

## 2.4/5.5 GHz : Wi-Fi/BT/BLE Board Antenna



**PRO-IS-432**

Request Samples



Check Inventory



**22.0 x 20.0 x 0.8mm**  
**RoHS/RoHS II Compliant**  
MSL Level = 1

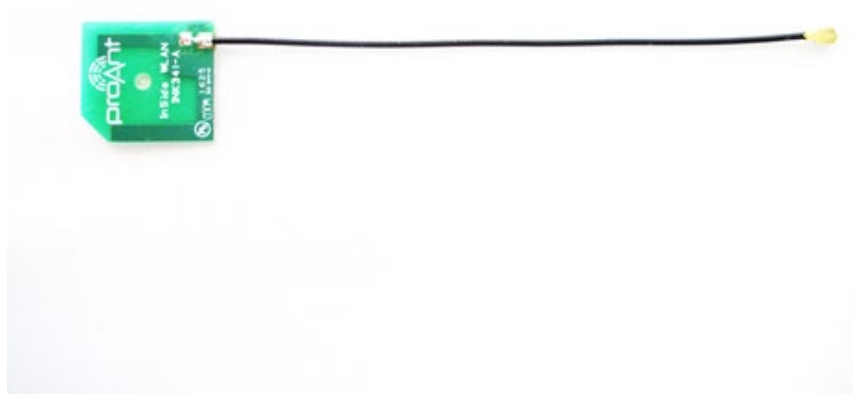
### Features

- Compact 2.4/5.5 GHz square antenna
- Thickness of 0.8 mm
- Linear Polarization
- High Gain of 3.4 dBi
- Efficiency > 40%
- Easy integration using cable and connector
- Customizable cable and Connector options

### Applications

- Wi-Fi/BT/BLE/ZigBee/ISM applications
- IoT/ M2M
- Wearables
- Automation/ Smart Home
- Healthcare Devices
- Hand-free/ PC Peripherals
- Video and surveillance

### Product Image



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### Electrical Specification

| Parameter           | Specification |             | Unit     |
|---------------------|---------------|-------------|----------|
| Operating Frequency | 2400 ~ 2500   | 5150 ~ 5850 | MHz      |
| Return Loss         | < -6.8        | < -6.4      | dB       |
| Polarization        | Linear        |             |          |
| Peak Gain           | 0.8           | 3.4         | dBi      |
| Efficiency          | >54           | >40         | %        |
| Impedance           | 50            | 50          | $\Omega$ |

### Mechanical Specification

| Parameter         | Specification    |
|-------------------|------------------|
| Antenna Dimension | 22 x 20 x 0.8 mm |
| Cable Type        | Coaxial          |
| Cable length      | 100 mm           |
| Connector Type    | MHF (F)          |
| Mounting Type     | Adhesive Tape    |

### Environmental Specification

| Parameter              | Specification  |
|------------------------|----------------|
| Operating Temperature  | -40°C to +85°C |
| MSL Level              | 1              |
| RoHS/RoHS II Compliant | Yes            |

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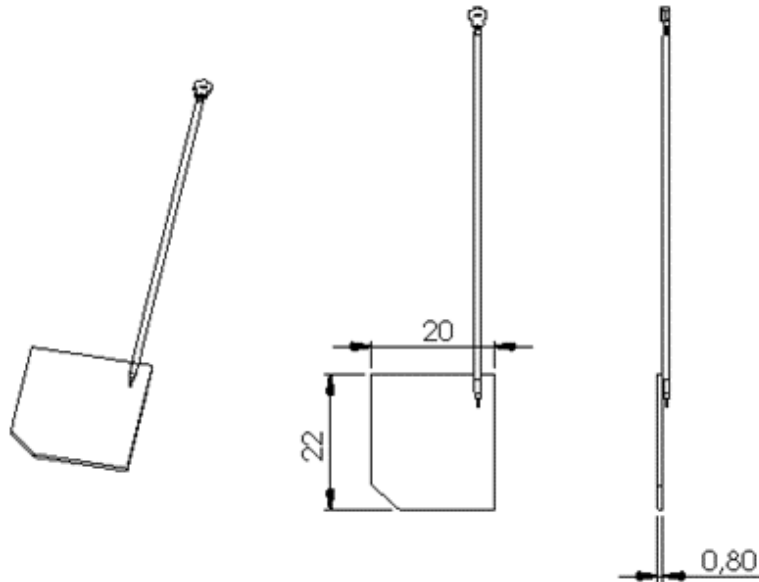


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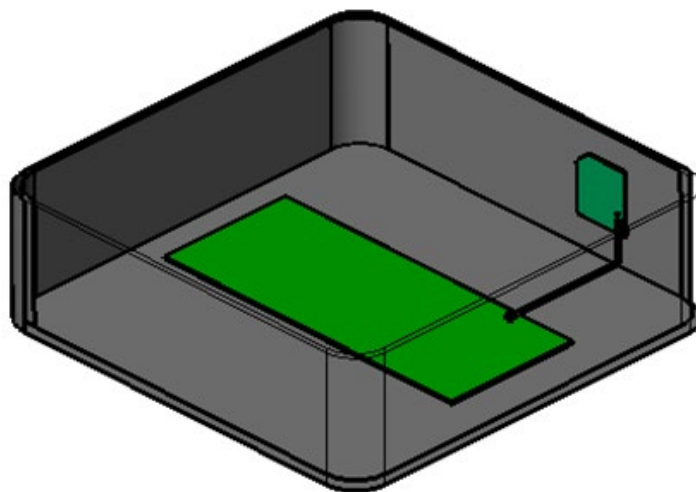
### Product Dimensions



Unit: mm

### 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



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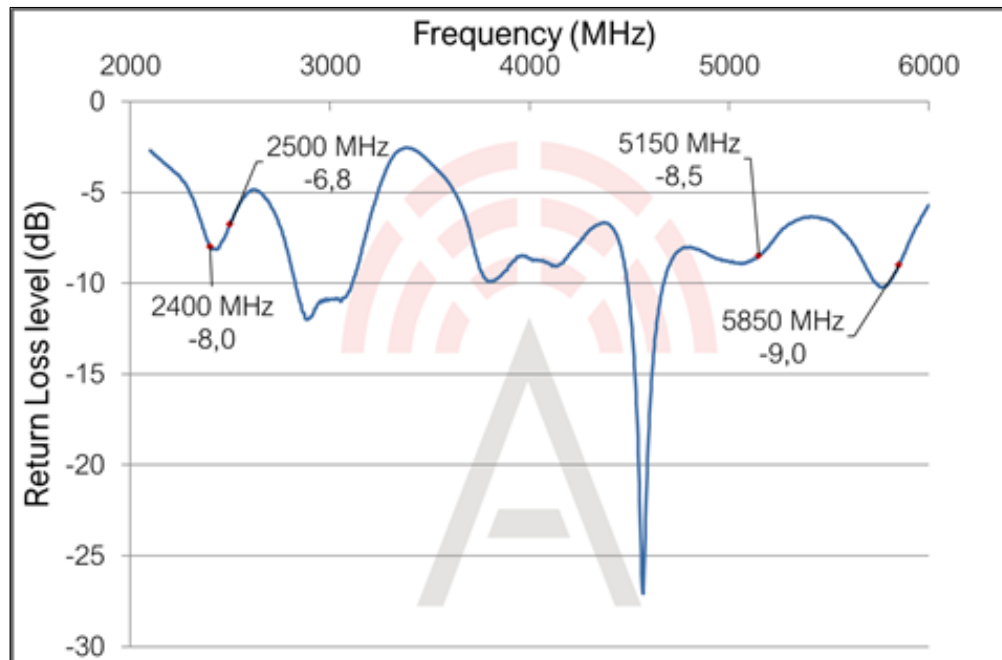


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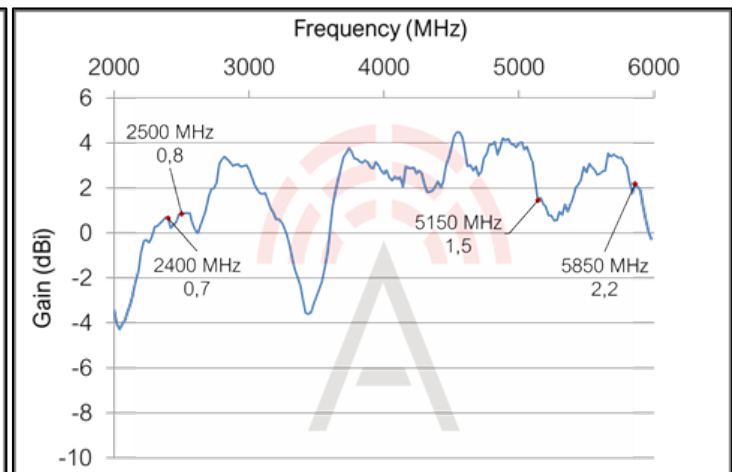
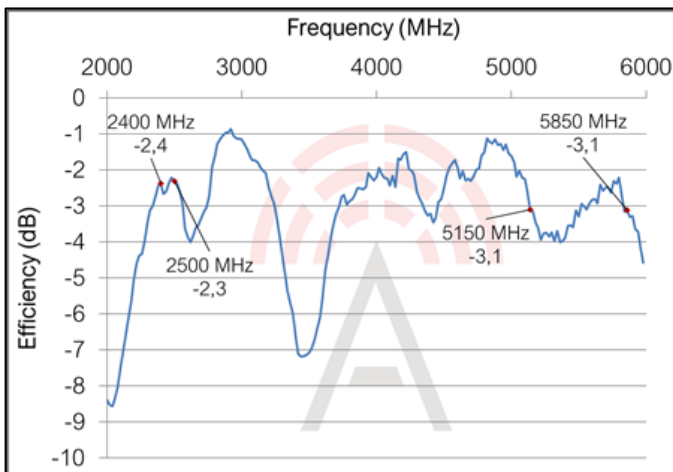
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### Return Loss



### Total Radiation Efficiency

### Maximum Radiation Gain



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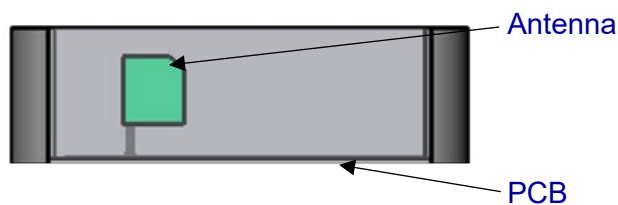
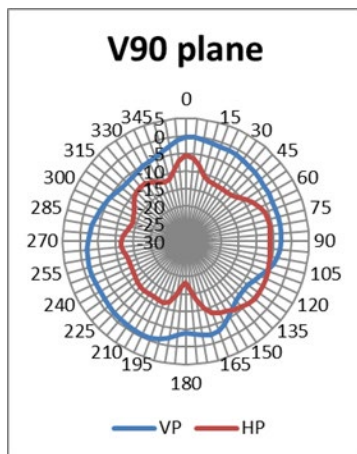
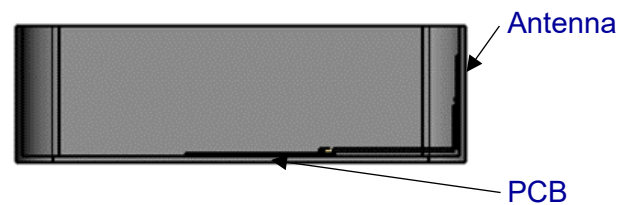
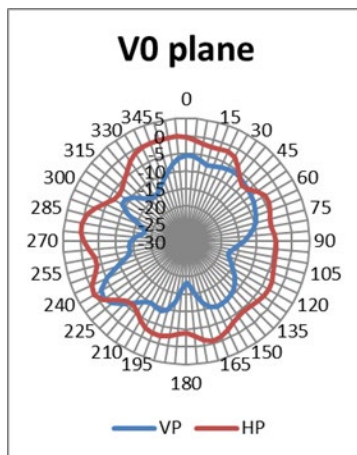
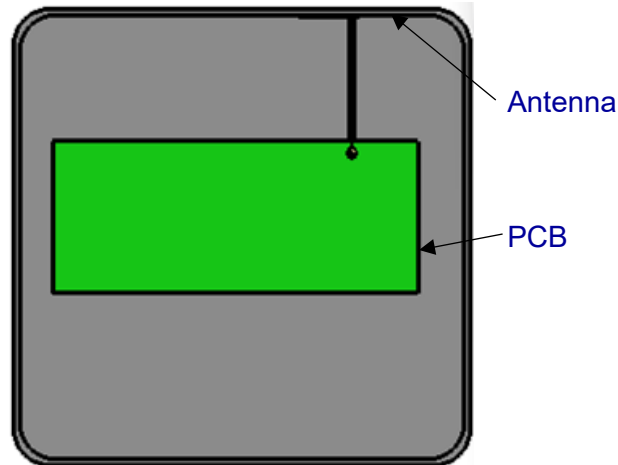
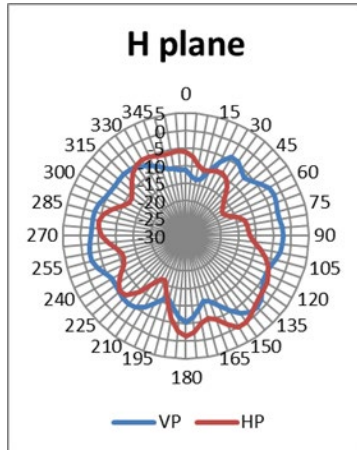


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### Radiation Characteristics - 2D Pattern (2.45 GHz)



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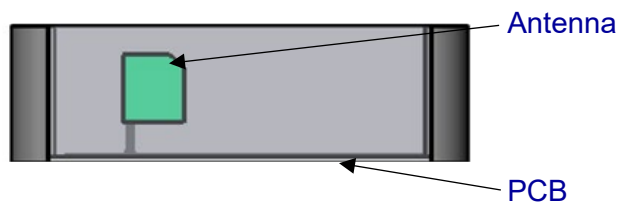
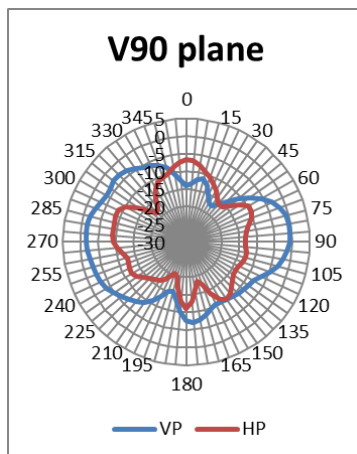
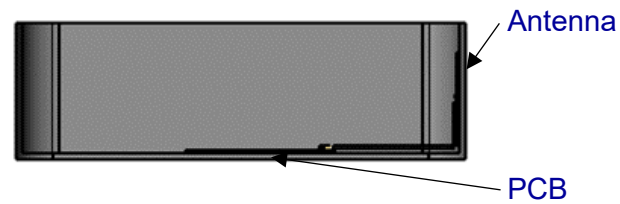
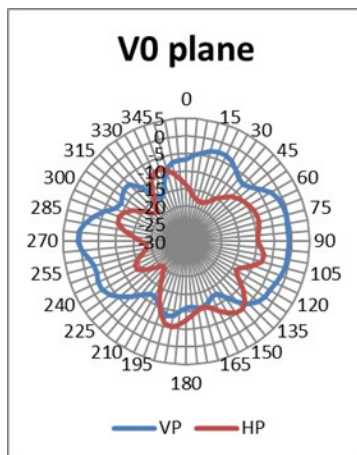
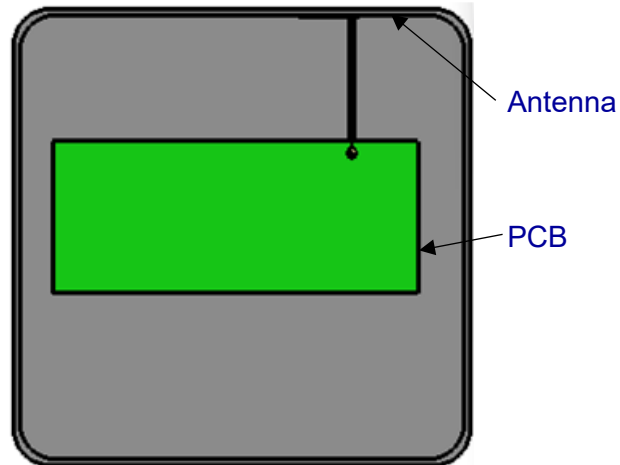
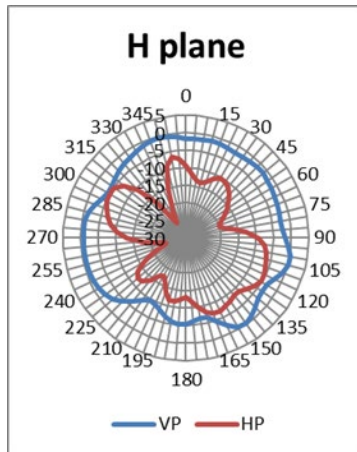


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### Radiation Characteristics - 2D Pattern (5.15 GHz)



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### Packaging Information

Pieces per bag: 100 pieces

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