

Antenna Report for MIFA AN519

1 Description

Aicon beacon uses a PCB (Printed Circuit Board) internal antenna that is part of the main PCB. There is no option to connect any external antenna to the beacon.

The antenna is an omni-directional antenna with circular polarization.

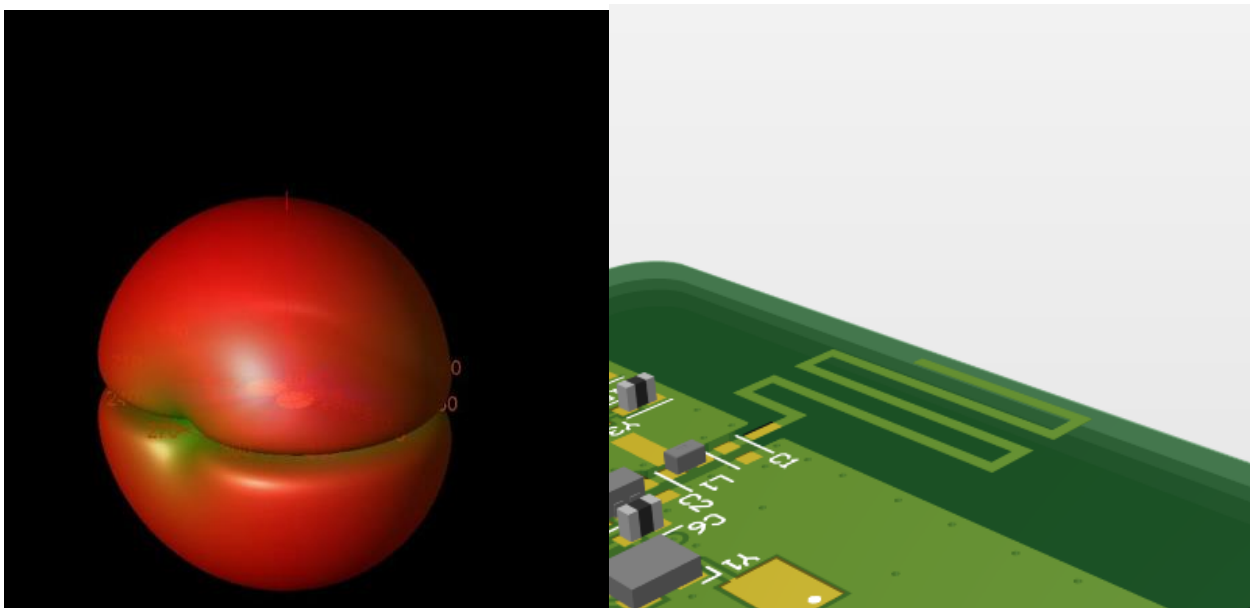
2 General Specifications

- Manufacturer: hard&softWERK GmbH in Bahnhofstr. 10 D-78112 St. Georgen, Germany.
- Model Name: PCB Antenna MIFA AN519.
- Material: Copper.
- Material Thickness: 35 μ m.
- Length: 6.3mm.
- Width: 9.3mm.
- Number of Ports: 1.
- Frequency of Operation (-3dB Band): 2.1 – 2.65 GHz
- Maximum Gain: 2.2 dBi.

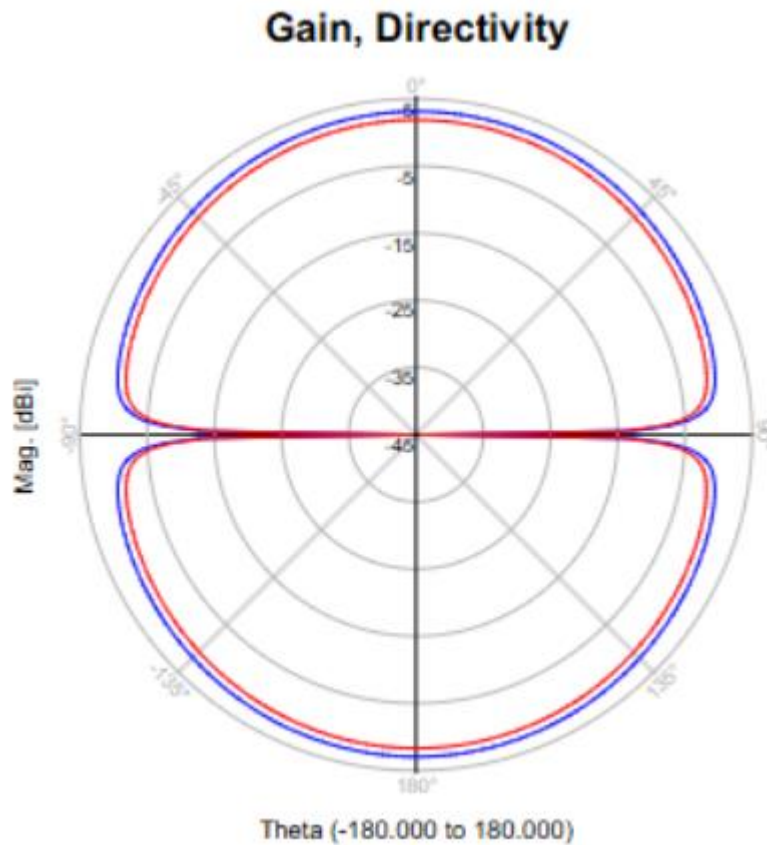
3 Antenna Patterns 2D – 3D

All patterns are plotted at a 2.44 GHz frequency of Operation, as it represents the Center frequency for the ISM Band (2.4 – 2.48) GHz.

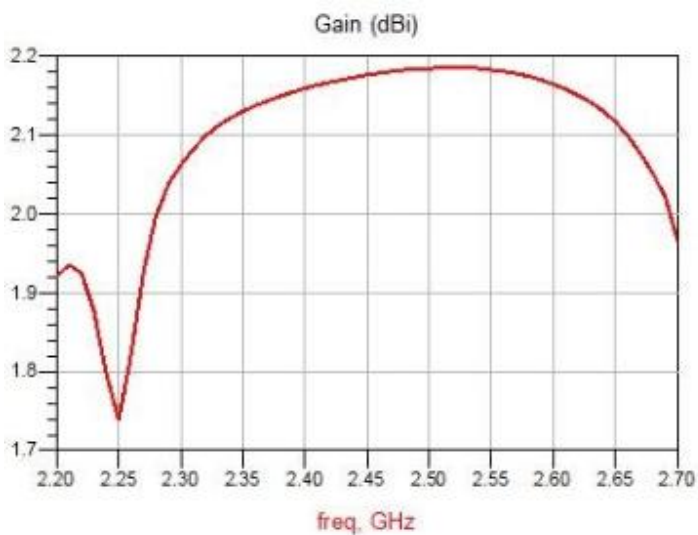
3D Pattern



2D Pattern (Cut Type: Phi, Angle: 0 degrees)



4 Gain Plot





5 General Notes

- All antenna patterns, plots, and specifications were generated by Simulation only.

It was tested by hard&softWERK that the Real antenna values are nearly identical in the desired operation frequency band and do not exceed the maximum limits generated by the simulation.

- For more information about the antenna please contact: gnaser@hard-softwerk.com
- This document is not intended for general release.