

# 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

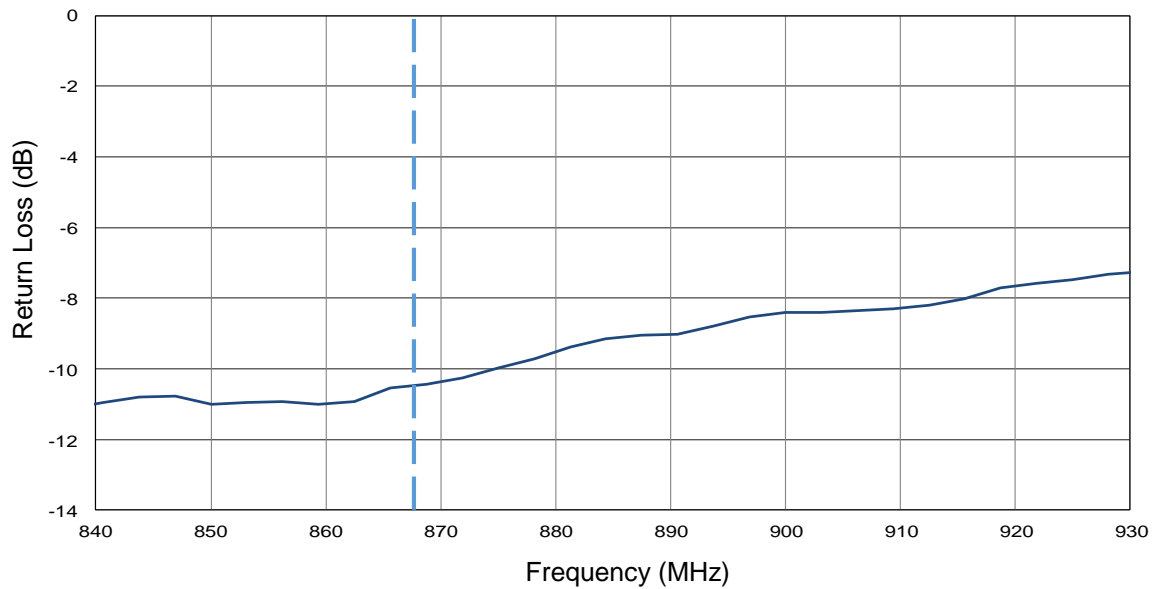


External ISM/LoRa/Sigfox antenna specifications  
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

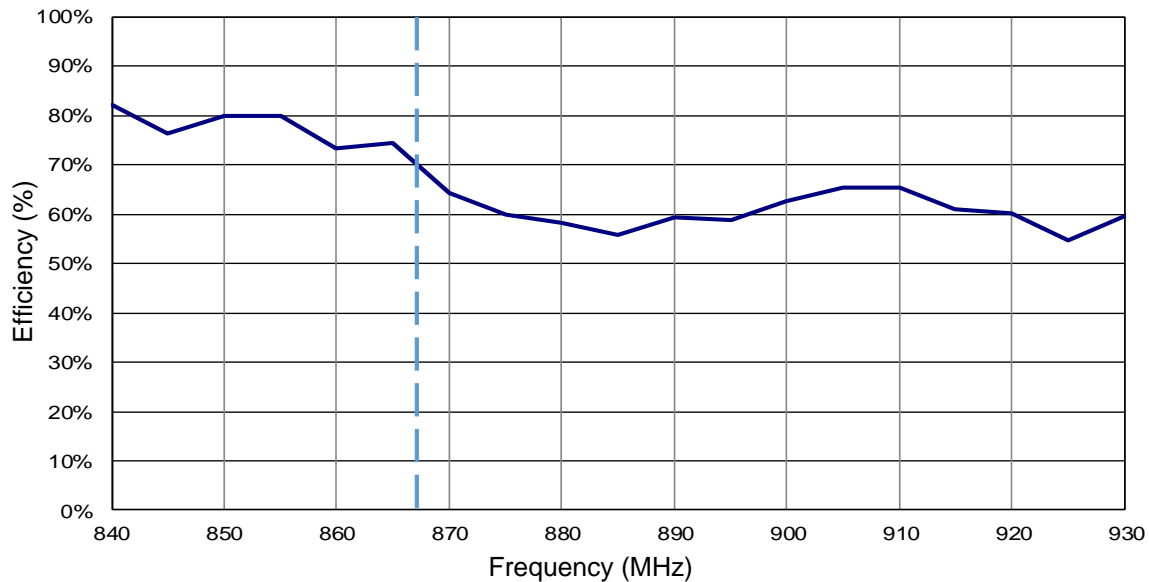
### Return Loss and Efficiency Plots

Typical Characteristics on circular 120 mm diameter ground plane

#### Return Loss



#### Efficiency

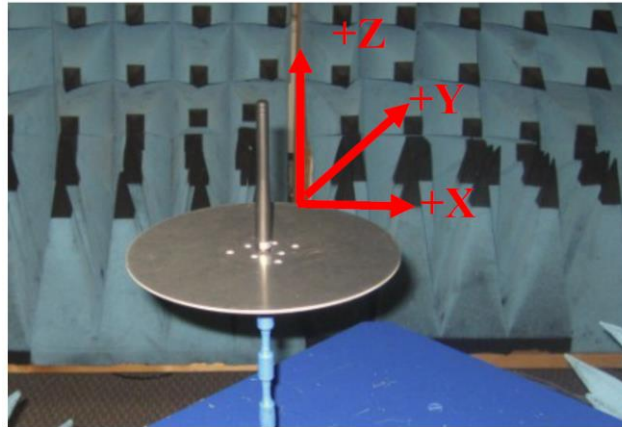




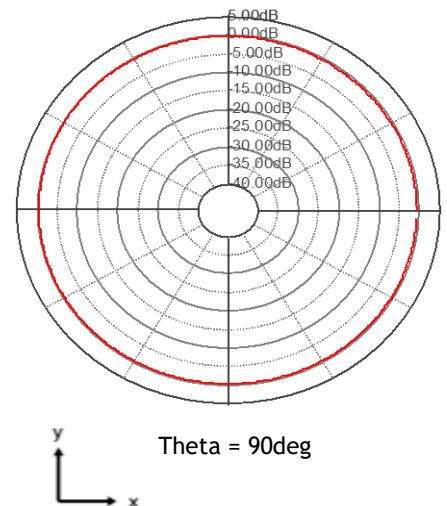
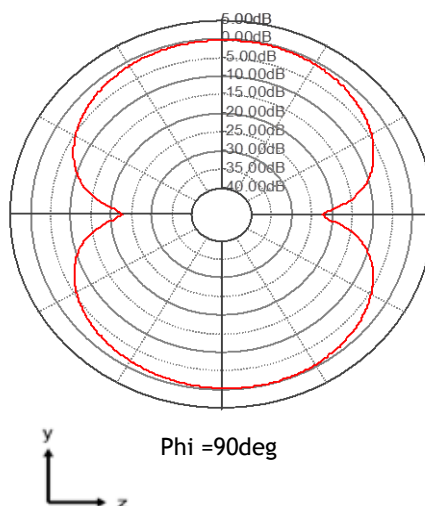
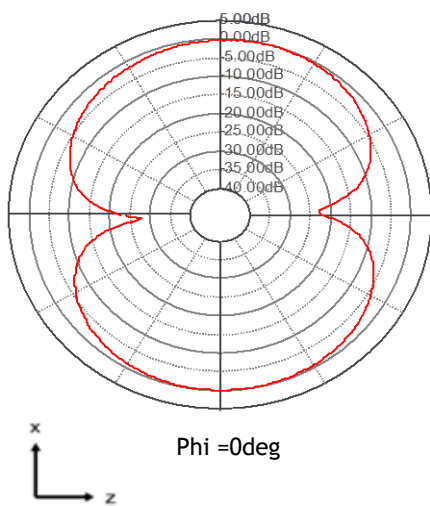
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### Antenna Radiation Patterns

Typical Characteristics on circular 120 mm diameter ground plane



Measured at 868 MHz



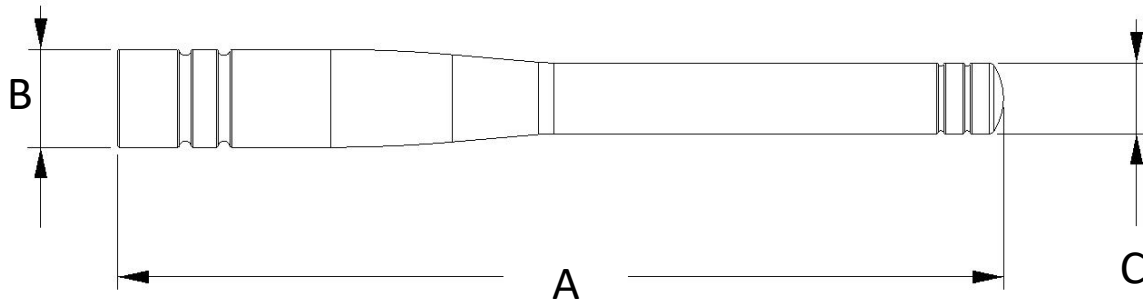


External ISM/LoRa/Sigfox antenna specifications  
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### Mechanical Dimensions

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)



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