



## FG4205

### 420-430 MHz 5DBD GAIN OMNIDIRECTIONAL ANTENNA

#### FIBERGLASS BASE STATION ANTENNAS FEATURE INDUSTRY LEADING DESIGN COMPONENTS THAT PERFORM IN EXTREME CONDITIONS

The Laird FG4205 omnidirectional base station antenna incorporates a collinear design that is enclosed in high density fiberglass, which is covered with a protective ultraviolet inhibiting coating. The radiating elements 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 that allows for greater freedom in mounting. The antenna’s high quality and well-focused beam provides the best efficiency with highest gain.

#### FEATURES AND BENEFITS

- High gain 5 dBd (7dBi)
- Every FG fiberglass base antenna is tested on a network analyzer before shipping to assure the best performance
- Custom UV protection coating
- Durable gold anodized sleeve and cap with N-female connector
- FedEx/UPS Shippable

#### APPLICATIONS

- Omnidirectional outdoor antennas used in commercial, public safety, and government applications around the globe.
- Typical applications include land based and marine radio and voice and data transmission

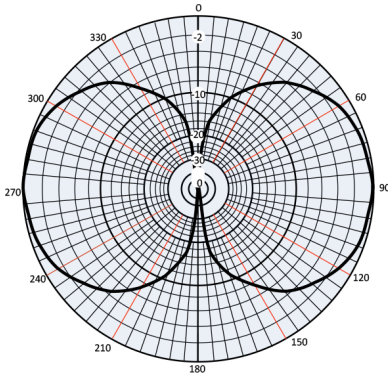
#### ELECTRICAL SPECIFICATION

Frequency Range	420-430 MHz
VSWR	< 2.0:1 Max
Nominal Gain	5 dBd (7 dBi )
Maximum Power	200 W
Nominal Impedance	50Ω
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation° x Azimuth°)	20° x 360°
Coaxial Cable Length & Type	None
Termination	N-Female connector
Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)

## MECHANICAL SPECIFICATION

Height	76"
Diameter	1.310"
Weight	< 6 lbs
Rated Wind Velocity	125 mph (210 kph)
Rated Wind Velocity (with 0.5" radial ice)	85 mph (137 kph)
Lateral Thrust @ 125 mph WIND VELOCITY	57 lbs. (26 kg)
Equivalent Flat Plate Area ( sq. ft.)	0.6959 sq. ft
Mounting Information	FM2 Mounting Kit, (Sold separately)
Operating Temperature	-30°C to +80°C

## ELEVATION PATTERN (Y, Z OR H-PLANE)



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