



FG821-18503

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

FG821-18503 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 arrester LABH350NN (sold separately)
Mounting	FM2 mounting kit (sold separately)

ENVIRONMENTAL SPECIFICATIONS

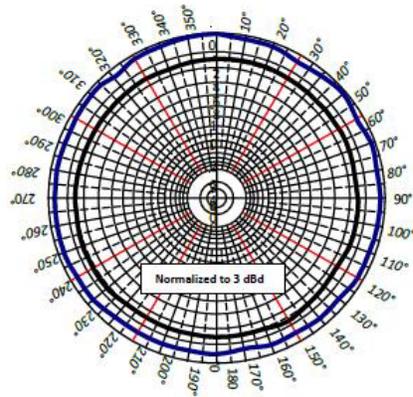
Rated Wind Velocity - km/hr (mph)	210 (125)
Rated Wind Velocity (with 0.5-in radial ice) - km/hr (mph)	137 (85)
Lateral Thrust @ 125 mph wind velocity - kg (lbs.)	26 (57)
Wind Resistance - sq. m (sq. ft.)	0.0116 (0.1256)
Material Substance Compliance	RoHS

CONFIGURATION

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



LABH350NN Lightning Arrester (Sold Separately)



Azimuthal Patterns (X,Y or E-Plane)

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

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