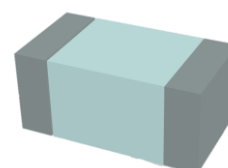


1. Features:

- 2.4GHz applications
- Bluetooth, Wi-Fi, Zigbee, ISM.
- Ultra-small ceramic chip solution.
- High Efficiency.
- SMD mounted.
- Resistant to de-tuning.
- Omni-directional
- RoHS compliant



2. Description

For use in all 2.4GHz applications. Compact design with simple integration and implementation. Effective on varying GND plane sizes. Coexists well in multiple antenna systems. Resistant to de-tuning effects means devices can work well in different environments. Ideal antenna choice for small wearable devices.

3. Applications:

- Small wearable devices
- Headsets
- Medical devices
- PNDs
- Dongles
- Sensors

4. Quick Specs:

Part Number	SRCW004
Frequency	2.4 – 2.5GHz
Operating Temp	-40°C to 125°C
Antenna Dimensions	1.0 x 0.5 x 0.5
Antenna Clearance Area	9mm x 4.5mm
Average Efficiency	70%

5. Mechanical Specifications

Product Name	Weii 2.4GHz Chip Antenna
Part Number	SRCW004
Frequency Range	2.4 - 2.5 GHz
Polarization	Linear
Operating Temperature	-40 °C to +125 °C
Weight	<0.015 g
Impedance with matching	50 Ω
Antenna Type	SMD
Dimensions	1.0 x 0.5 x 0.5 (mm)
Footprint Size	9.0 x 4.5 (mm)

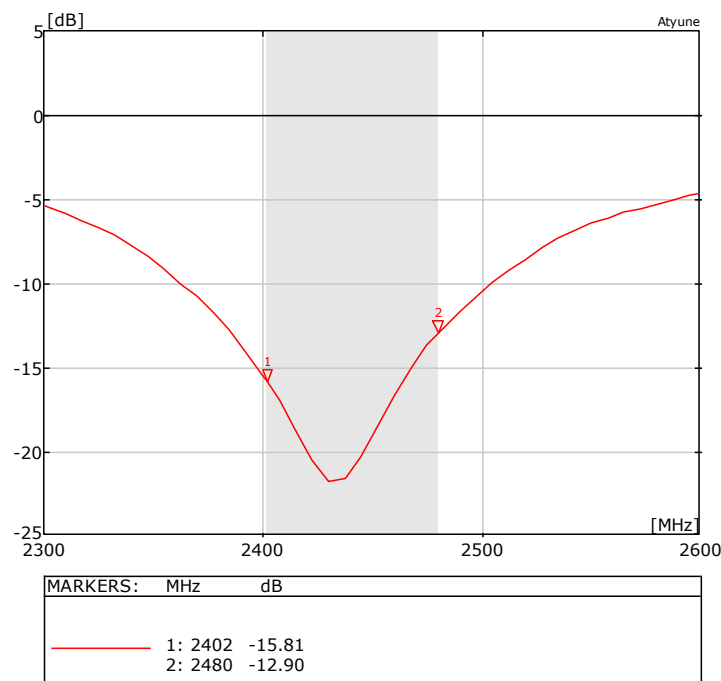
6. RF Specifications

	Typical Performance
Peak Gain	2.5 dBi
Average Gain	-1.5 dBi
Average Efficiency	70%
Maximum Return Loss	<-10 dB
Maximum VSWR	1.6:1

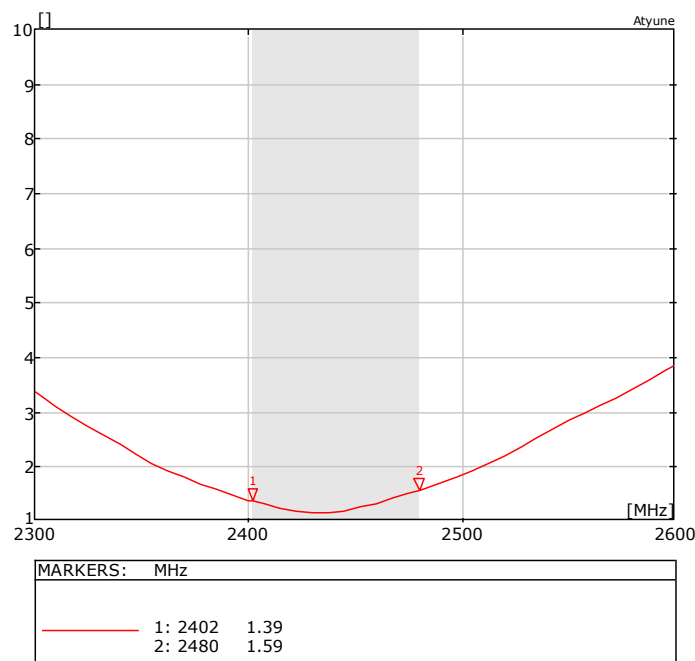
Data measured on Antenova's reference PCB.
Data given for the 2.402 – 2.480 GHz frequency range

7. RF Performance

7-1 Return Loss

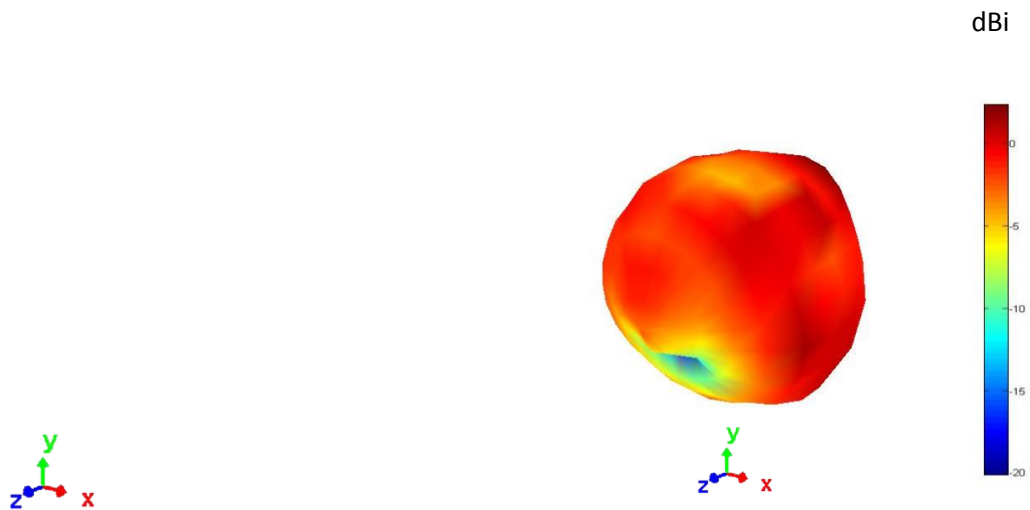


7-2 VSWR

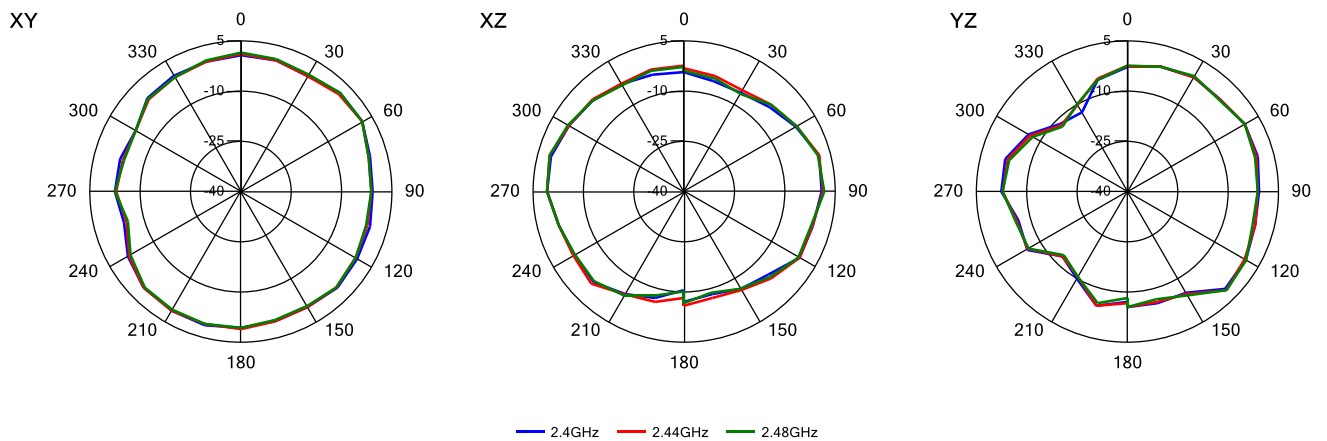


Data measured on Antenova's reference PCB.
Data given for the 2.402 – 2.480 GHz frequency range

7-3 Radiation Pattern

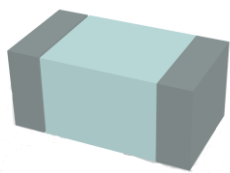


3D pattern at 2.45GHz
Drag to rotate pattern by using Adobe Reader

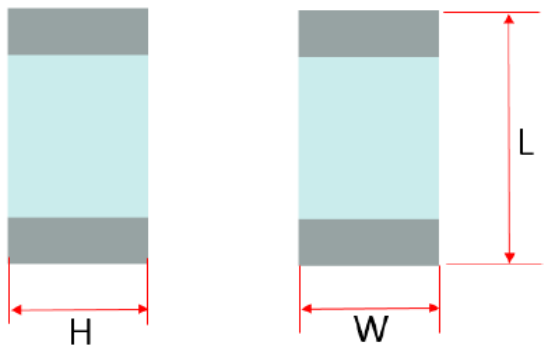


Data measured on Antenova's reference PCB.
Data given for the 2.402 – 2.480 GHz frequency range

8. Antenna Dimensions



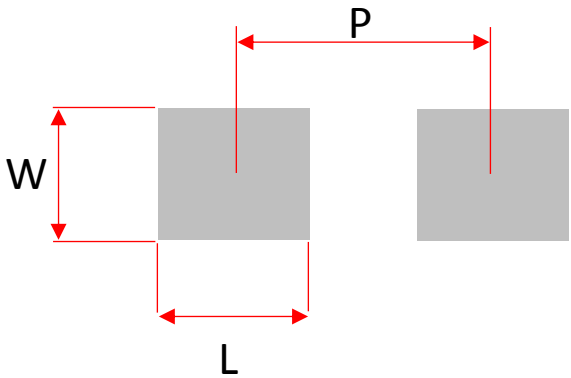
L	W	H
Length	Width	Height
1.0 ± 0.1	0.5 ± 0.15	0.5 ± 0.1



All dimensions in mm

9. Antenna footprint

L	W	P
Length	Width	Pitch
0.6 ± 0.1	0.5 ± 0.15	1.0 ± 0.1



All dimensions in mm



PCB copper pads

* CAD files of the antenna footprint are available at www.antenova.com.