



FG821/18503
(shown with optional FM2SP mounting kit)



FM2 Mounting Kit
(sold separately)

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

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

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

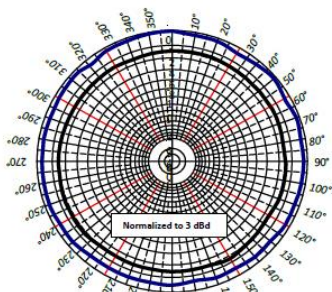
PART NUMBER	CABLE LENGTH	CONNECTOR
FG821/18503	N/A	N-Female

✓RoHS

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Azimuthal Patterns (X,Y or E-Plane)

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

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