

LPWAN 868+915 MHz - Flex Antenna



PRO-IS-279

Request Samples



Check Inventory



58.0 x 8.25 x 0.13 mm
RoHS/RoHS II Compliant
MSL Level = 1

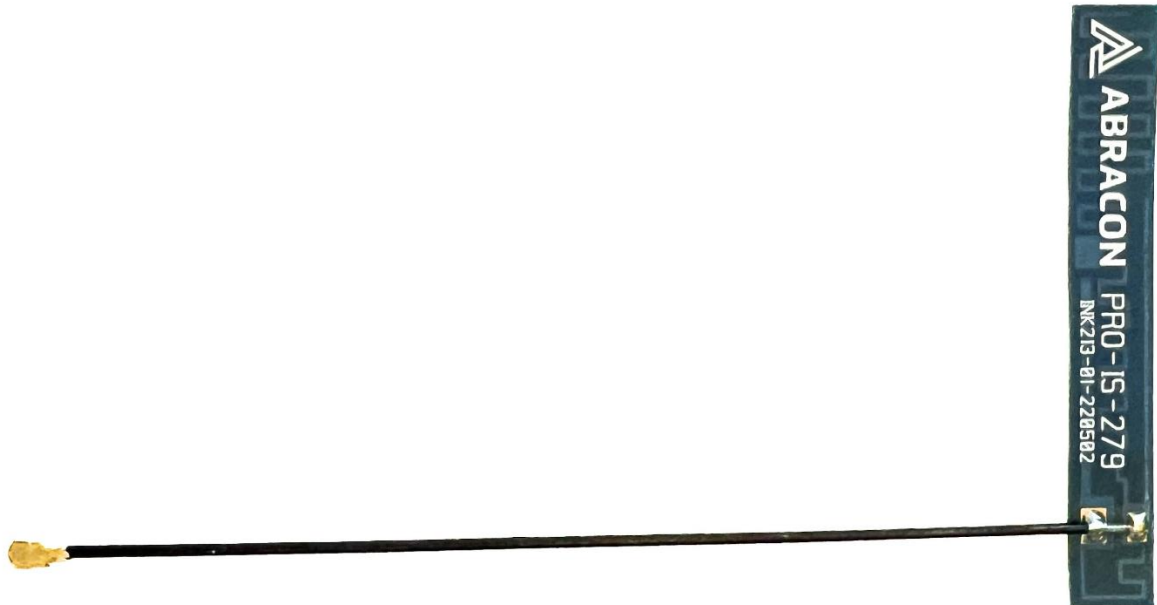
Features

- Frequency coverage : 868 – 960 MHz
- Low Profile
- Mixed Linear Polarization
- Low Peak Gain: 2.3 dBi
- Efficiency > 2.2 dB (60%)
- Easy integration using cable and connector

Applications

- LoRA/SigFox/ISM applications
- IoT, M2M
- Industrial, Infrastructure IoT
- Smart Metering
- Consumer electronics
- Wireless modules

Product Image



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Electrical Specification

| Parameter | Specification | Unit |
|---------------------|---------------|----------|
| Operating Frequency | 868 ~ 960 | MHz |
| Return Loss | < -5.4 | dB |
| Polarization | Mixed Linear | - |
| Peak Gain | 2.3 | dBi |
| Efficiency | > -2.2 (60) | dB (%) |
| Impedance | 50 | Ω |

Note: All measurements were conducted with the antenna mounted in a plastic box (2 mm ABS) in free space. Performance will vary depending on the ground plane, application, and environment.

Mechanical Specification

| Parameter | Specification |
|-------------------|-----------------------|
| Antenna Dimension | 58.0 x 8.25 x 0.13 mm |
| Antenna Type | Flexible |
| Cable Type | Coaxial |
| Cable Length | 100 mm |
| Connector Type | MHF-1 (F) |
| Mounting Type | Adhesive |

Environmental Specification

| Parameter | Specification |
|-----------------------|--|
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | |
| RoHS Compliance | Yes Compliant with EU directive 2011/65/EU and 2015/863 |
| MSL | 1 |



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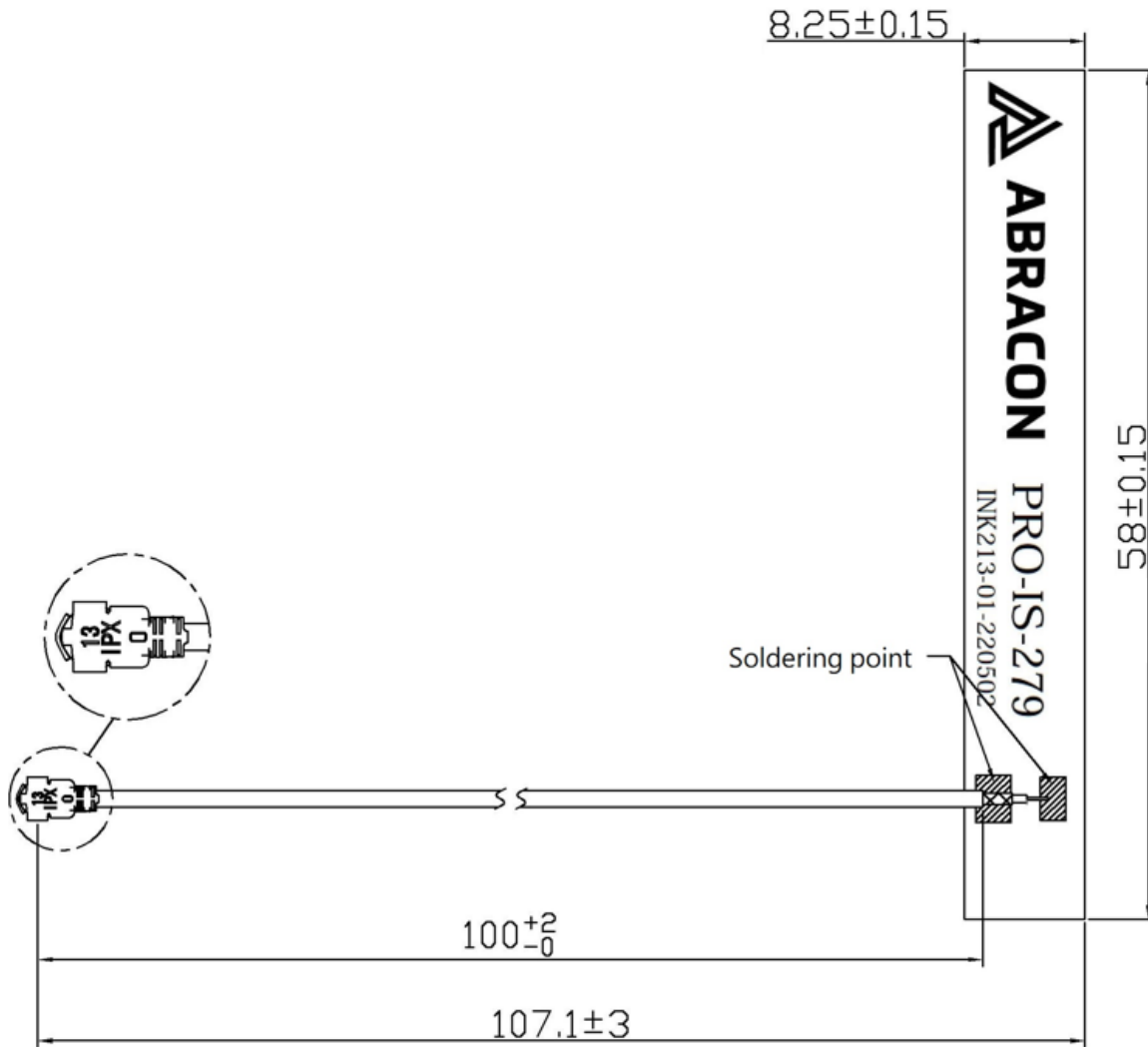


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Product Dimensions



Unit : mm



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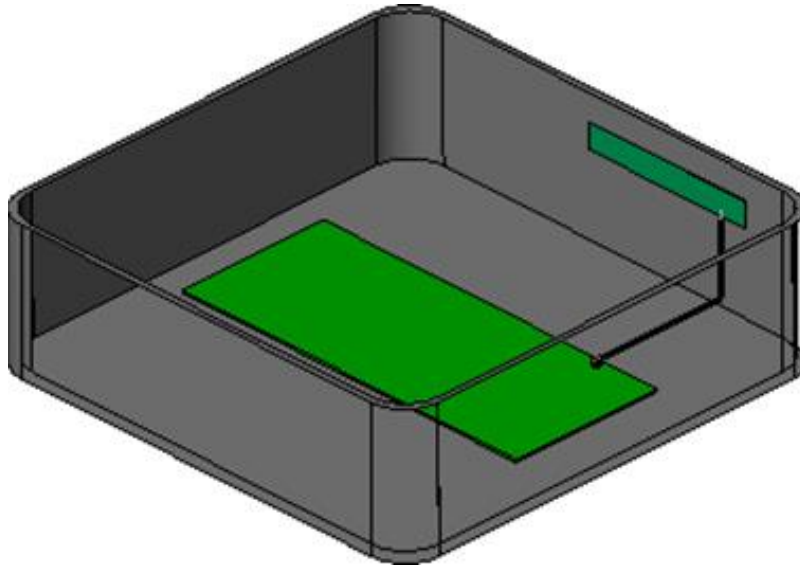
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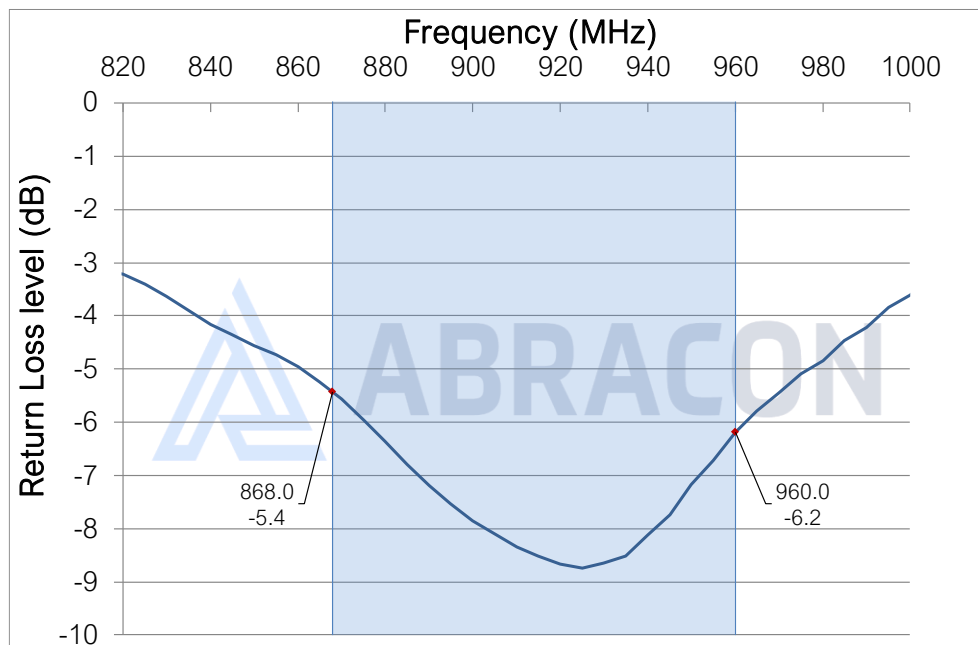
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Measurement Setup

The antenna measurements were done on a standard measurement fixture – the antenna mounted in an ABS plastic box, 150x150x45 mm, connected to a PCB, 120x50 mm, with the cable fully extended.



Reflection Characteristics – Return Loss



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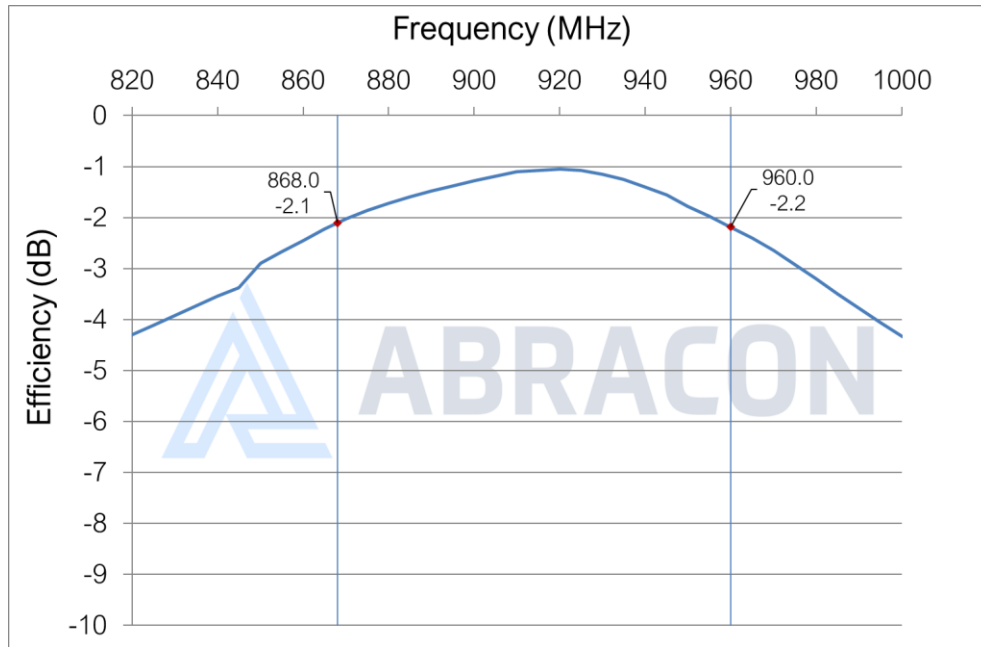


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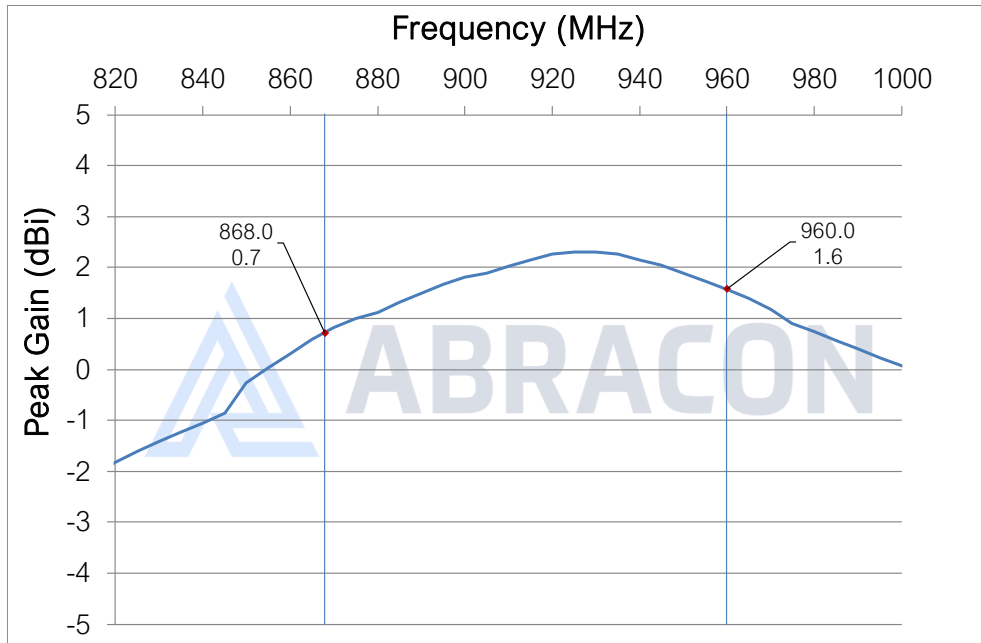


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Total Radiation Efficiency



Maximum Radiation Gain



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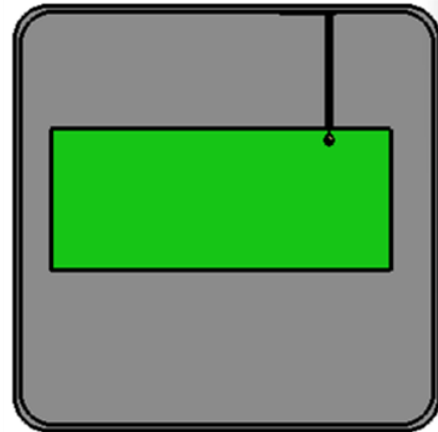
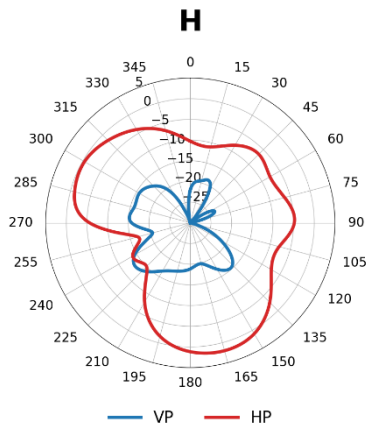
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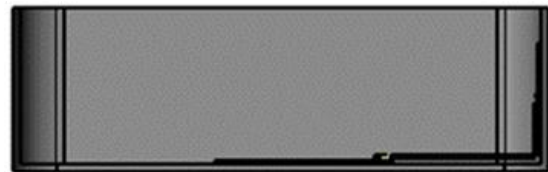
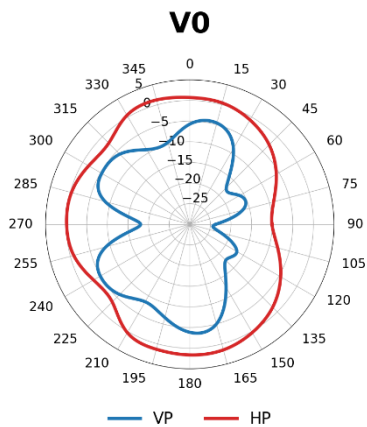
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Radiation Characteristics – 2D Pattern (915 MHz)

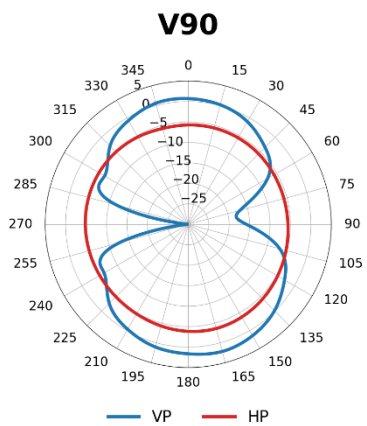
XY-plane:



YZ-plane:



XZ-plane:



VP: Vertical Polarization
HP: Horizontal Polarization

Unit: dBi



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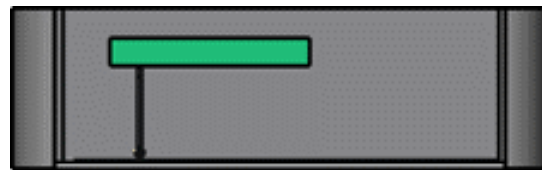
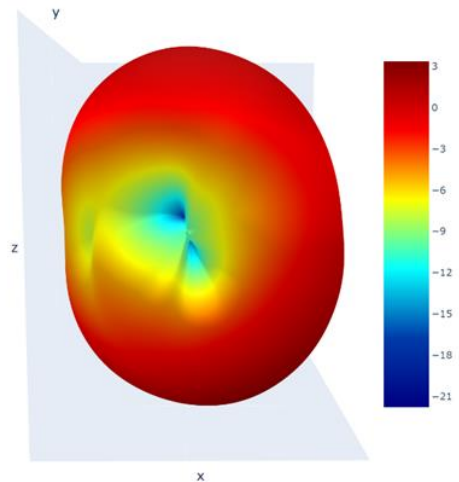
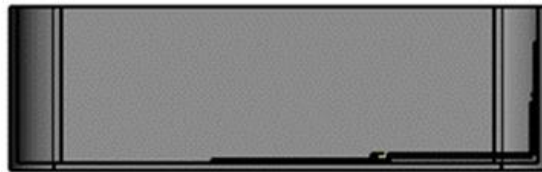
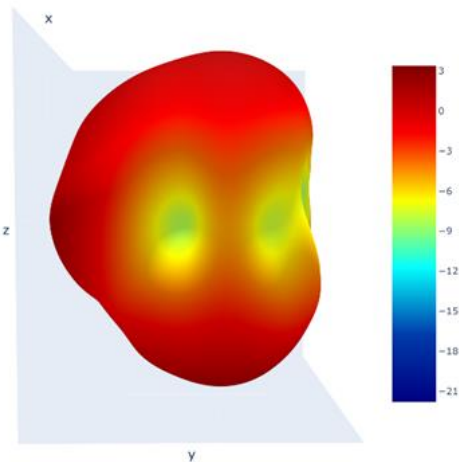
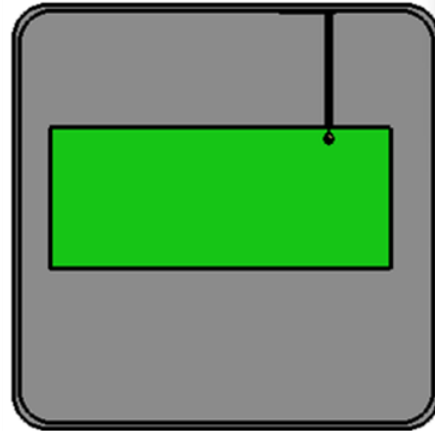
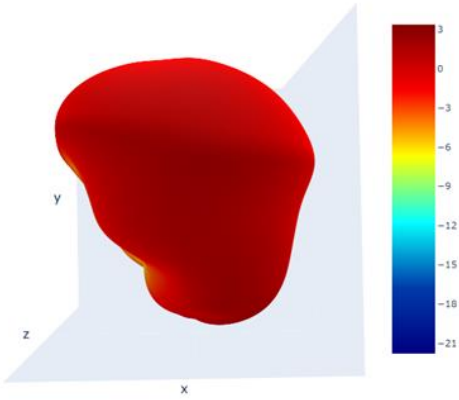


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Radiation Characteristics – 3D Pattern (915 MHz)



Unit: dBi

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Packaging

Pieces per bag: 50 pieces

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