

Part No. 1004829

LoRA2 ISM868/915 Embedded FPC Antenna

868 MHz, 915 MHz

Supports: Tracking, Smart Home, Agriculture, Automotive, Healthcare, Digital Signage, Wearables, Industrial Devices



Ethertronics' 1004829 custom ISM antenna delivers on the key needs of device designers for higher functionality and performance in smaller/thinner designs. These innovative antennas provide compelling advantages for 868 and 915 MHz ISM enabled handheld devices, media players and other mobile devices.

Electrical Specifications

Typical performance in customer's unit with housing.

Frequency	863 - 870 MHz	902 – 928 MHz
Peak Gain	0.06 dBi	1.5 dBi
Average Efficiency	47%	61%
VSWR Match	<2:1	
Feed Point Impedance	50 ohms	
Polarization	Linear	
Power Handling	2 Watt CW	

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KEY BENEFITS

Stay-in-Tune

IMD antenna technology provides superior RF field containment, resulting in less interaction with surrounding components.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Reliability

Products are the latest RoHS version compliant.

APPLICATIONS

- Embedded design
- Cellular, Headsets, Tablets
- Gateway, Access Point
- Handheld
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- OBD-II

Mechanical Specifications & Ordering Part Number

Ordering Part #	1004829
Dimensions (mm)	55.0 x 25.0 x 0.15
Weight (grams)	0.8
Cable/Connector (mm)	Length: 20 Diameter: 1.13 Color: Grey Connector: U.FL compatible
Mounting	Adhesive Tape
Packaging	PE bags

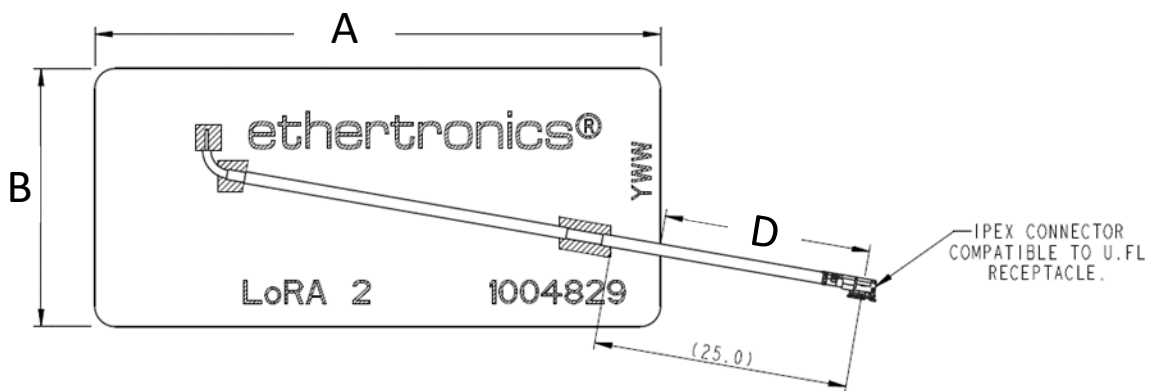


LoRA2 ISM868/915 MHz FPC Embedded Ethertronics' Antenna Specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

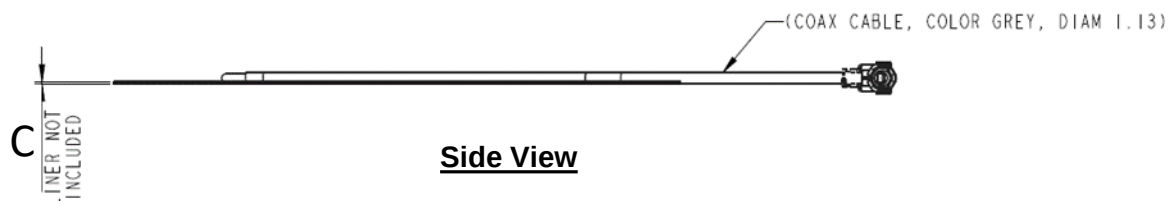
Antenna Dimensions

Typical antenna dimensions (mm)

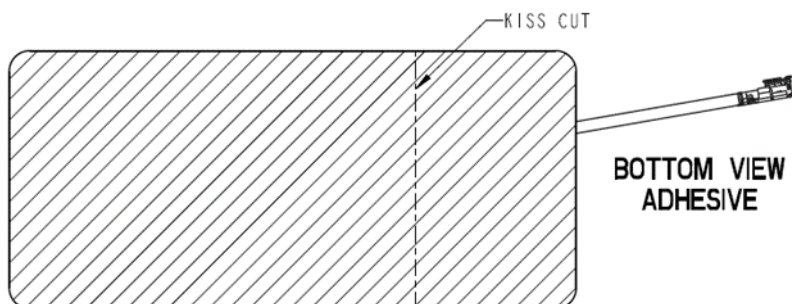
Part Number	A (mm)	B (mm)	C (mm)	D (mm)
1004829	55.0	25.0	0.15	20.0 ± 3.0



Top View



Side View



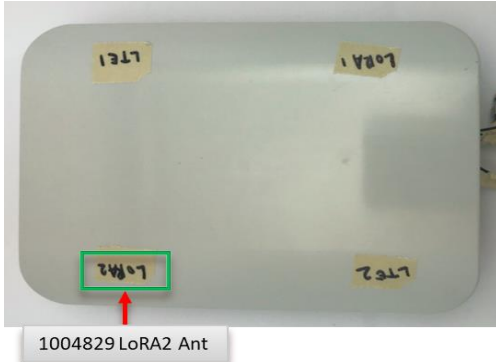
Bottom View



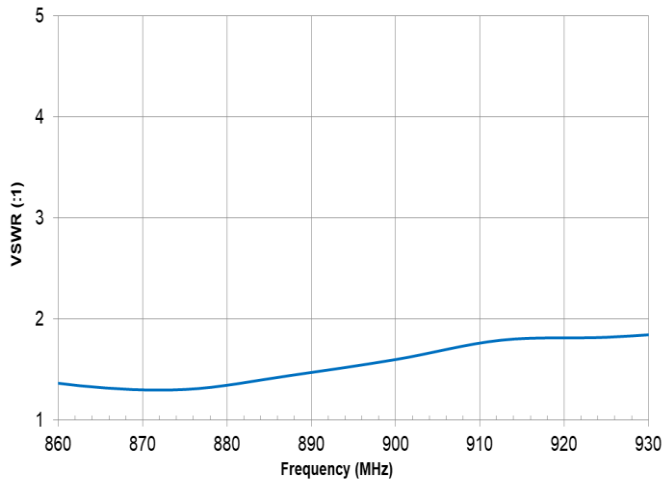
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VSWR, Efficiency and Peak Gain Plots

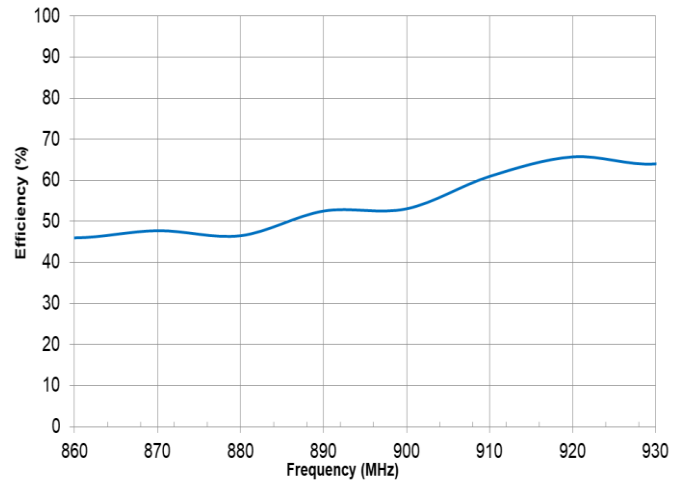
Typical performance in customer's unit with housing.



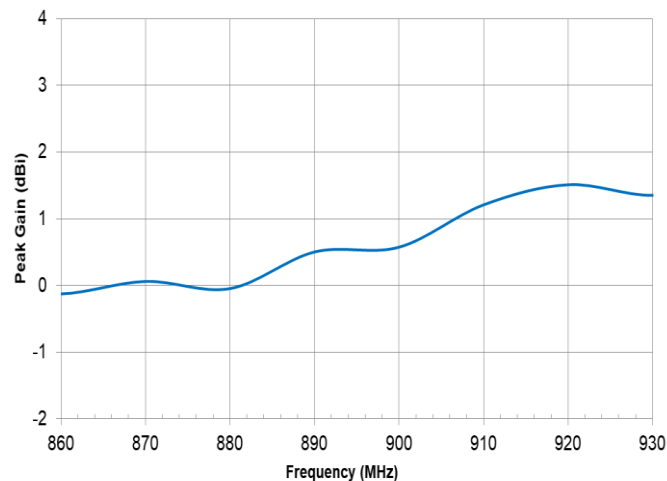
ISM VSWR



ISM Efficiency



ISM Peak Gain





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Antenna Radiation Patterns

Typical performance in customer's unit with housing.
Measured @ 870, 910 MHz

