

Laird OF86315 868/915 MHz IoT ISM Collinear Antenna

Product Code

OF86315

Polarisation

Vertical (V)

Design Type

Collinear

Application Category

Base Station

RF Category

IoT



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.

- Tuned to 868 and 915 MHz centre frequencies
- Suitable for LoRa, Sigfox, other ISM technologies
- Stable omnidirectional performance
- IP67 ingress protection rating
- Durable UV stable fibreglass radome
- Integrated N female connector (no cable)

▼ Antenna Technical Data

Physical Characteristics

Construction Material	Fibreglass (GRP)	RF Connections	1
Radome Colour	Other - White	Environmental Rating	IP67
Dimensions	692 x 25.4 mm (H x ø)	Operating Temperature	-40 °C to 70 °C
Weight	0.7900 kg	Mounting	Pole

▼ ISM Collinear Element

Electrical Specifications

Input Impedance 50 Ω

Polarisation Vertical (V)

Mechanical Specifications

Input Connector N

Input Connector Gender Female

Electrical Specifications**Mechanical Specifications**

Max. Input Power 10 W

Cable Series -

PIM, 3rd Order -

Cable Length -

▼ Range: 863 to 876 MHz

Peak Gain 5.20 dBi

Azimuth Beamwidth 360°

VSWR 1.3:1

Elevation Beamwidth 29°

Radiation Efficiency No Data

Electrical Tilt 0°

Front-to-Back Ratio -

Inter-Port Isolation -

Cross-Polar
Discrimination -

Cross-Polar Isolation -

▼ Range: 902 to 928 MHz

Peak Gain 5.40 dBi

Azimuth Beamwidth 360°

VSWR 1.4:1

Elevation Beamwidth 28°

Radiation Efficiency No Data

Electrical Tilt 0°

Front-to-Back Ratio -

Inter-Port Isolation -

Cross-Polar
Discrimination -

Cross-Polar Isolation -

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