



FG812/18503

Dual-Band Omnidirectional Antenna
806-896 MHz/1850-1990 MHz

Laird Connectivity's 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

- Every FG fiberglass base antenna is tested on a network analyzer to assure the best performance
- Special UV-treated - Stands up to the sun
- Durable gold anodized sleeve and cap with N-female connector
- Custom tuning available
- FedEx/UPS shippable

APPLICATIONS

- Omnidirectional (circular) outdoor antenna applications used by private organizations and government agencies around the globe.
- Typical applications include land-based and marine radio and data transmissions for public safety agencies, commercial organizations, and the military

ELECTRICAL SPECIFICATIONS

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|---------------------------------|------------------------|
| Model Name | FG821/18503 |
| Operating Frequency (MHz) | 806-896 1850-1990 |
| Gain (dBi) | 0 3 |
| VSWR - Max | < 2:1 |
| Max Power - Ambient 25°C (W) | 100 |
| Nominal Impedance (Ohms) | 50 |
| Polarization | Vertical |
| Pattern | Omnidirectional |
| Vertical Plane 3 dB Beamwidth | 60° 110° |
| Horizontal Plane 3 dB Beamwidth | 360° |

MECHANICAL SPECIFICATIONS

| | |
|--|--|
| Dimensions - Height x Diameter - cm (inches) | 34.9 x 3.3 (13.75 x 1.310) |
| Weight - kg (lbs.) | 0.45 (< 1.0) |
| Cable Type | N/A |
| Lightning Protection | Lightning arrestor LABH350NN (sold separately) |
| Mounting | FM2 mounting kit (sold separately) |

ENVIRONMENTAL SPECIFICATIONS

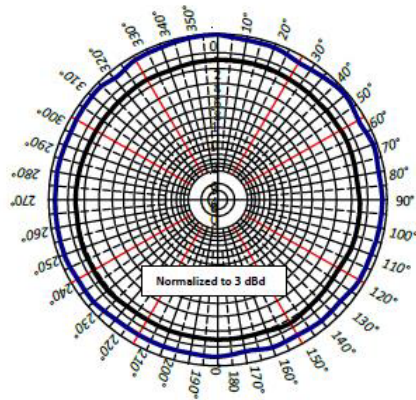
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|--|-----------------|
| Rated Wind Velocity - km/hr (mph) | 210 (125) |
| Rated Wind Velocity (with 0.5-in radial ice) - km/hr (mph) | 137 (85) |
| Lateral Thrust @ 125 mph wind velocity - kg (lbs.) | 26 (57) |
| Wind Resistance - sq. m (sq. ft.) | 0.0116 (0.1256) |
| Material Substance Compliance | RoHS |

CONFIGURATION

| PART NUMBER | CABLE LENGTH | CONNECTOR |
|-------------|--------------|-----------|
| FG821/18503 | N/A | N-Female |



FM2 Mounting Kit (sold separately)



Azimuthal Patterns (X,Y or E-Plane)

- Cellular Frequency: 821-896 MHz PCS
- Frequency: 1850-1990 MHz