

# GNSS – ProAnt Niche Antenna



**PRO-EB-593**

Request Samples



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12.0 x 6.0 mm

MSL Level = N/A

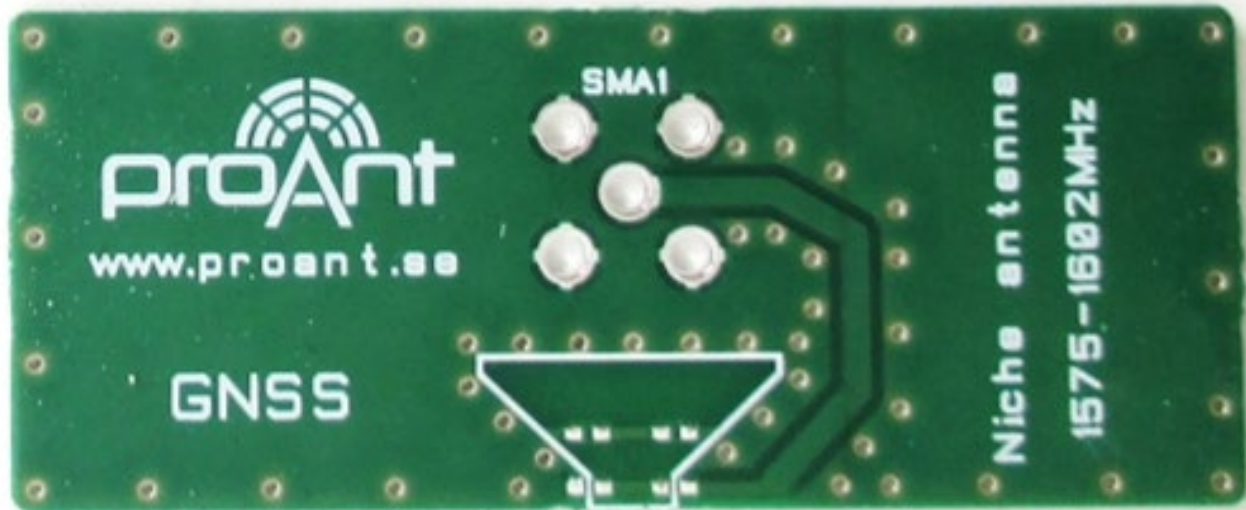
## Features

- Very low cost, Patented Technology
- Business Model: License Agreement
- Compact
- Highly efficient ( $\eta > 65\%$ )
- Low Return Loss (RL < -8.2 dB)
- Integration: Along PCB Edge

## Applications

- GNSS – GPS/GLONASS/BeiDou Applications
- IoT, M2M
- Wearables
- Asset Tracking
- Remote Control
- Industrial/Commercial equipment

## Product Image





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## Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	1559		1602	MHz
Center Frequency		1580.5		
Return Loss			-8.2	dB
Polarization	Linear			
Peak Gain			2	dBi
Efficiency	65			%
Impedance		50		$\Omega$

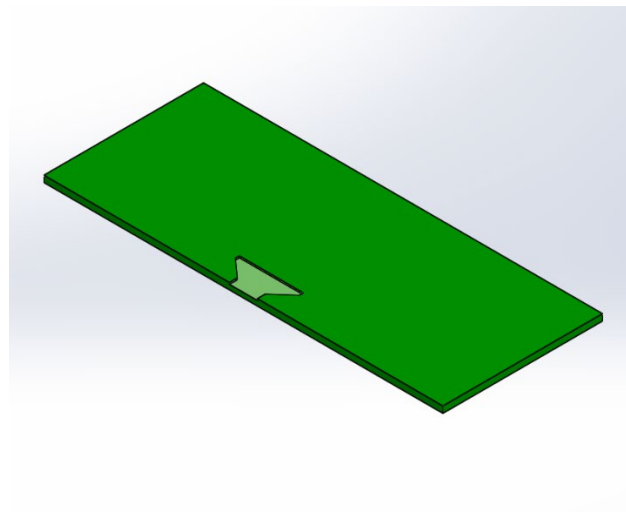
Note: All test measurements were conducted with the antenna on a 50 x 20 mm Evaluation board. Please note that the performance is dependent on the ground plane dimensions, tuning components and application environment.

## Mechanical Specification

Parameter	Specification
Antenna Dimension	12 x 6 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.





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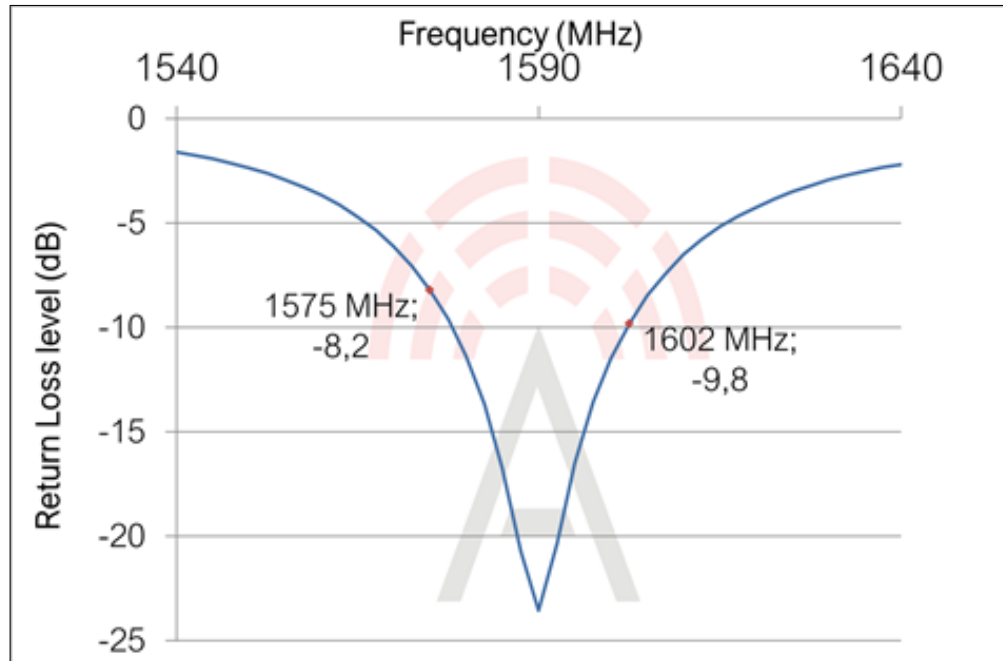
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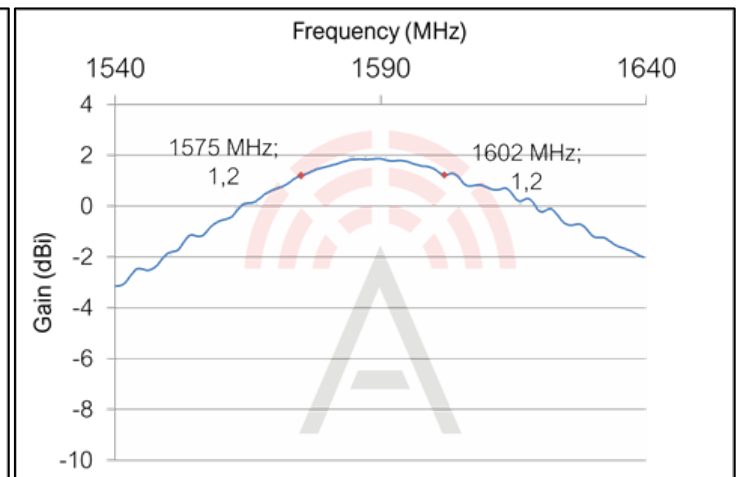
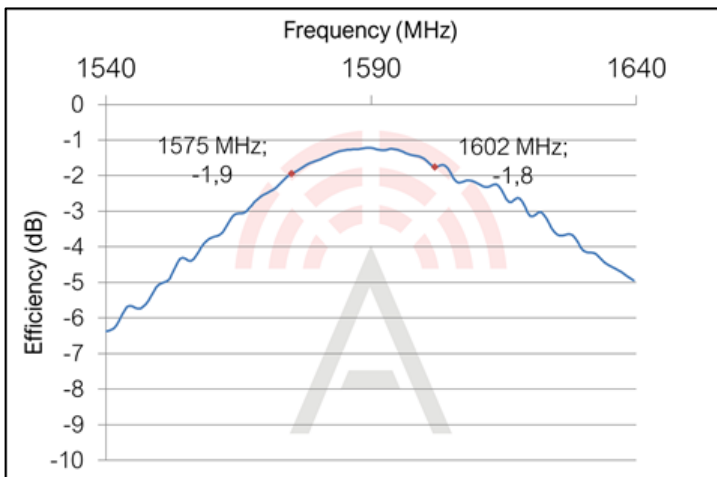
MSL Level = N/A

## Reflection Characteristics - Return Loss



## Total Radiation Efficiency

## Maximum Radiation Gain





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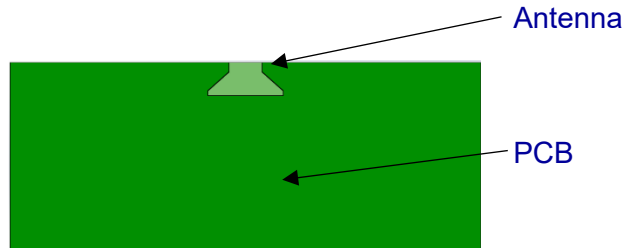
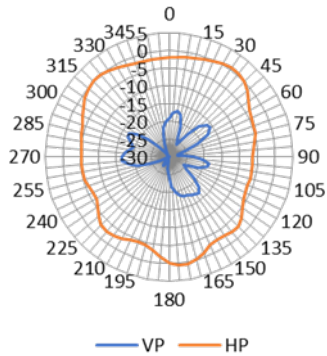


12.0 x 6.0 mm

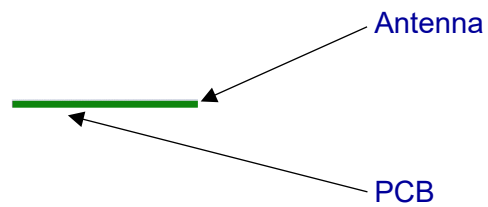
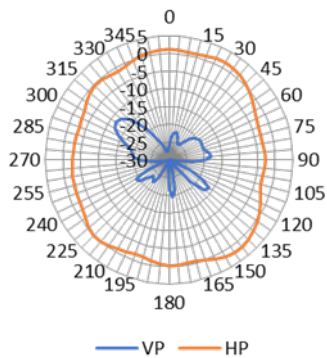
MSL Level = N/A

## Radiation Characteristics - 2D Pattern (1590 MHz)

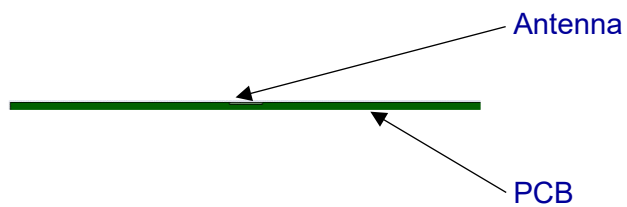
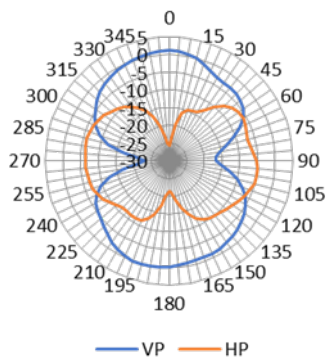
### H plane



### V0 plane



### V90 plane



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## Licensing Information

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License agreement information, terms and conditions, and design advice are provided upon request. Please send all requests to [info@proant.se](mailto:info@proant.se)

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