

Antenna specification

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Manufacturer: ProAnt AB

Address: ProAnt AB, Kungsgatan 52, 753 10 Uppsala, Sweden

Name: NINA-B112

Antenna Datasheet

Datasheet



Abstract

The document specifies NINA-B112 antenna performance.

Document information

Title	NINA-B112 Antenna Datasheet	
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1 Product description

1.1 Characteristics

The NINA-B112 metal sheet antenna also called PIFA, has the following characteristics.

NINA-B112 (u-blox LILY antenna)

Manufacturer	ProAnt AB
Gain	3.2 dBi(MAX)
Impedance	50 Ω
Size (HxWxL)	3.0 x 3.8 x 9.9 mm
Type	PIFA
Operation Temperature	-40°C ~ +85°C
Comment	SMD PIFA antenna on NINA-B112. Should not be mounted inside a metal enclosure.
Frequency Range	2400-2500MHz



1.2 Impedance

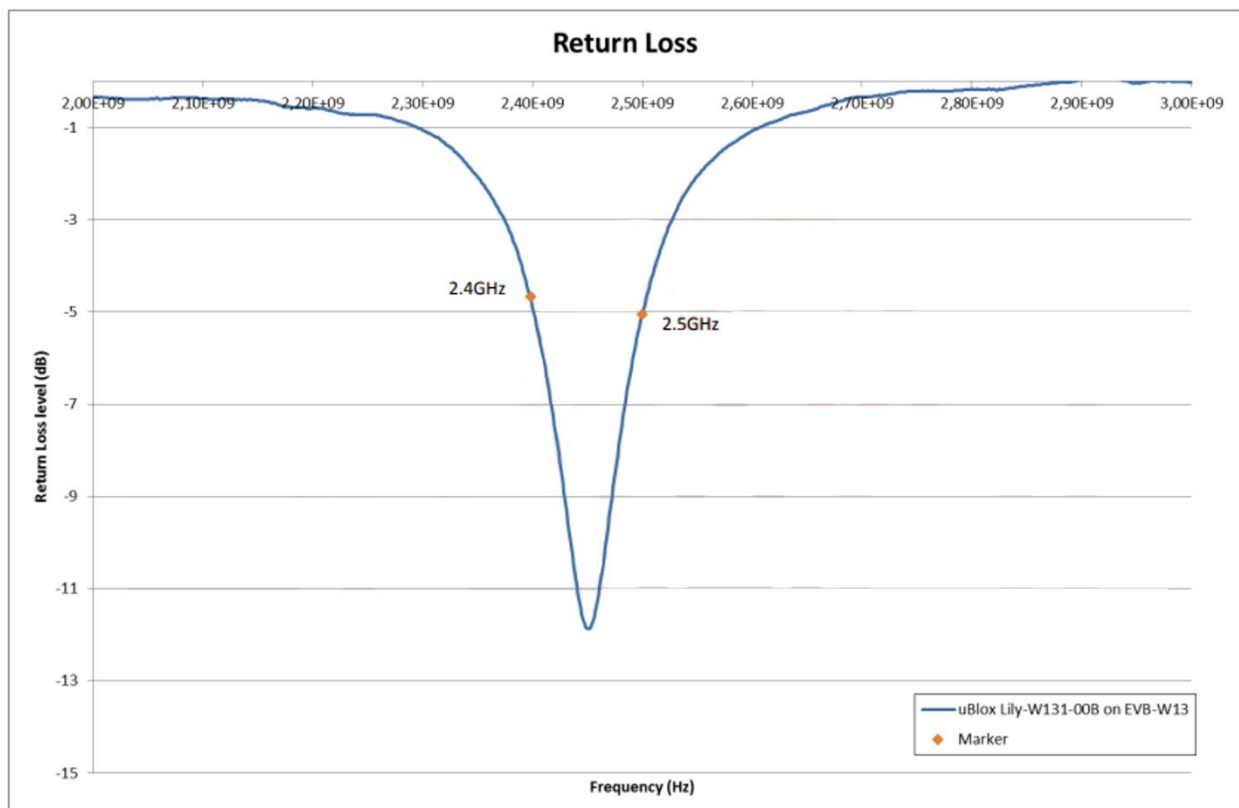


Figure 1: Impedance of NINA-B112 antenna.

1.3 Radiation patterns

The below radiation patterns show the relative output power of an EVB-NINA-B112 transmitting at 0 dBm output power. Both horizontal and vertical antenna polarizations were used. The NINA-B112 module was rotated 360° around the azimuth axis while being kept at 0°, 90° and 180° elevation as shown in Figure 2.

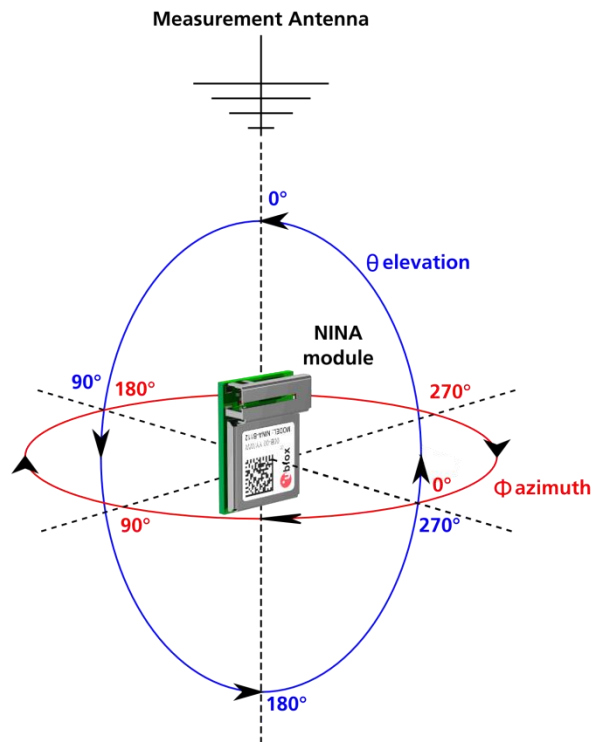


Figure 2: Azimuth and elevation rotation axes relative to the measurement antenna.

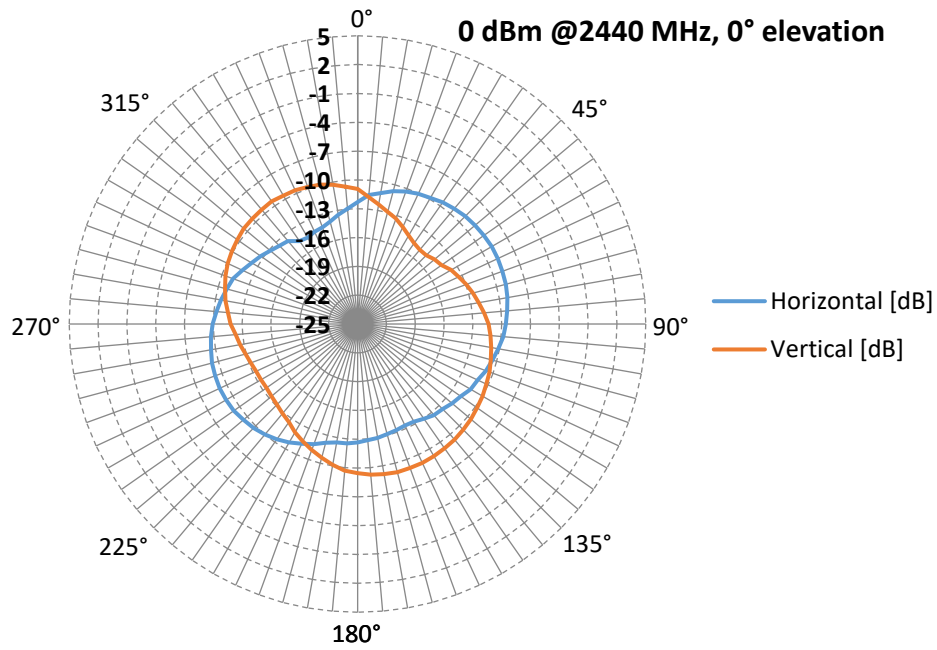


Figure 3: Radiation pattern of NINA-B112 kept at 0° elevation.

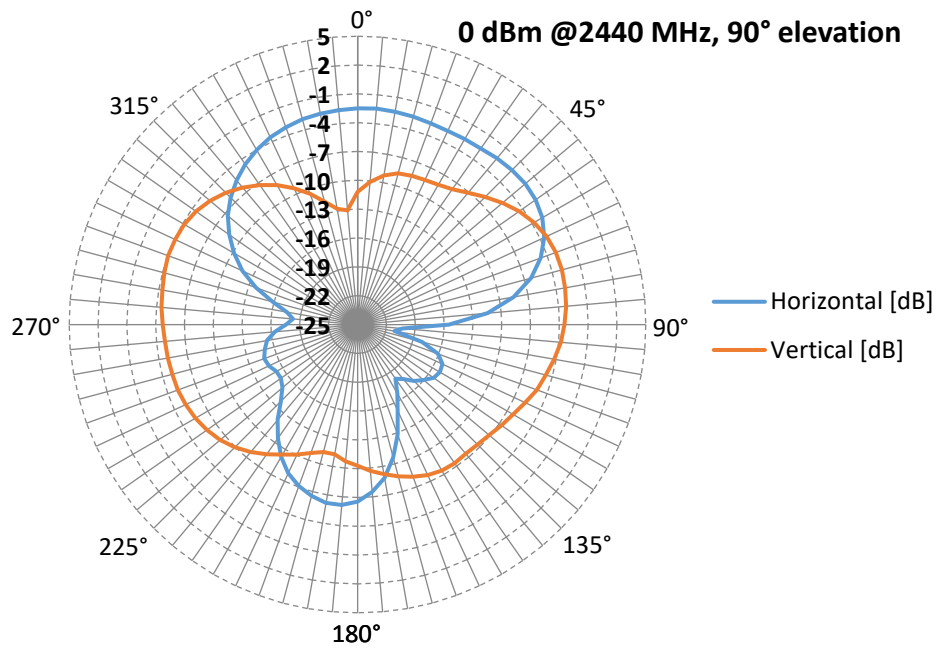


Figure 4: Radiation pattern of NINA-B112 kept at 90° elevation.

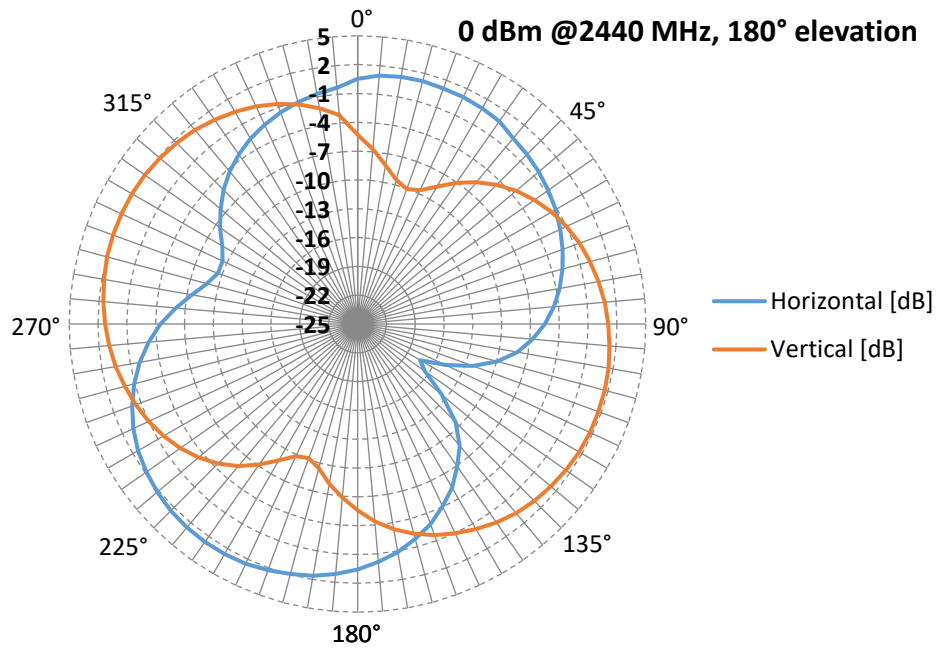


Figure 5: Radiation pattern of NINA-B112 kept at 180° elevation.

1.4 Mechanical Drawing

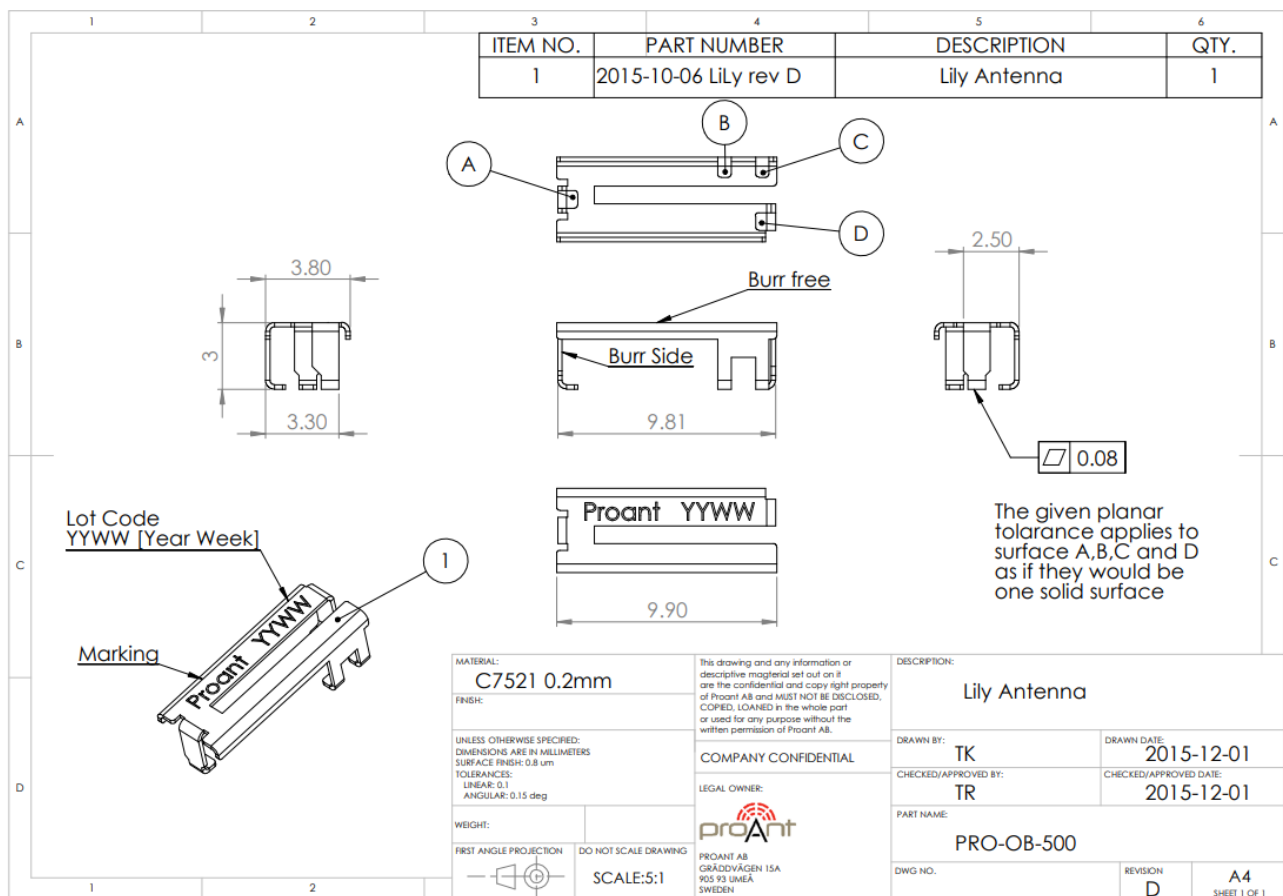


Figure 6: Mechanical drawing.

Related documents

- [1] NINA-B112 Data sheet, doc. no. [UBX-15019243](#)
[2] NINA-B1 series system integration manual, doc. no. [UBX-15026175](#)

For regular updates to u-blox documentation and to receive product change notifications, register on our homepage (www.u-blox.com).

Revision history

Revision	Date	Name	Comments
R01	2023-04-05	hekf	Initial release
R02	2023-04-12	hekf	Added Mechanical Drawing

Contact

For further support and contact information, visit us at www.u-blox.com/support.