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# 863-928 MHz 5 dBi Gain Omnidirectional Antenna OF86315



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

The Laird OF86315 omnidirectional base station antenna incorporates a collinear design that is enclosed in high density fiberglass, 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

- Every OF 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

### 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
- LoRa Wireless Networks
- ISM band applications

### SPECIFICATIONS

PARAMETER	PERFORMANCE	
Model Number	OF86315-FNF	
Frequency Bands, MHz	863-876	902-928
Peak Gain, dBi (Avg)	5.2	5.4
Peak Gain, dBi (Max)	5.3	5.6
VSWR (Avg)	1.3:1	1.4:1
VSWR (Max)	1.65:1	
Azimuth 3 dB Beamwidth	360°	
Elevation 3 dB Beamwidth	28°-30°	27°-29°
Nominal Impedance	50 Ω	
Polarization	Vertical	
Max Power (Ambient 25° C), Watts	10	
Anti-Static Protection	DC Grounded	
Antenna Dimension (H x Dia)	692 x 25.4 mm (27.2" x 1.0")	
Weight	0.79 kg (1.7 lbs)	
Antenna Color	White	
Radome	Fiberglass	
Wind Operational	161 km/h (100 mph)	
Wind Survival	266 km/h (165 mph)	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Storage Temperature	-40°C to +85°C (-40°F to +185°F)	
Ingression Protection	IP67	
Material Substance Compliance	RoHS	

PART NUMBER	CABLE LENGTH	CONNECTOR
OF86315-FNF	NA	Fixed N- female

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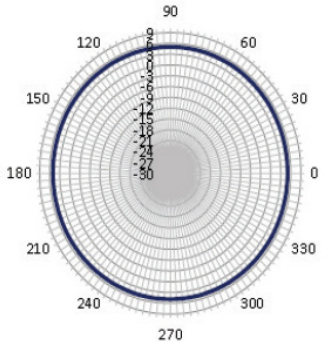
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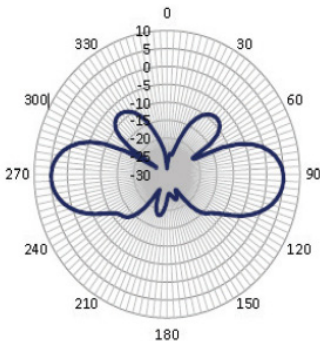
## RADIATION PATTERNS

### 863 MHz

Azimuth Plane

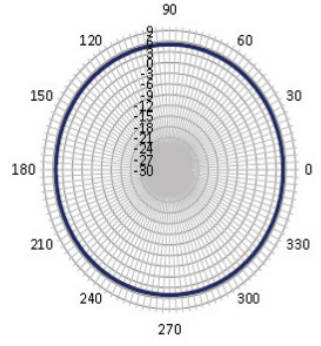


Elevation Plane

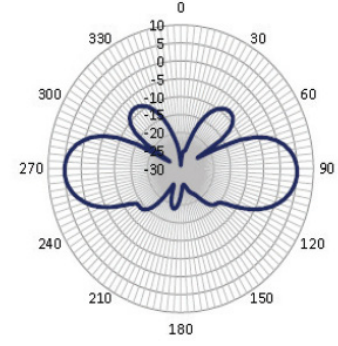


### 870 MHz

Azimuth Plane

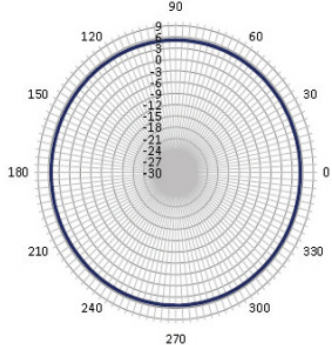


Elevation Plane

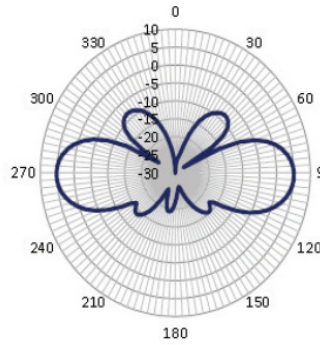


### 876 MHz

Azimuth Plane

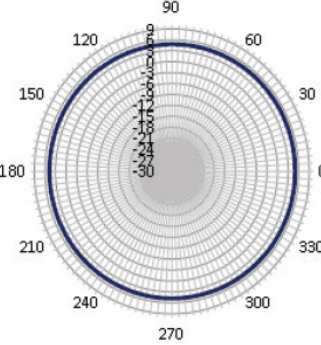


Elevation Plane

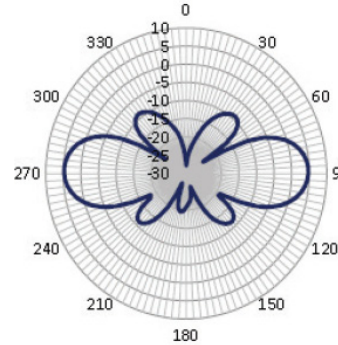


### 902 MHz

Azimuth Plane

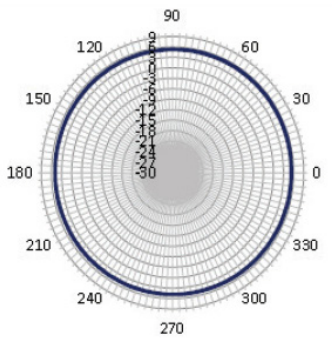


Elevation Plane

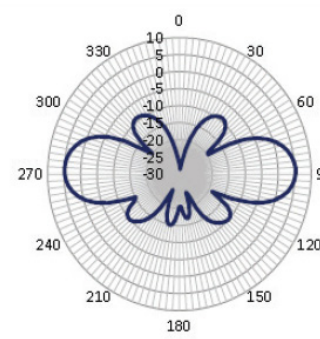


### 914 MHz

Azimuth Plane

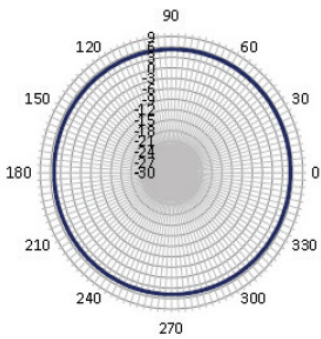


Elevation Plane

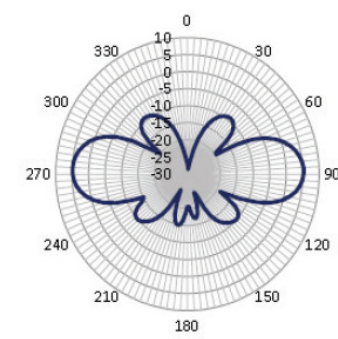


### 928 MHz

Azimuth Plane



Elevation Plane



ANT-DS-OF86315 0417

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