



Part No. 9000046-XLPDNB

External European ISM Antenna

868 MHz

Supports: IoT, SigFox, LoRa, Cellular LPWA, RPMA, Tracking, Smart Metering



External European ISM Antenna

868 MHz

KEY BENEFITS

Reduced Costs and Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

Greater Flexibility with Unique Form Factors

Ethertronics' technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.

RoHS Compliant

Products are the latest RoHS version compliant.

APPLICATIONS

- Medical applications
- Home automation
- Smart metering
- M2M, Industrial devices
- Point of Sale
- Tracking
- Commercial/Communication
- Radar
- Wireless Monitoring
- Industrial
- Automotive
- Healthcare
- IoT

Ethertronics family of external antennas are designed to offer the best performances for a wide range of applications. This sleek External ISM antenna covers the European 868 MHz band and is specifically designed for industrial communication implementation requiring a plug-and-play solution.

Global Operations & Design Support

Ethertronics' global operations supports an integrated network of design centers that can take projects from concept to production.

Electrical Specifications

Typical Characteristics on circular 120 mm diameter ground plane

Frequency	868 MHz ± 20 MHz
Return Loss	< -10 dB
Efficiency	70%
Peak Gain	1.0 dBi
Impedance	50 Ω
Polarization	Vertical

Mechanical Specifications & Ordering Part Number

Ordering Part Number	9000046-XLPDNB
Size (mm)	101.0 ± 3.0 height 11.16 ± 1.0 diameter
Connector Type	SMA Male
Weight (grams)	6
Color	Black
Operating Temperature (°C)	-40 to +120

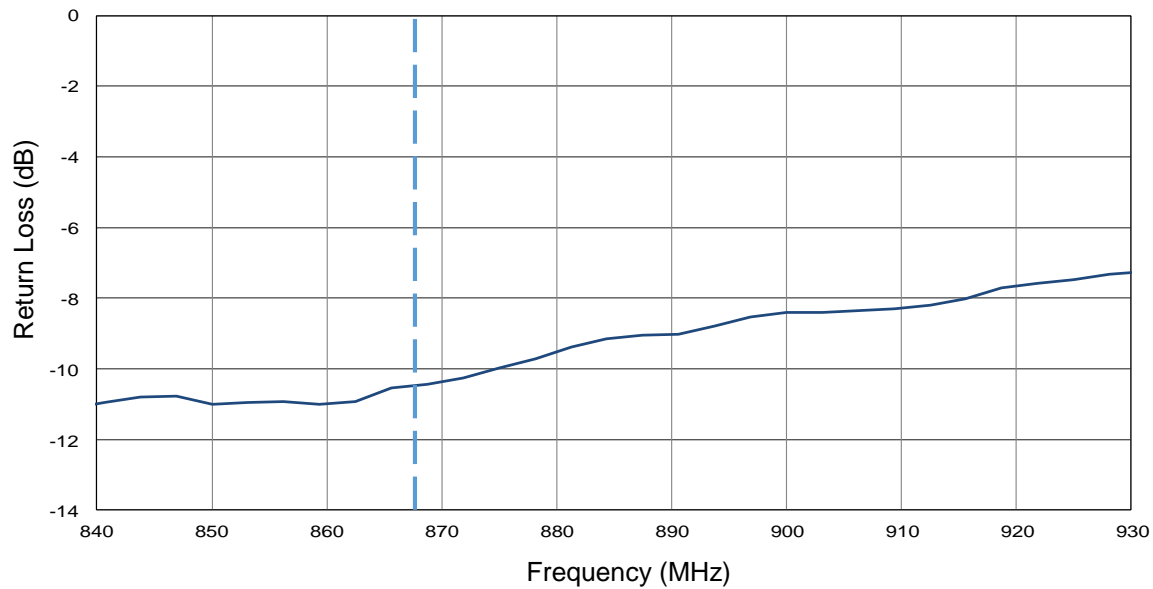


External ISM/LoRa/Sigfox antenna specifications
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

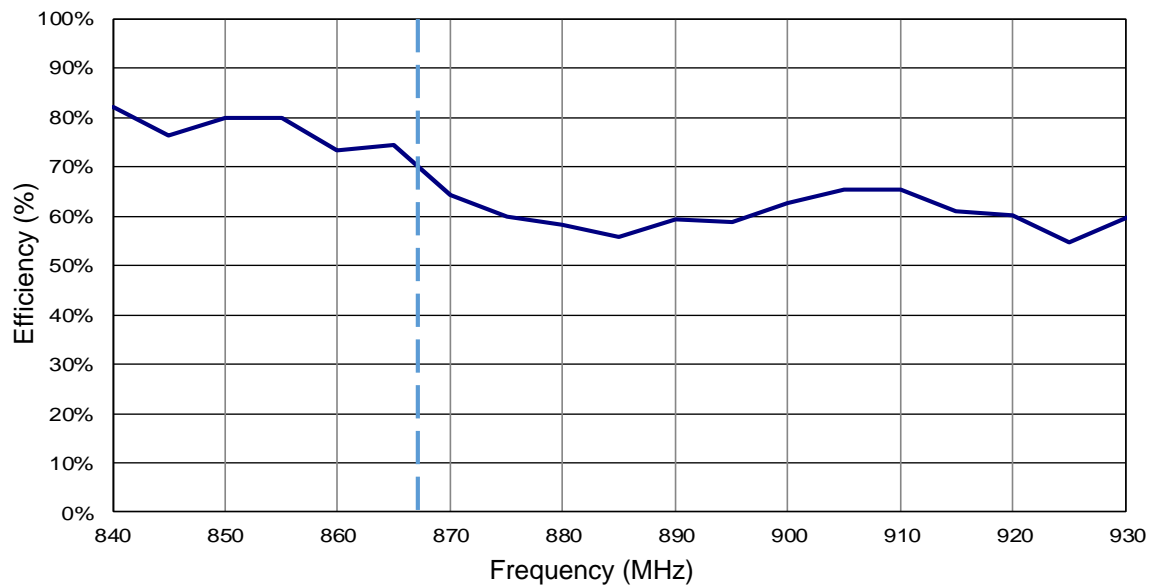
Return Loss and Efficiency Plots

Typical Characteristics on circular 120 mm diameter ground plane

Return Loss



Efficiency

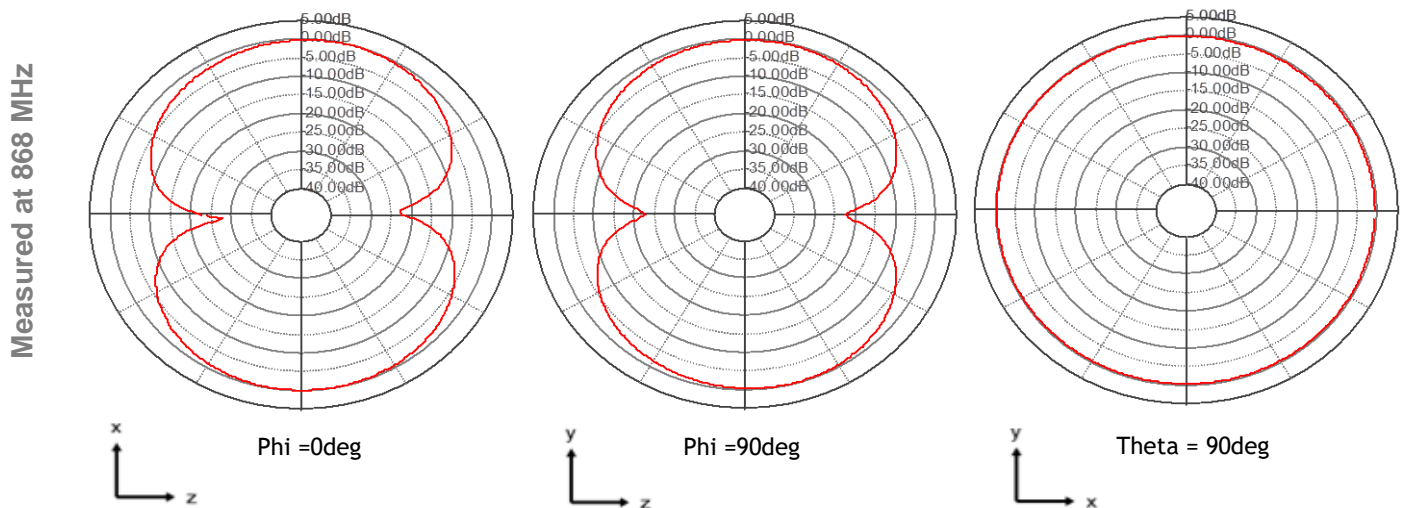
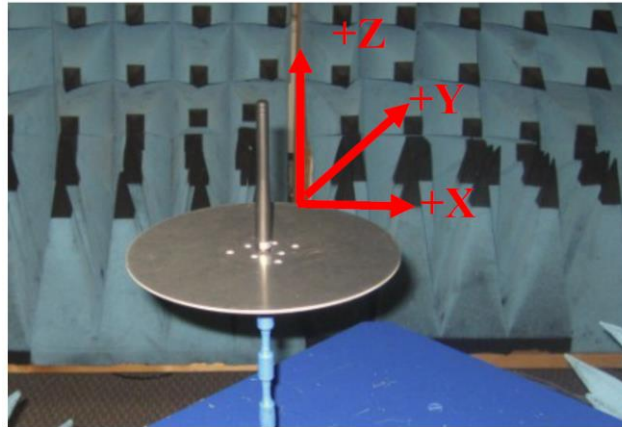




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Antenna Radiation Patterns

Typical Characteristics on circular 120 mm diameter ground plane





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Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	Connector
9000046-XLPDNB	101.± 3.0	11.16 ± 0.1	8.08 ± 0.1	SMA (Male)

