

5GHz (3.5 GHz) – ProAnt Niche Antenna



PRO-EB-595

Request Samples



Check Inventory



8.0 x 4.0 mm

MSL Level = N/A

Features

- Very low cost, Patented Technology
- Business Model: License Agreement
- Ultra-Compact
- Highly efficient ($\eta > 60\%$)
- Low Return Loss (RL < -6.7 dB)
- Integration: Along PCB Edge

Applications

- 5 GHz Applications
- IoT, M2M
- Wearables
- Wireless Remote Control
- Smart Home/Building
- Personal Area Networks (PAN)
- Industrial/Medical/Commercial/Automotive equipment
- 5G NR, CBRS, Private LTE, CAT M, NB-IoT applications

Product Image



5GHz (3.5 GHz) – ProAnt Niche Antenna



PRO-EB-595

Request Samples



Check Inventory



8.0 x 4.0 mm

MSL Level = N/A

Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	3400		3800	MHz
Return Loss			-6.7	dB
Polarization	Linear			
Peak Gain			3.4	dBi
Efficiency	60			%
Impedance		50		Ω

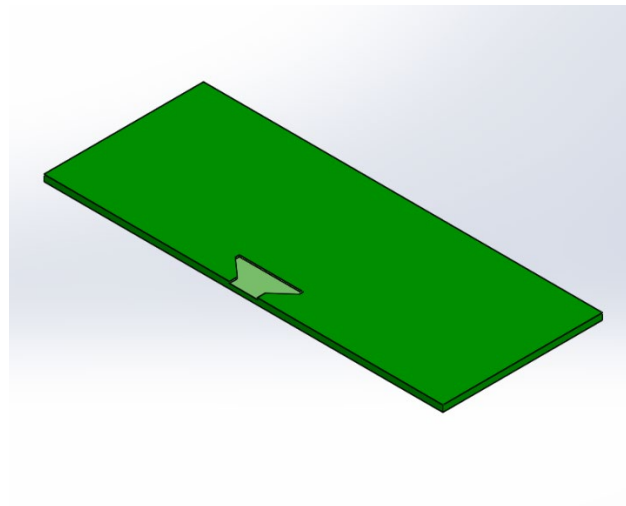
Note: All test measurements were conducted with the antenna on a 50 x 20 mm Evaluation board. Please note that the performance is dependent on the ground plane dimensions, tuning components and application environment.

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.



5GHz (3.5 GHz) – ProAnt Niche Antenna



PRO-EB-595

Request Samples



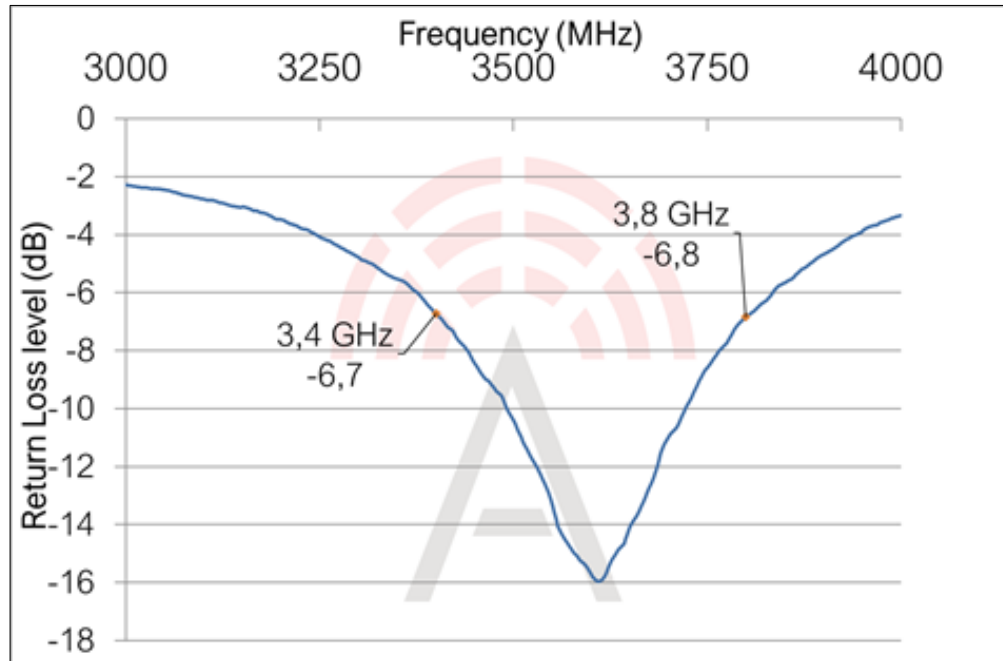
Check Inventory



8.0 x 4.0 mm

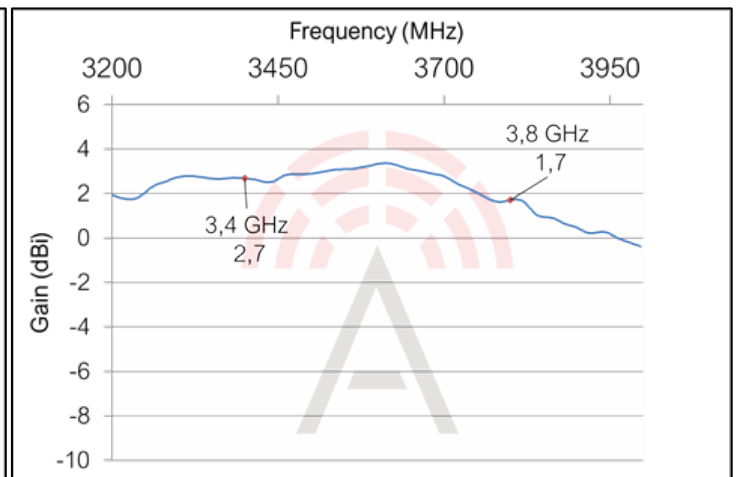
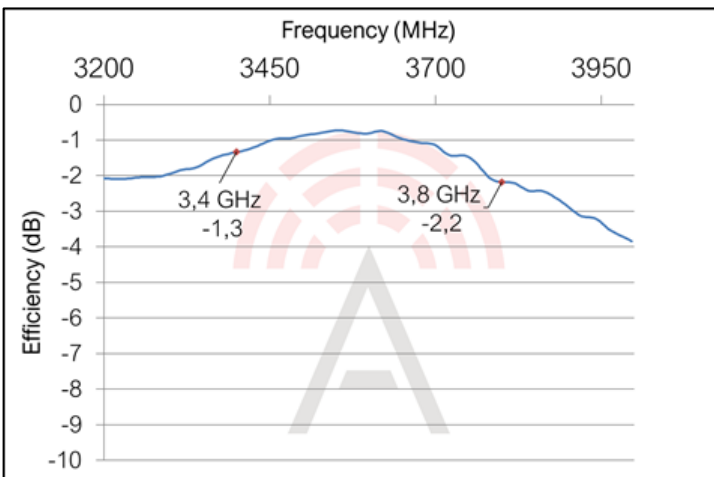
MSL Level = N/A

Reflection Characteristics - Return Loss



Total Radiation Efficiency

Maximum Radiation Gain



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-29-21

ABRACON IS
ISO9001-2015
CERTIFIED

5GHz (3.5 GHz) – ProAnt Niche Antenna



PRO-EB-595

Request Samples



Check Inventory

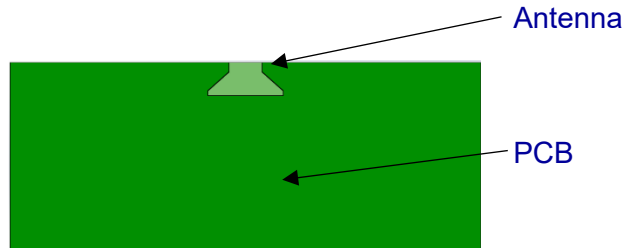
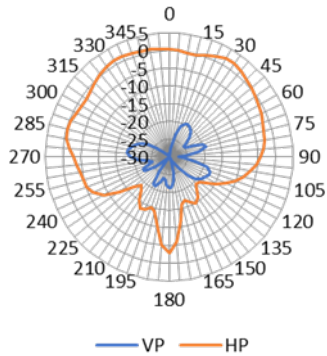


8.0 x 4.0 mm

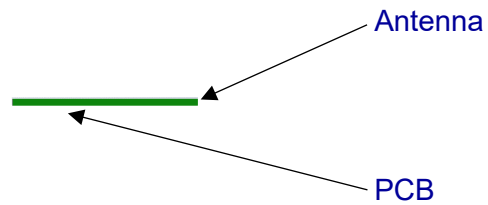
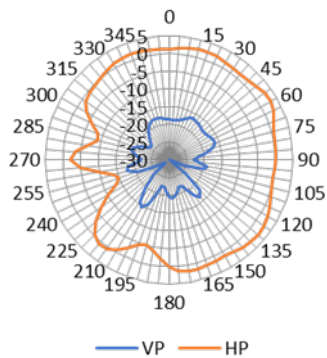
MSL Level = N/A

Radiation Characteristics - 2D Pattern (3.6 GHz)

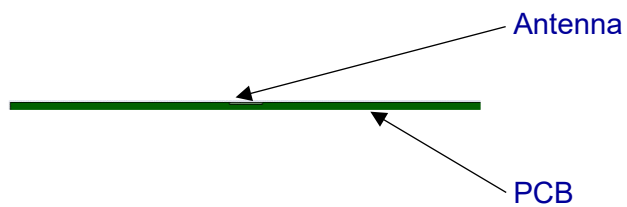
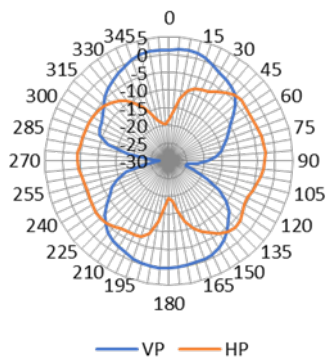
H plane



V0 plane



V90 plane



5GHz (3.5 GHz) – ProAnt Niche Antenna

PRO-EB-595

Licensing Information

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

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-29-21

ABRACON IS
ISO9001-2015
CERTIFIED