

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



PRO-IS-579

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

- WiFi/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	Ω

Mechanical Specification

Parameter	Specification
Antenna Dimension	22 x 20 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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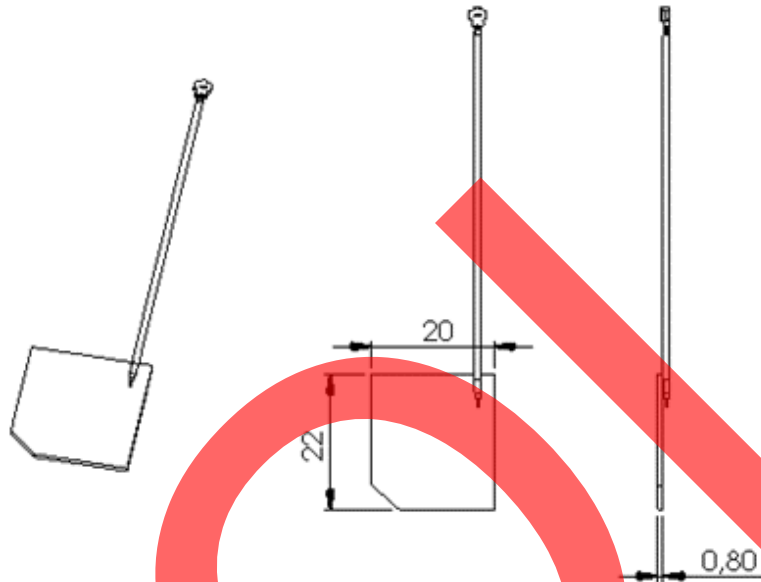


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22.0 x 20.0 x 0.8mm
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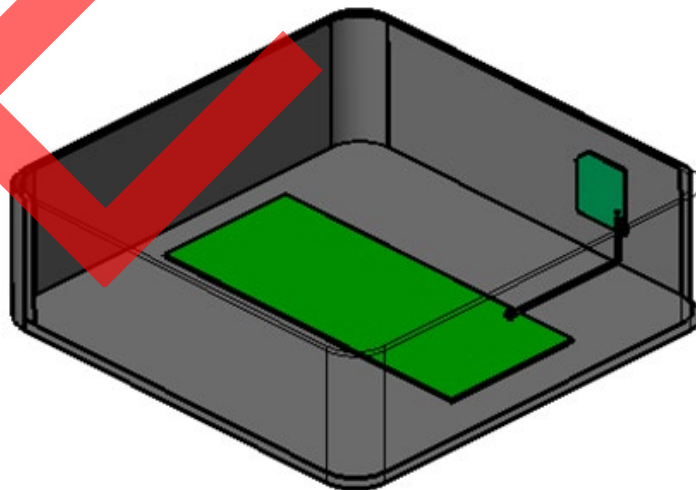
Product Dimensions



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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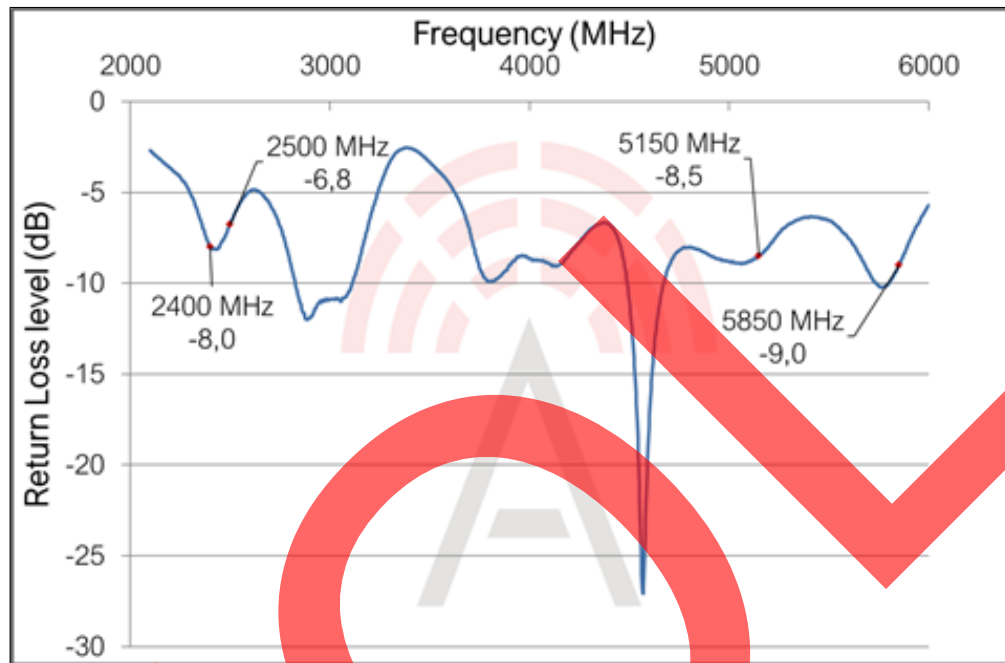


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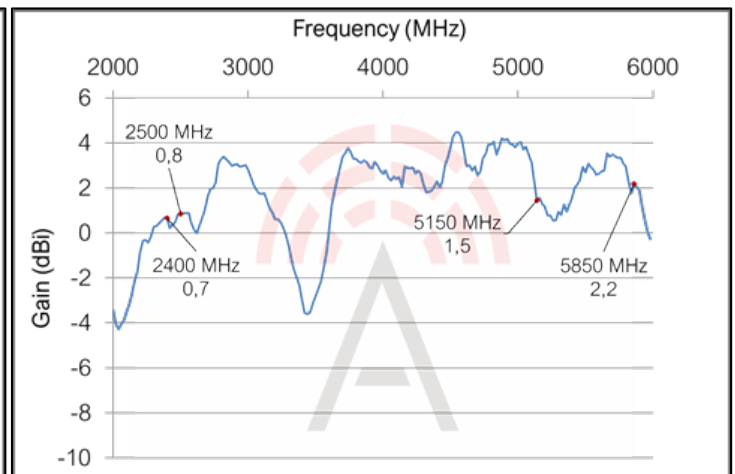
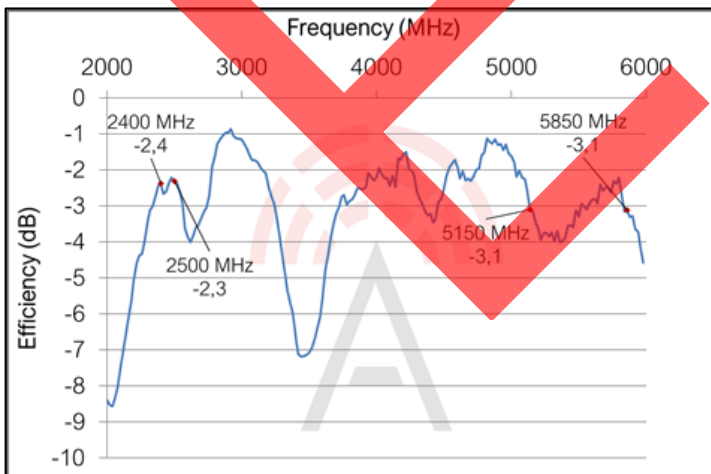
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Return Loss



Total Radiation Efficiency

Maximum Radiation Gain



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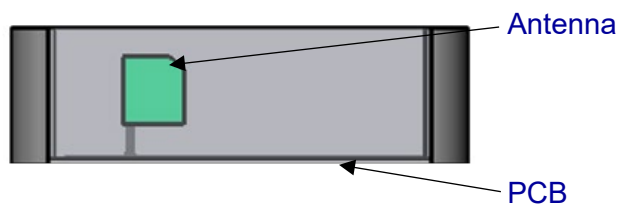
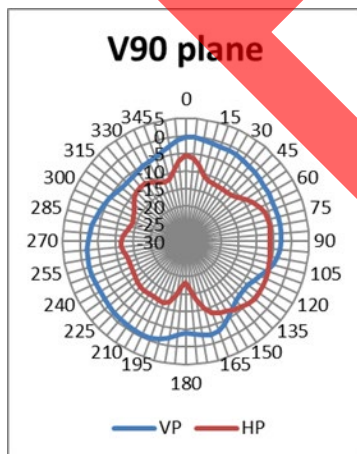
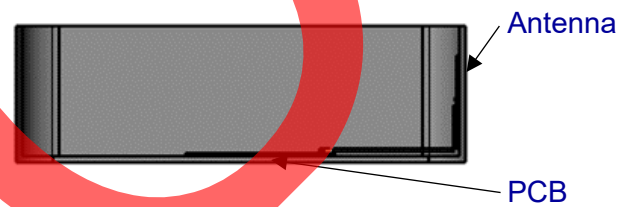
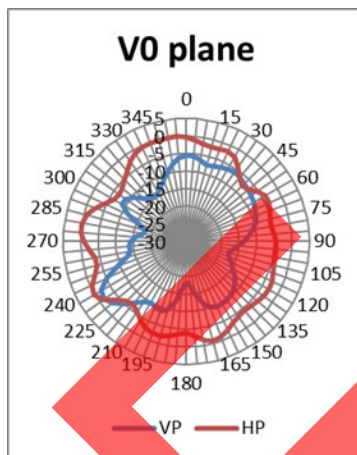
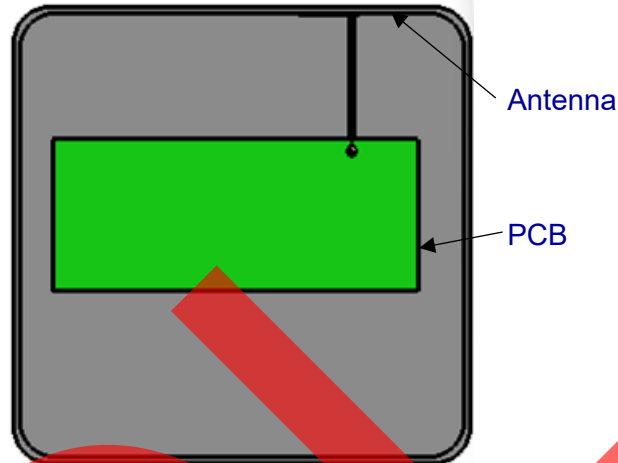
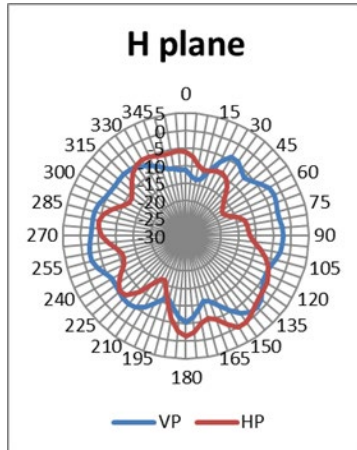


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22.0 x 20.0 x 0.8mm
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Radiation Characteristics - 2D Pattern (2.45 GHz)



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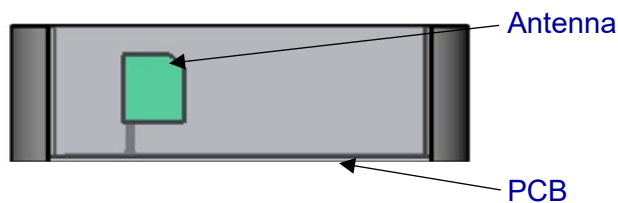
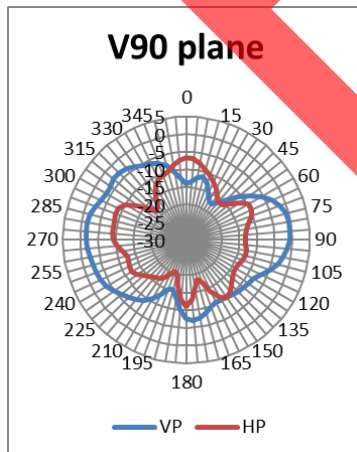
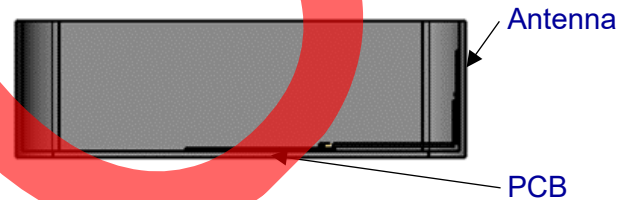
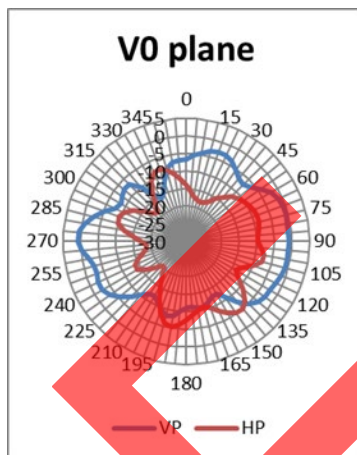
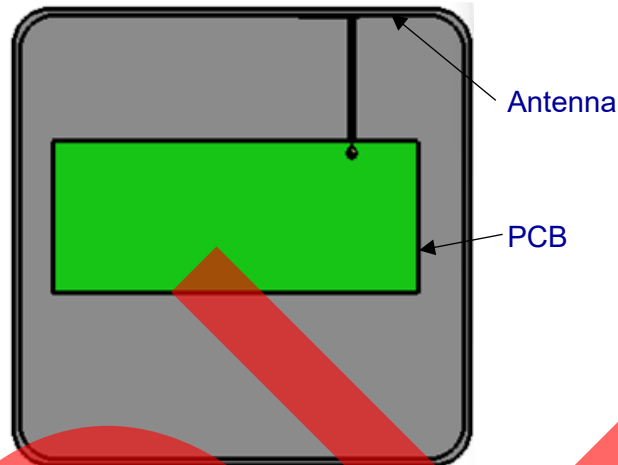
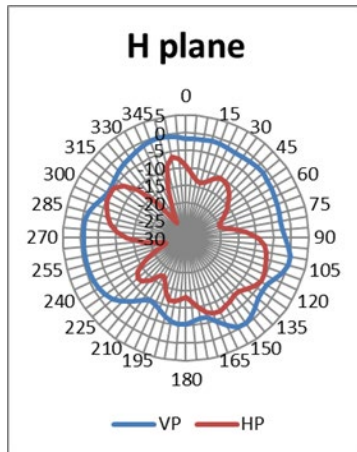


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22.0 x 20.0 x 0.8mm
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Radiation Characteristics - 2D Pattern (5.15 GHz)



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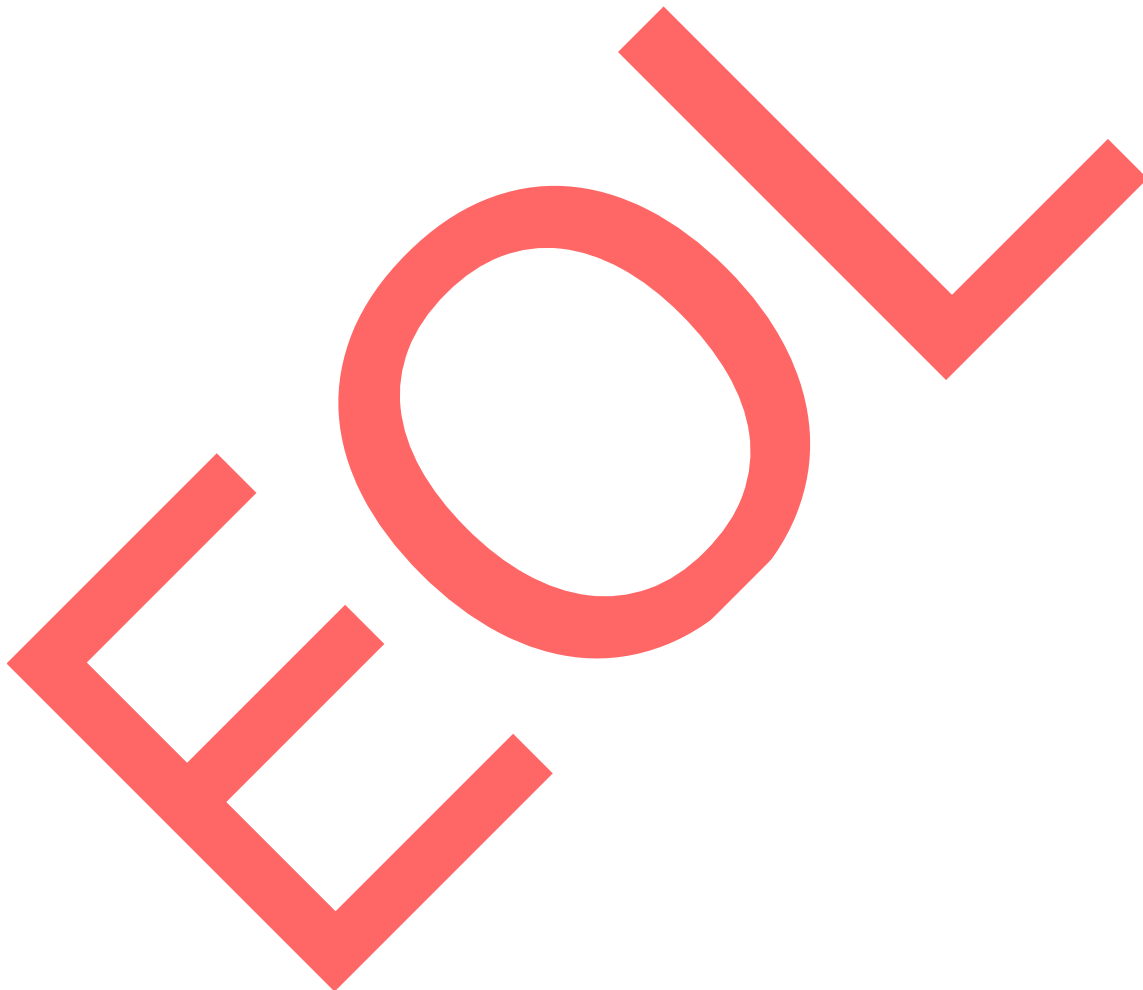
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Packaging Information

Pieces per bag: 100 pieces



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