



Coverage.
Performance.
Smart.

**OminiMax External
Dipole Series
ET915NPMR**

**Airgain
Outdoor
Antenna
Engineering
Data Sheet**

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Revision History (Required)

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Disclaimers

The information in this document is provided in connection with Airgain Antenna products and is proprietary and confidential. Airgain may make changes at any time, without notice.

Please verify with Airgain before finalizing a product design.

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1. Airgain ET915NPMR Outdoor Antenna

The Model ET915NPMR is an omni-directional high performance antenna for the 900MHz ISM band. This antenna was designed to accommodate outdoor communications including LoRa protocol for Internet of Things (IOT)

2. Features

The Model ET915NPMR Dipole Antenna is defined by the following features:

- Omni-directional dipole antenna
- LoRa IOT Band Coverage (902-928MHz)
- +2.7 dBi @910MHz nominal peak gain
- High efficiency



Figure 1: Model ET915NPMR Outdoor Antenna

3. Specifications and Interface

Standard	U.S. LoRa, 900 MHz ISM Band
Frequency range	902-928 MHz
Noninal peak gain	2.7dBi @910MHz, @ Room Temperature
VSWR	< 1.5:1
Feed impedance	50 ohms
Power handling	5 Watts
Interface	50 ohms, N-Plug type
Enclosure rating	Weather resistant UV stable
Antenna dimensions	Φ 28.0mm×225mm
Weight	210g(7.41 oz)
Temperature range	Operating -40°C to +85°C Storage -40°C to +85°C
Environment	Outdoor Mounted Upside Down
Humidity Range	5 to 100%
RoHS	RoHS compliant

4. Radiation Patterns – Vertical Mounting

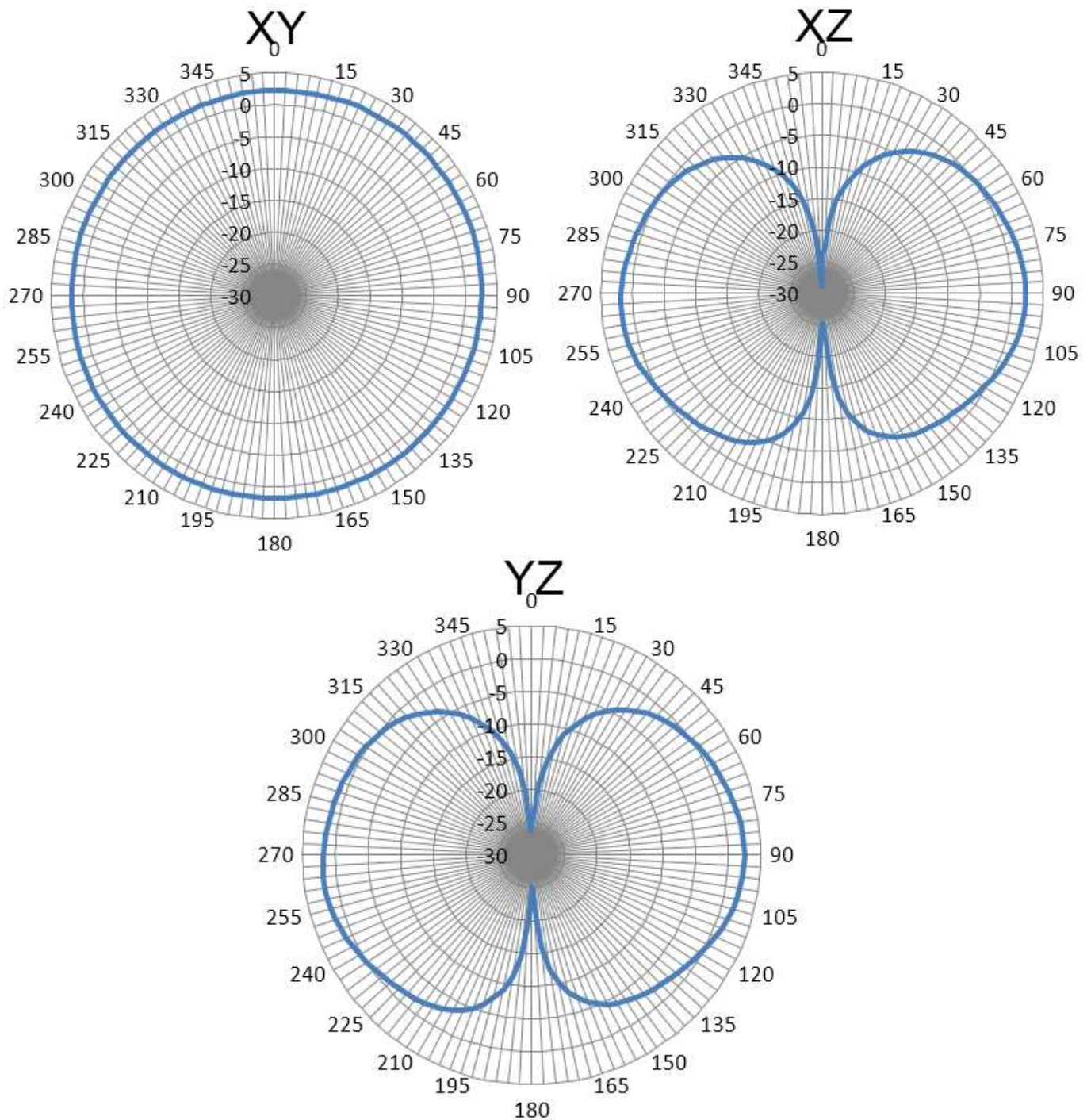
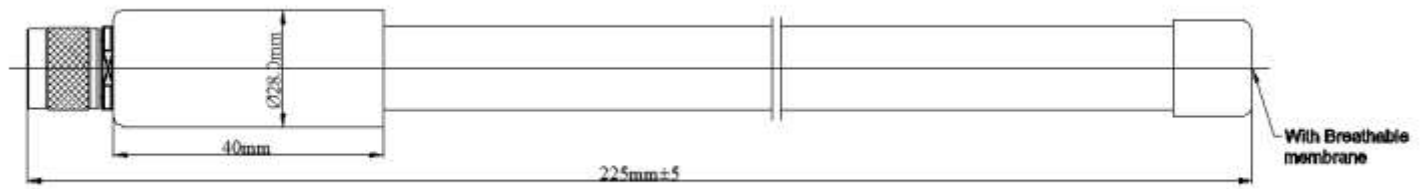


Figure 2: Model ET915NPMR Measured Radiation Patterns at 910MHz

5. Dimensions



Unless otherwise specified, tolerances are $\pm 2\text{mm}$

Figure 3: Model ET915NPMR Dimensions

6. Return Loss

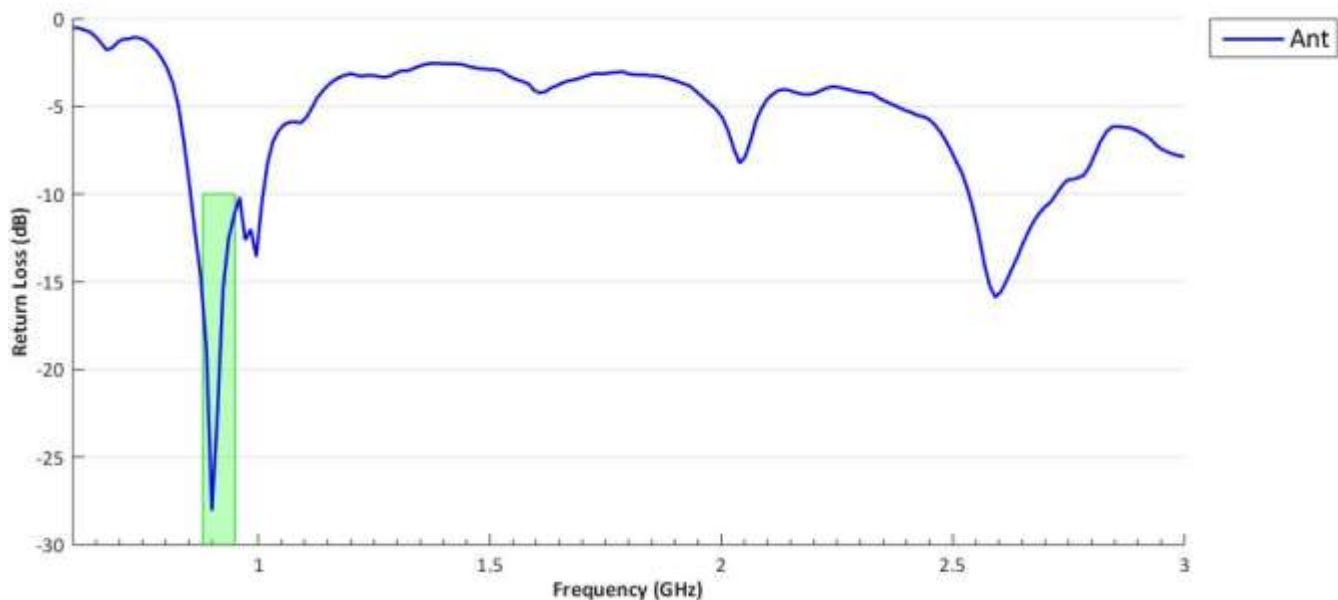


Figure 4: Model ET915NPMR S11

7. Installation.

The ET915NPMR antenna is design for remote mount, or direction mount applications. The base of the antenna is designed to accommodate a standard clamp such as the one detailed below. This antenna can be mounted in either orientation, upwards or downwards facing. When installation is outdoors, it is recommended to use butyl tape to seal any N-connectors.