Fiberglass
Lightning Protection	Lightning Arrestor LABH350NN (sold separately)
Connector Type	N-Female Connector

MECHANICAL SPECIFICATIONS	
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Rated Wind Velocity – km/hr (mph)	210 (125)
Rated Wind Velocity (with .5" radial ice) – km/hr (mph)	137 (85)
Lateral Thrust @ 125 mph Wind Velocity – kg (lbs.)	26 (57)
Wind Resistance – cm ² (ft ²)	200.67 (0.216)
Material Substance Compliance	RoHS Compliant

ACCESSORIES

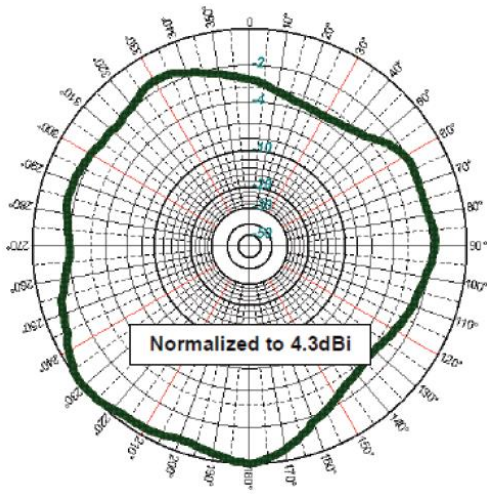


Figure 1: Lightning Arrestor LABH350NN (sold separately)

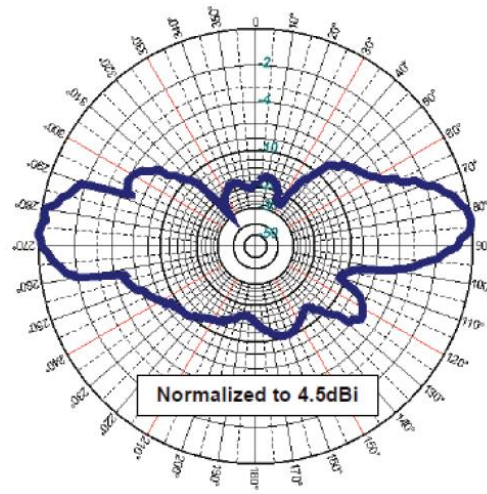


Figure 2: FM2 Mounting Kit (sold separately)

RADIATION PATTERNS



Azimuth Pattern



Elevation Pattern

Americas: +1.847 839.6925
 IAS-AmericasSales@lairdtech.com
 Europe: +44.1628.858941
 IAS-EUSales@lairdtech.com
 Asia: IAS-AsiaSales@lairdtech.com
 Middle East and Africa: +44.1628.858941
 IAS-MEASales@lairdtech.com
 www.lairdtech.com

✓RoHS

Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2018 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

