
General information

This Proant patented Niche antenna, is a miniature PCB integrated antenna covering the 5G frequencies 3,4-3,8 GHz. The antenna technology is licensed from, and used by permission of, Proant AB.



Technical data

Frequency	3,4-3,8 GHz
Return loss	< -6,7 dB (on Proant evaluation board)
Total efficiency	> -2,2 dB (60%) (on Proant evaluation board)
Gain	Max 3,4 dBi (on Proant evaluation board)
Dimensions	4 x 8 mm
Mounting	Integrated in PCB

Application examples

Mobile accessories

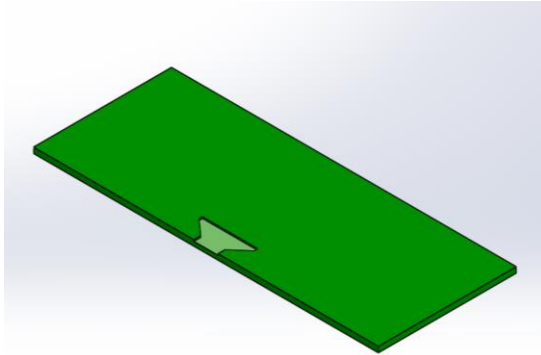
Wearable devices

IoT devices

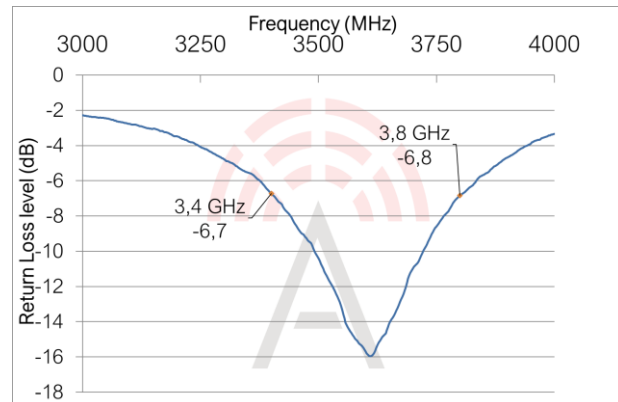
Alarms

Electrical performance

Measurement setup

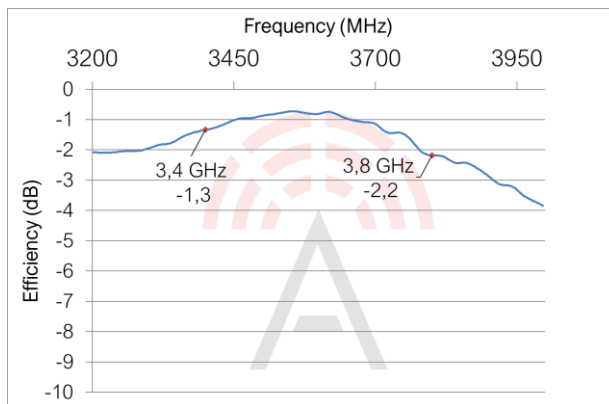


Return loss

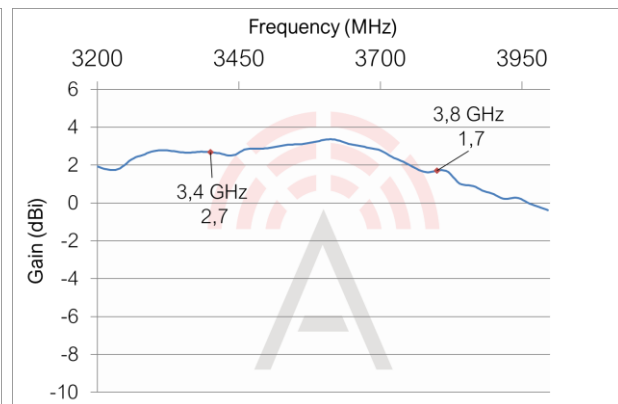


The antenna measurements were done in free space, with the antenna implemented on a 20 x 50 mm PCB.

Total radiation efficiency

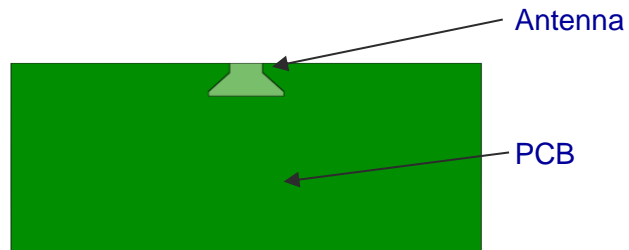
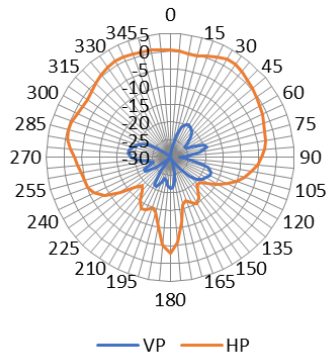


Maximum radiation gain

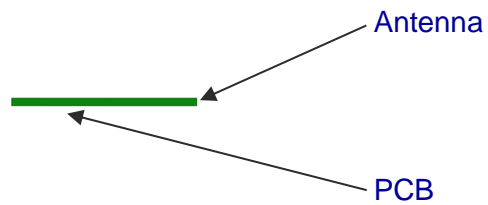
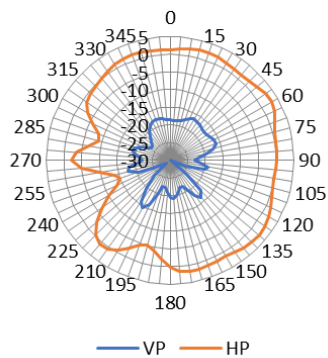


Radiation pattern, 3,6 GHz

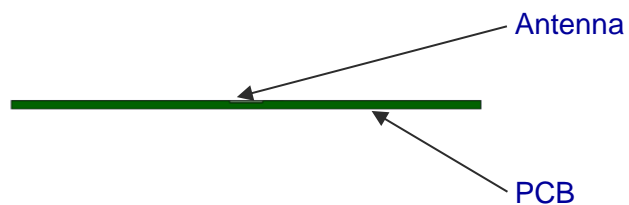
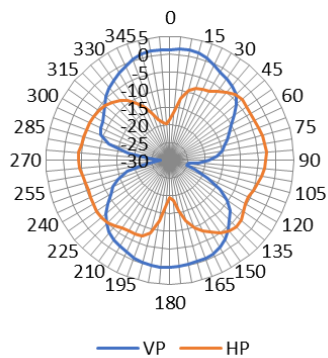
H plane



V0 plane



V90 plane



Intended applications

The antenna is optimized for operation in the 5G 3,4-3,8 GHz band.

Licensing information

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

Disclaimer

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