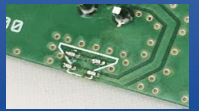


2.4GHz – ProAnt Niche Antenna



PRO-EB-592

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8.0 x 4.0 mm

RoHS/RoHS II Compliant

MSL Level = 1

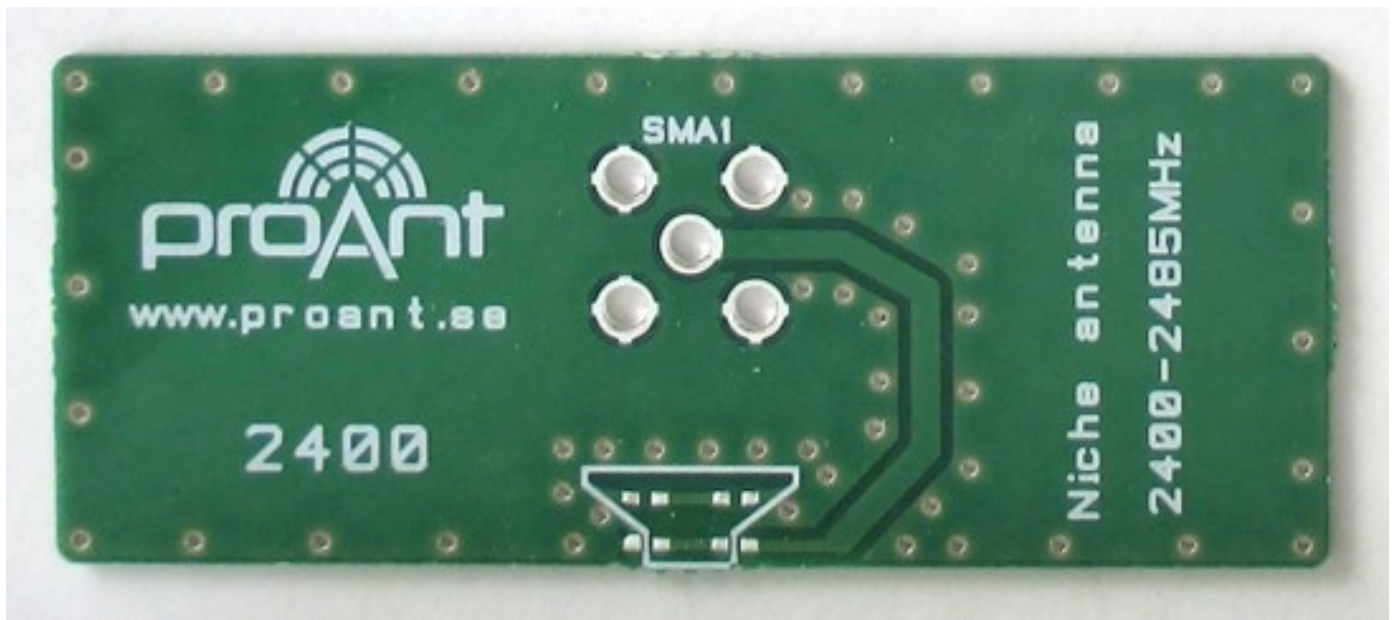
Features

- Very low cost, Patented Technology
- Business Model : License Agreement
- Compact
- Highly efficient ($\eta > 83\%$)
- Low Return Loss (RL < -12 dB)
- Integration : Along PCB Edge

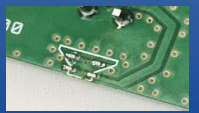
Applications

- 2.4 GHz - BT/BLE/ZigBee/ISM Applications
- IoT, M2M
- Wearables
- Wireless Remote Control
- Personal Area Networks (PAN)
- Industrial/Commercial equipments

Product Image



2.4GHz – ProAnt Niche Antenna



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Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	2400		2500	GHz
Center Frequency		2450		
Return Loss			-12.3	dB
Polarization	Linear			
Peak Gain			4.1	dBi
Efficiency	83			%
Impedance		50		Ω

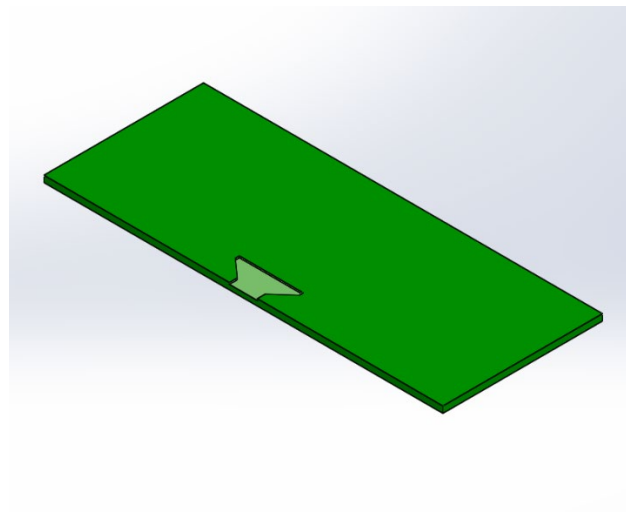
Note: All test measurements were conducted with the antenna on a 50 x 20 mm Evaluation board. Please note that the performance is dependent on the ground plane dimensions, tuning components and application environment.

Mechanical Specification

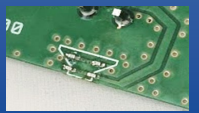
Parameter	Specification
Antenna Dimension	8 x 4 mm
Evaluation board Dimension	50 x 20 mm
Mounting Type	Directly engraved on PCB

Measurement Setup

The antenna measurements were done in free space, with the antenna implemented on a 20 x 50 mm PCB.



2.4GHz – ProAnt Niche Antenna



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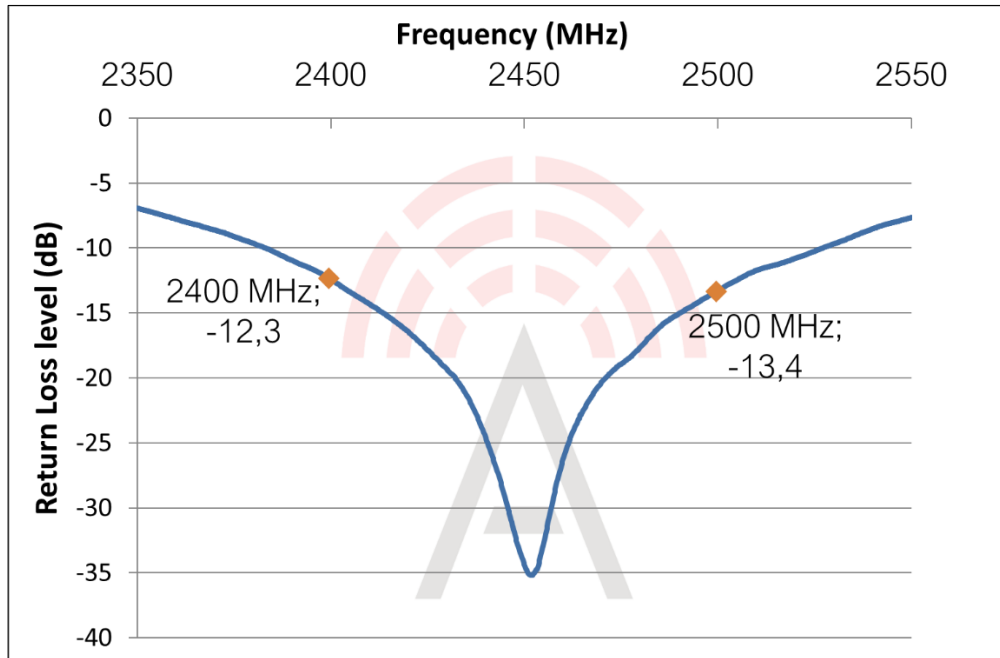


8.0 x 4.0 mm

RoHS/RoHS II Compliant

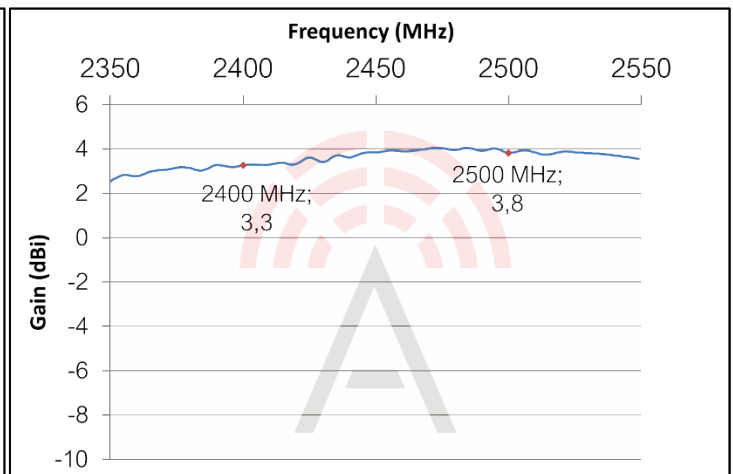
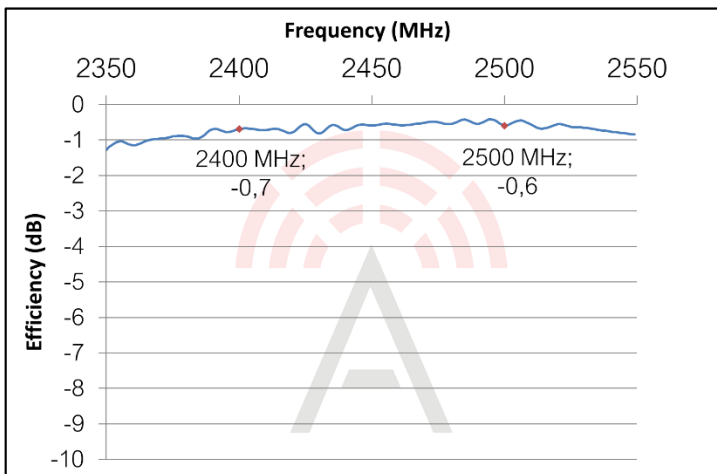
MSL Level = 1

Reflection Characteristics - Return Loss



Total Radiation Efficiency

Maximum Radiation Gain

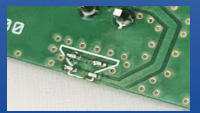


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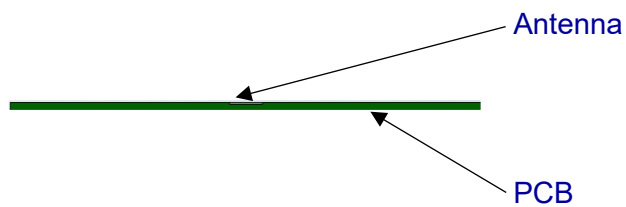
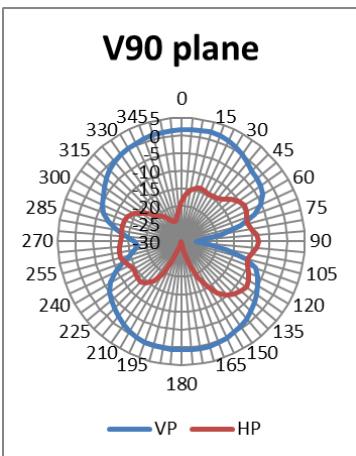
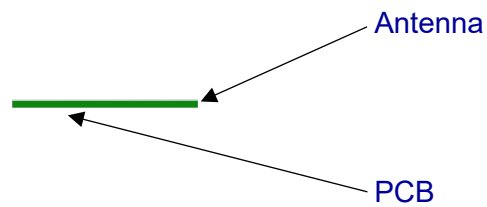
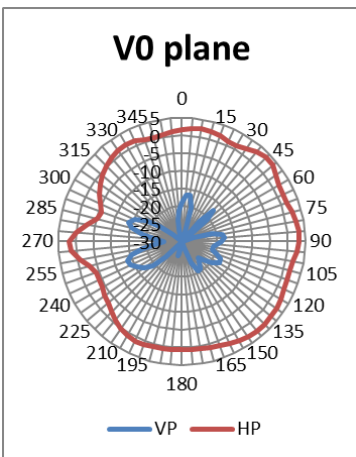
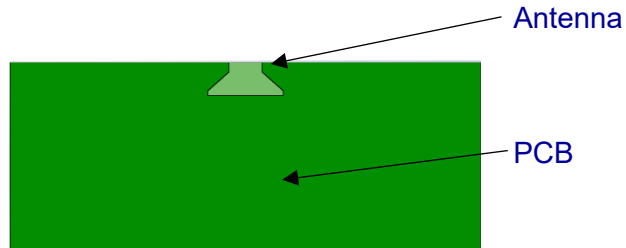
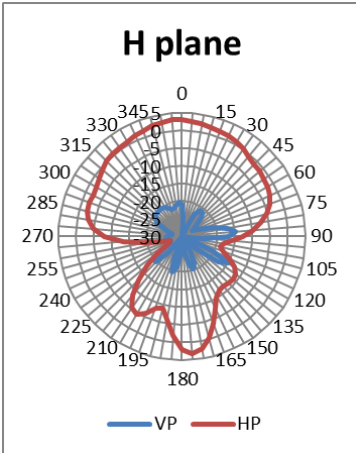


8.0 x 4.0 mm

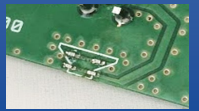
RoHS/RoHS II Compliant

MSL Level = 1

Radiation Characteristics - 2D Pattern (2.45 GHz)



2.4GHz – ProAnt Niche Antenna



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RoHS/RoHS II Compliant

MSL Level = 1

Licensing Information

License agreement information, terms and conditions, and design advice are provided upon request. Please send all requests to info@proant.se

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