



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 <sup>2</sup> (ft <sup>2</sup> )	200.67 (0.216)
Material Substance Compliance	RoHS Compliant

### ACCESSORIES

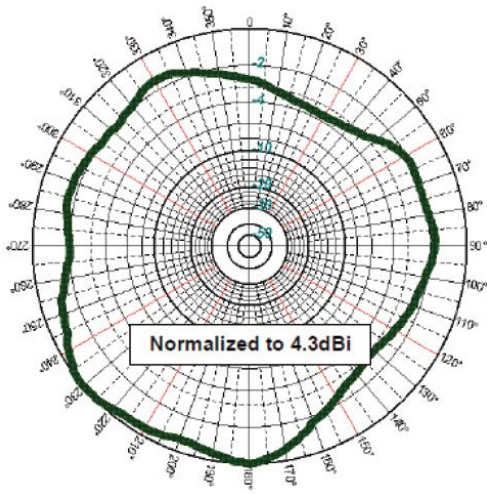


**Figure 1: Lightning Arrestor LABH350NN (sold separately)**

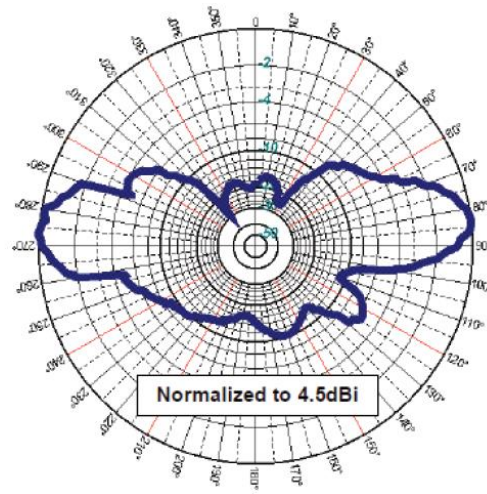


**Figure 2: FM2 Mounting Kit (sold separately)**

RADIATION PATTERNS



Azimuth Pattern



Elevation Pattern

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✓RoHS

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