

2.4/5GHz OnBoard WLAN SMD - Antenna

PRO-OB-536

Request Samples



Check Inventory



14.20 x 6.60 x 2.50 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Compact
- Profile of 2.5 mm
- Mixed Linear Polarization
- Peak Gain of 2.7 dBi
- Efficiency > 44%
- Surface Mount
- Durable-Shelf life of up to 10 years

Applications

- 2.4/5 GHz
 - Wi-Fi/BT/BLE/ZigBee/ISM
- IoT, M2M
- Telemetry
- Wireless Remote Control
- Personal Area Networks (PAN)
- Industrial/Commercial Equipment



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Electrical Specification

Parameter	Specification		Unit
Operating Frequency	2400 - 2500	5150 - 5850	MHz
Center Frequency	2450	5500	
Return Loss	< -6.2	< -3.2	dB
Polarization	Mixed Linear		-
Peak Gain	1.7	2.7	dBi
Efficiency	> 51	> 44	%
Impedance	50		Ω

Note: All measurements were conducted on the evaluation board in free space. Performance will vary depending on the ground plane, application, and environment.

Mechanical Specification

Parameter	Specification
Antenna Dimension	14.20 x 6.60 x 2.50 mm
Evaluation board Dimension	47 x 17 mm
Mounting Type	Surface Mount

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +125°C
Storage Temperature	
Maximum Temperature	
RoHS Compliance	Yes Compliant with EU directive 2011/65/EU and 2015/863
Shelf life	10 years
MSL	Level 1, unlimited
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, Fc test Immunity to shock IEC/EN 60068-2-27, Ea test

Note: •The product has been tested according to the standard IEC 60721-3-5 – Class 5M3 (road vehicles in areas without well-developed road systems, light-weighted vehicles, tracked vehicles and self-propelled machines).



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Measurement Setup

The antenna measurements were all done in free space with the OnBoard WLAN SMD evaluation board (PRO-EB-550) that has a PCB size of 47 x 17 mm.

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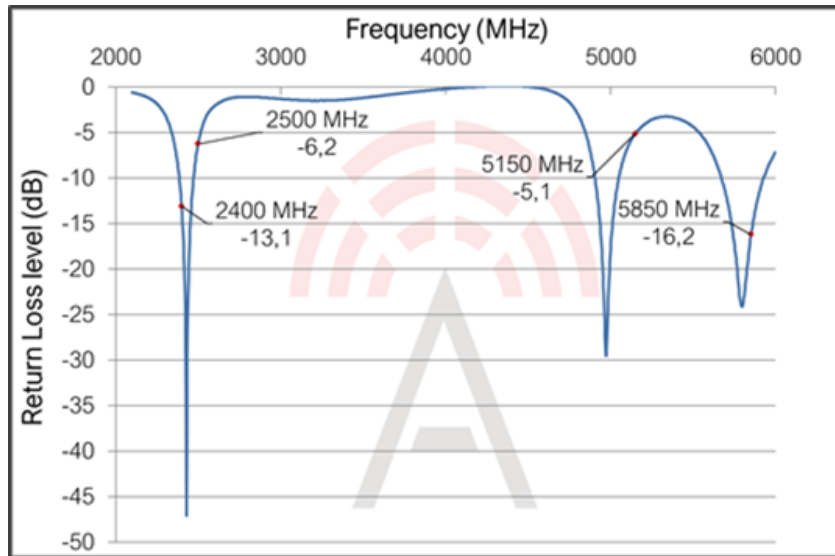


Check Inventory

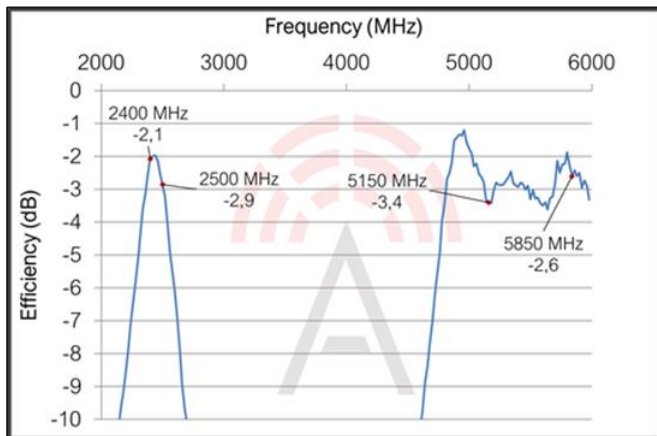


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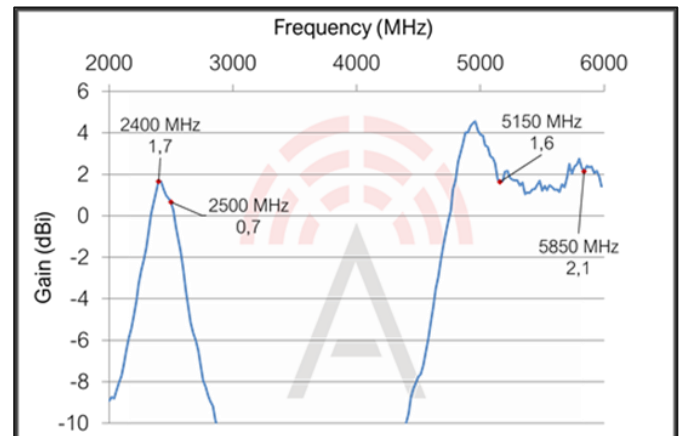
Reflection Characteristics – Return Loss



Total Radiation Efficiency



Maximum Radiation Gain



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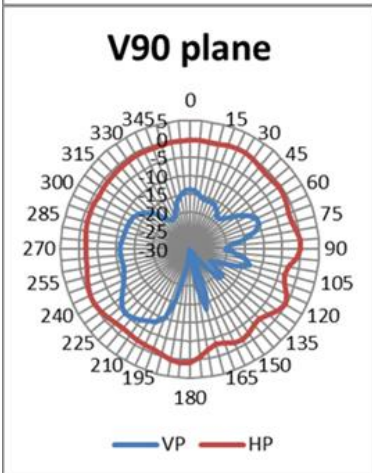
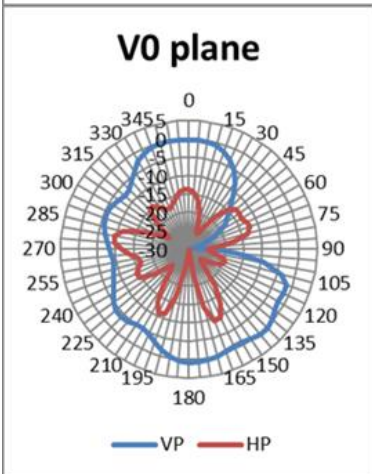
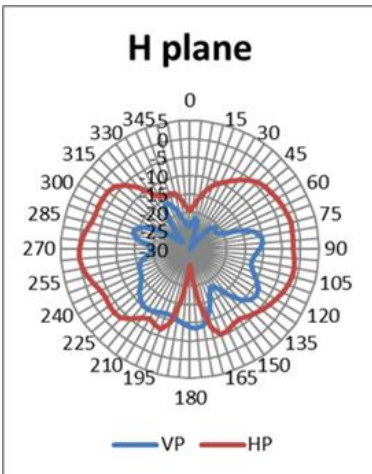


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14.20 x 6.60 x 2.50 mm
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Radiation Characteristics – 2D Pattern (2450 MHz)



VP: Vertical Polarization
HP: Horizontal Polarization

Unit: dBi



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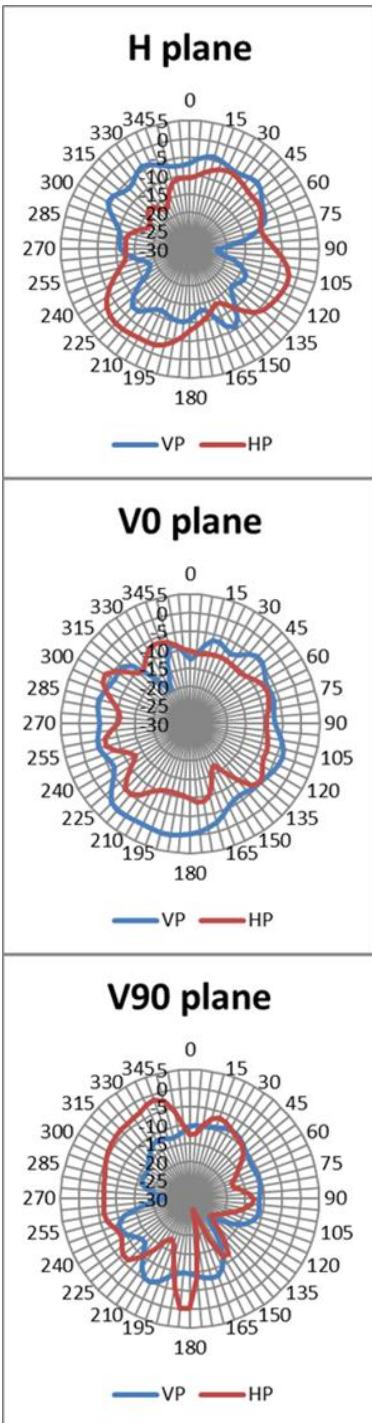


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Radiation Characteristics – 2D Pattern (5150 MHz)



Unit: dBi



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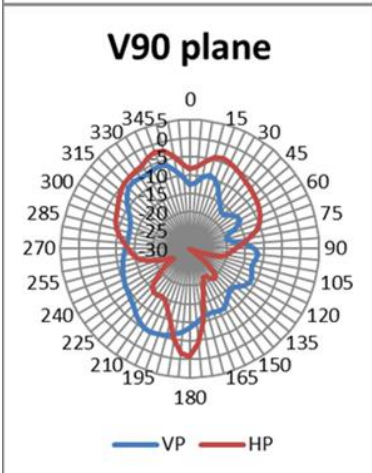
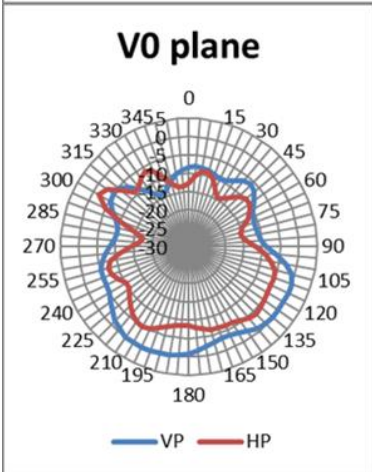
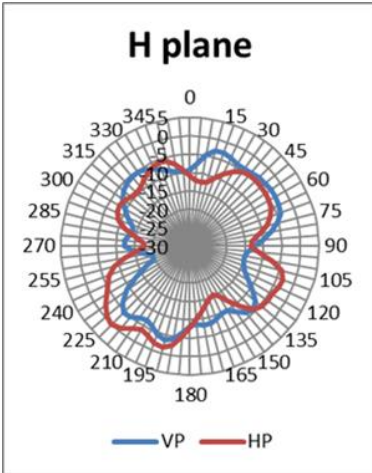


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14.20 x 6.60 x 2.50 mm
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Radiation Characteristics – 2D Pattern (5850 MHz)



VP: Vertical Polarization
HP: Horizontal Polarization

Unit: dBi



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