

# 2.4/5.5 GHZ : WI-FI/BT/BLE Board Antenna



**PRO-IS-578**

Request Samples



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22.0 x 11.0 x 0.8mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Dual-Band coverage
- Thickness of 0.8 mm
- Linear Polarization
- Peak Gain of 2.5 dBi
- Efficiency > 33% (Lower band), >23% (Upper band)
- Easy integration using cable and connector
- Customizable cable and Connector options

## Applications

- Wi-Fi/BT/BLE applications
- IoT, M2M
- Industrial, Infrastructure IoT
- Smart Metering
- Consumer electronics
- Wireless modules
- Video and surveillance
- Broadband cellular connectivity

## Product Image



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## Electrical Specification

Parameter	Specification		Unit
Operating Frequency	2400 ~ 2500	5150 ~ 5850	MHz
Return Loss	< -4.7	< -5.1	dB
Polarization	Linear		
Peak Gain	2.5	1.6	dBi
Efficiency	>33	>23	%
Impedance	50	50	$\Omega$

## Mechanical Specification

Parameter	Specification
Antenna Dimension	22 x 11.7 x 0.8 mm
Cable Type	Coaxial
Cable length	100 mm
Connector Type	MHF-4 (F)
Mounting Type	Adhesive

## Environmental Specification

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

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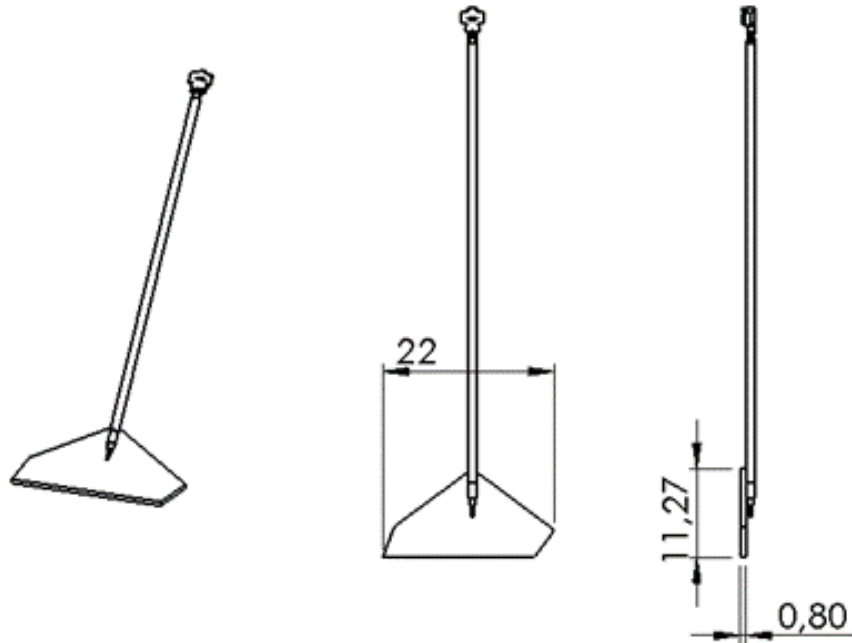


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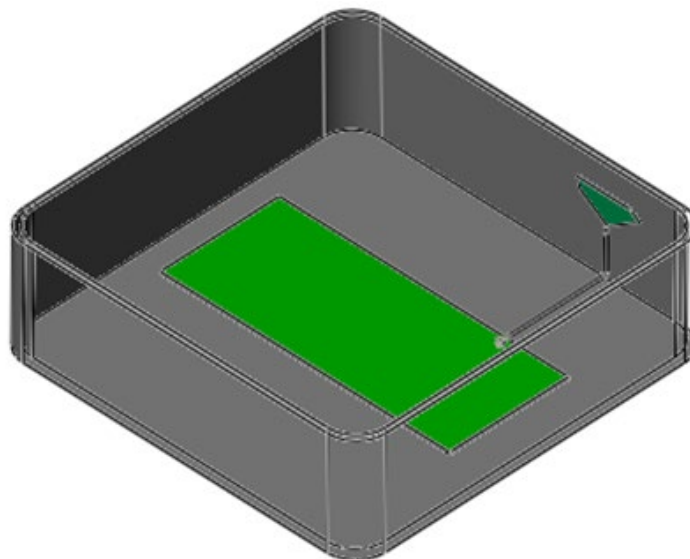
## Product Dimensions



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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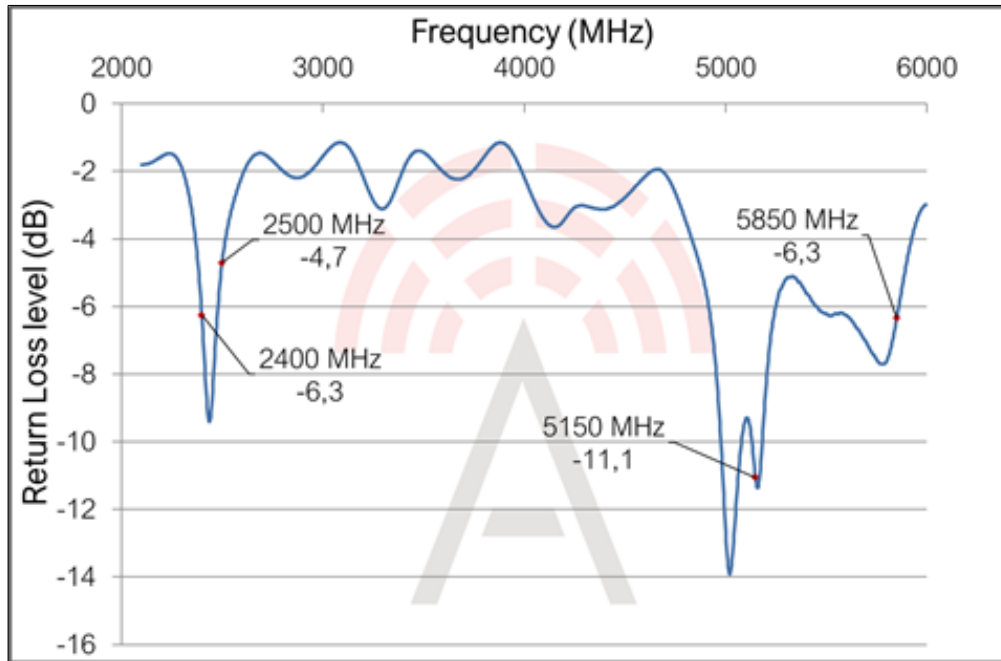


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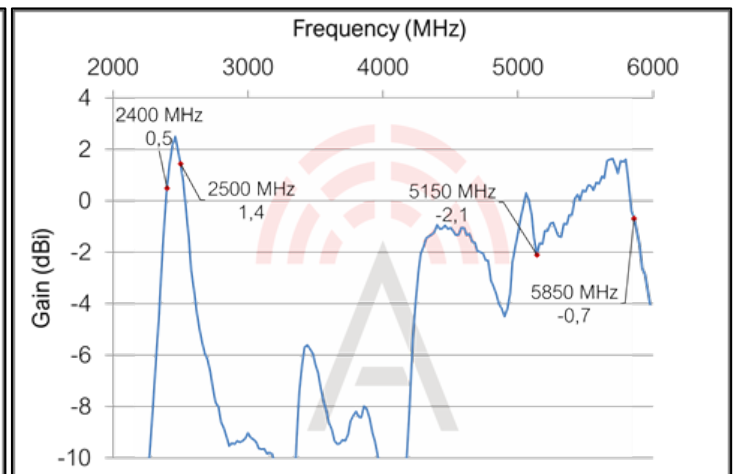
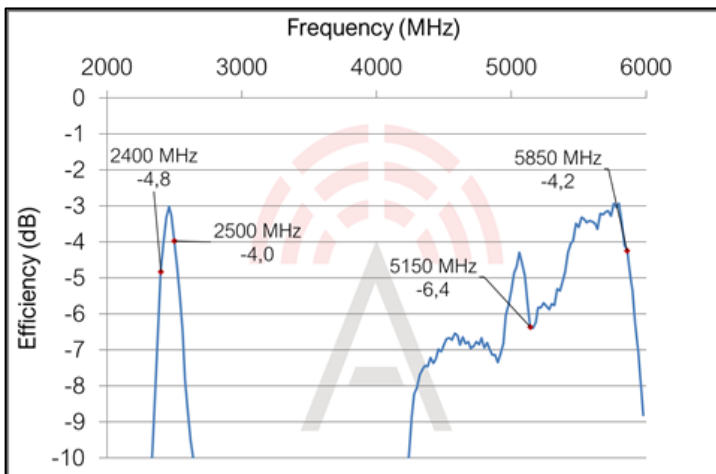
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## Return Loss



## Total Radiation Efficiency

## Maximum Radiation Gain



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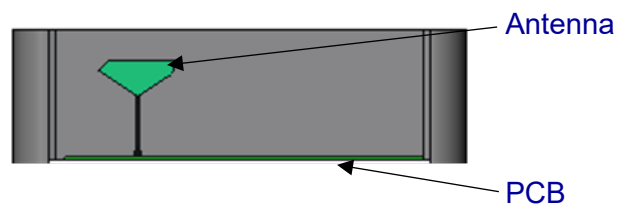
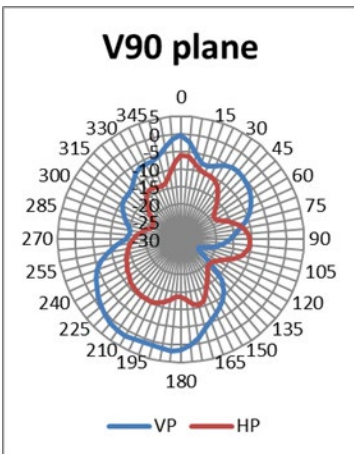
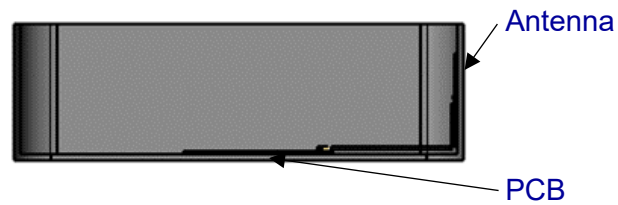
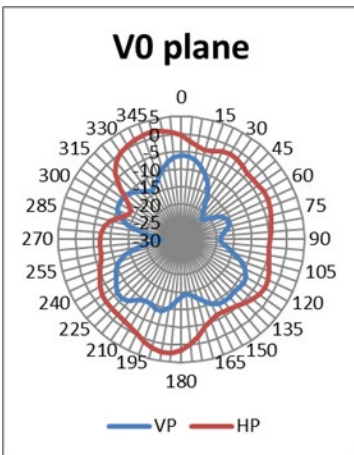
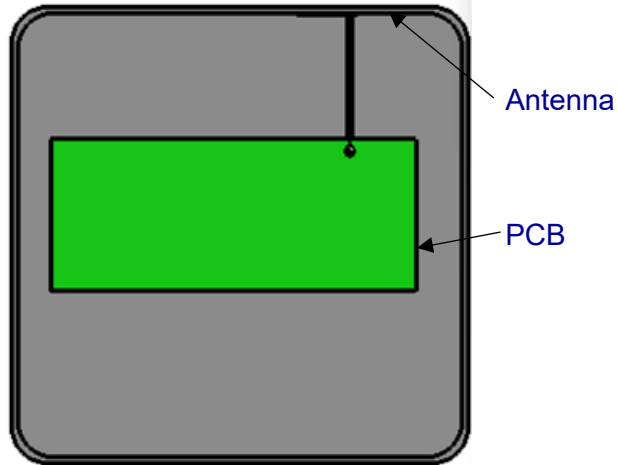
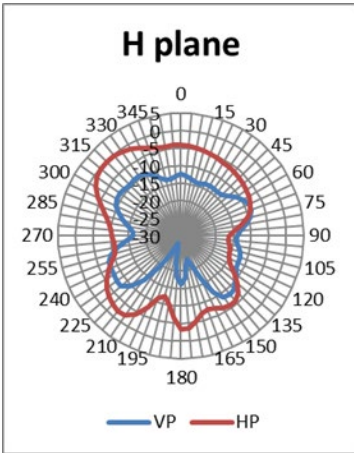


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## Radiation Characteristics - 2D Pattern (2.45 GHz)



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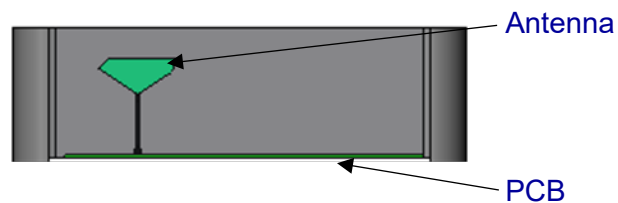
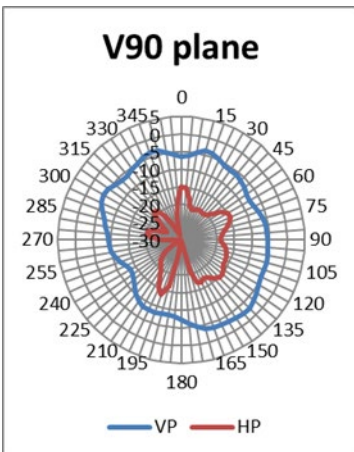
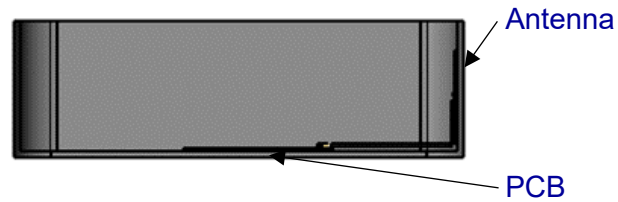
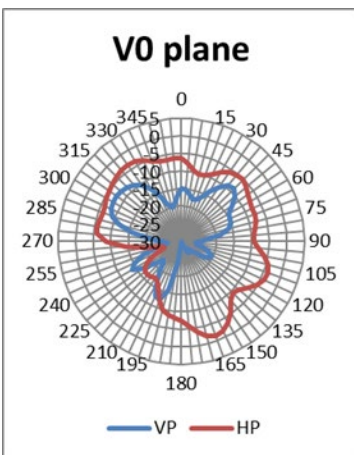
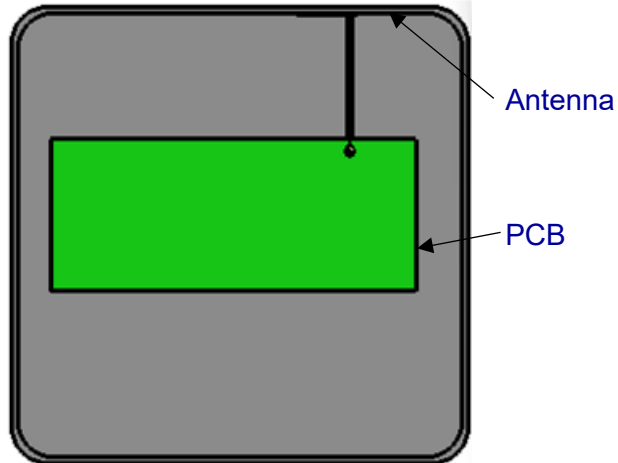
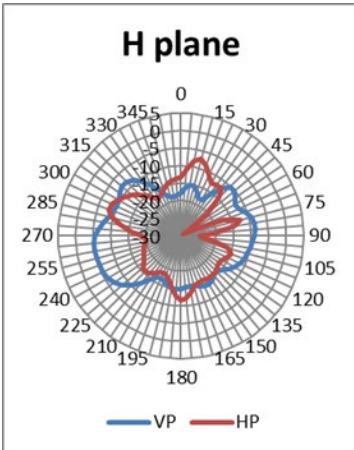


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## Radiation Characteristics - 2D Pattern (5.15 GHz)



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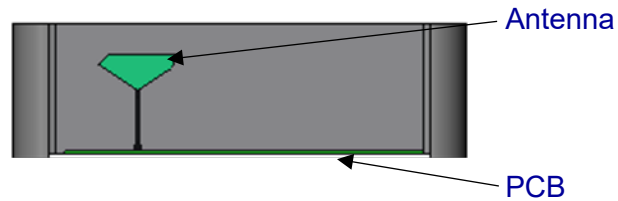
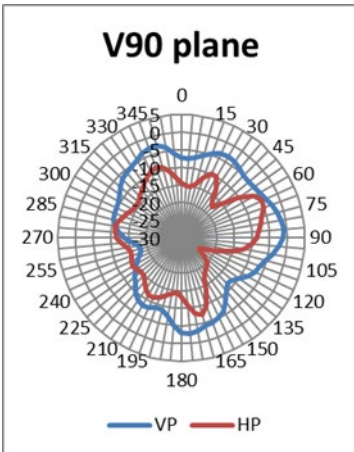
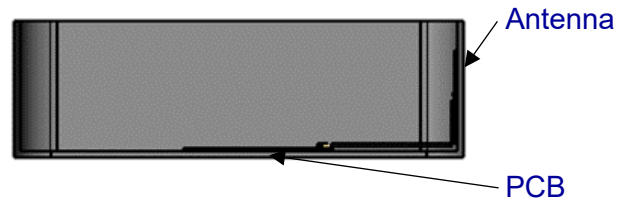
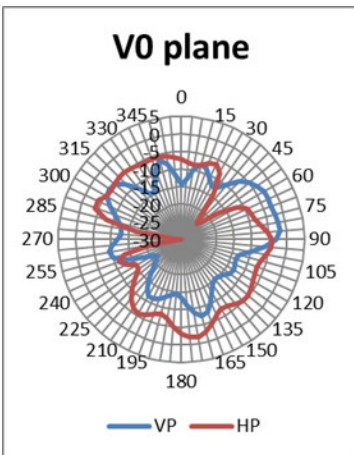
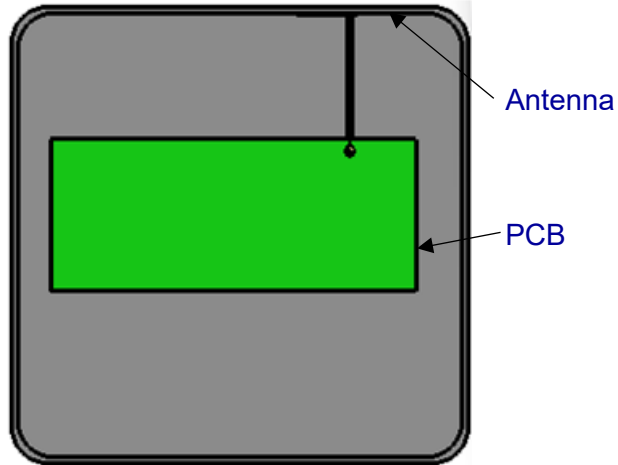
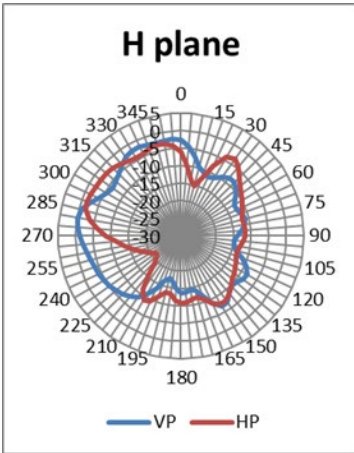


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## Radiation Characteristics - 2D Pattern (5.85 GHz)



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### Packaging Information

Pieces per bag: 100 pieces

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