

G-2RW3

2.4G WiFi SMD Chip Antenna

SMD

2.4G WiFi

The G-2RW3 is a high-performance embedded antenna designed for 2.4G WiFi applications. Its SMD form factor enables seamless integration onto printed circuit boards (PCBs), making it an excellent choice for compact and space-constrained devices, such as IoT solutions, wireless communication modules, and smart home devices.

The G-2RW3 SMD antenna delivers robust WiFi performance and high signal gain, ensuring stable and reliable connectivity for demanding wireless applications.



12*4*3 mm

Key Features

- Support 2.4G WiFi
- Wide Application
- High Reliability/Sensitivity
- Compact Size, Easy to install
- RoHS Compliant

Document Information

Product	Antenna
Part Number	G-2RW3
Version	3.0 (current)
Date	2024-12-01
Status	Released

Revision History

Version	Date	Author	Modifications
1.0	2020-12-16	Amy Li	Initial Release
2.0	2023-09-21	Ivy Liao	New layout and design
3.0	2024-12-01	Alyssa Zhou	New design

Specifications

Antenna Specifications	
Impedance (Ω)	50
Radiation	Hemispherical
Polarization	Linear
Electrical Type	Monopole
Type	SMD
Dimensions	12 x 4 x 3 mm
Connector	N/A
Mounting Type	SMT
Color	Black
Material	FR4
Operating Temperature	-20 °C to + 80 °C
IP Rating	N/A
Compliance	RoHS
Weight	<2.5g

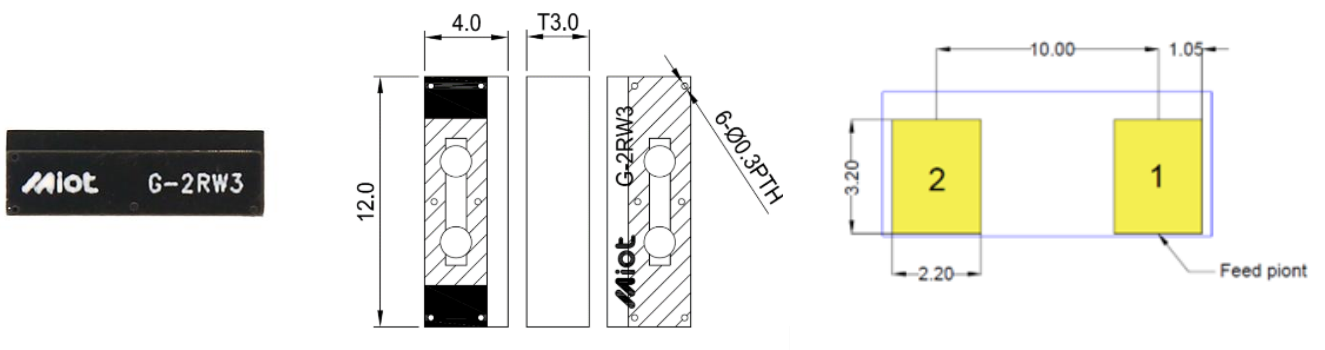
Caution:

1. Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components, as this will cause damage to the component.
2. Do not expose the component to an open flame.
3. This specification applies to the functionality of the component as a single unit. Please ensure the component is thoroughly evaluated in the application circuit.

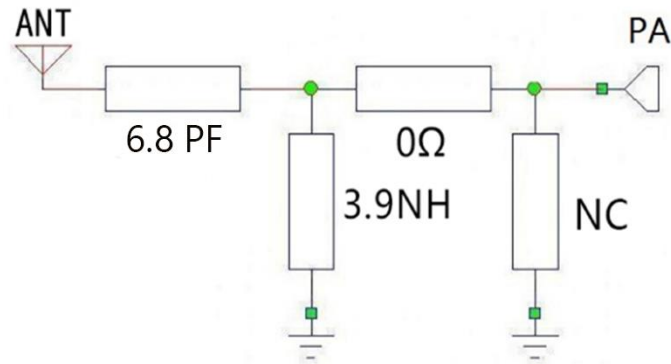
Application

- WiFi Radios
- Gateways
- Set-Top Boxes
- Security
- IoT
- M2M
- Transportation
- Smart agriculture

Product Images and Dimensions



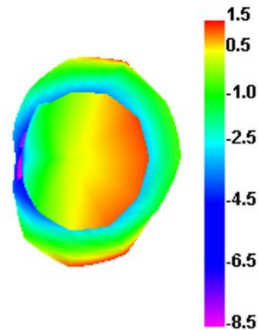
Matching Circuit



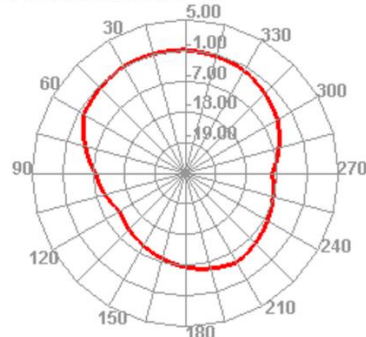
Radiation Pattern

- 2400 MHz

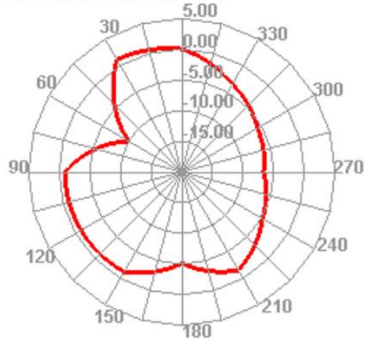
2400.000MHz



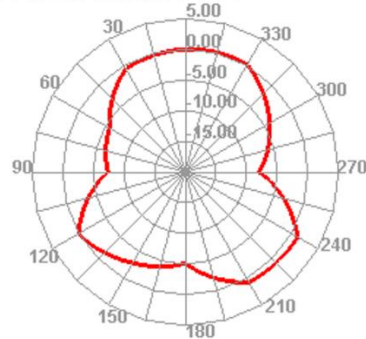
2400.000MHz H



2400.000MHz E1

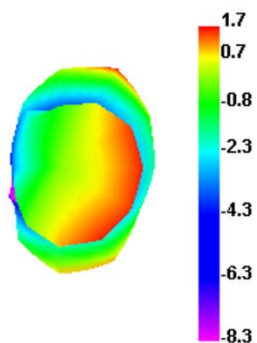


2400.000MHz E2

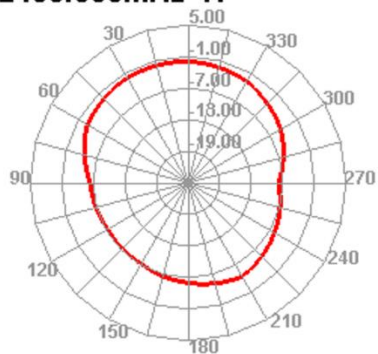


- 2450 MHz

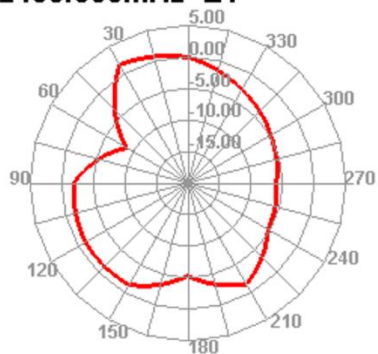
2450.000MHz



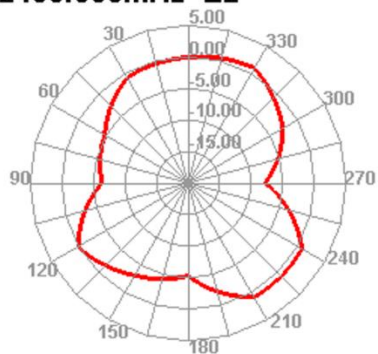
2450.000MHz H



2450.000MHz E1

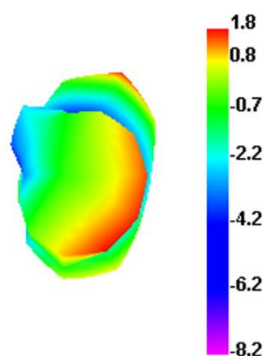


2450.000MHz E2

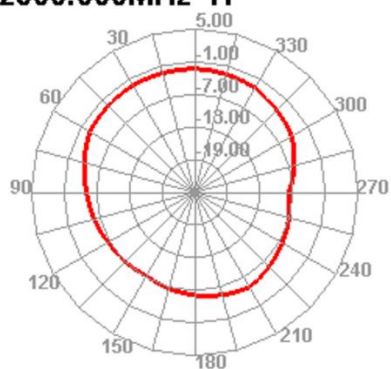


- 2500 MHz

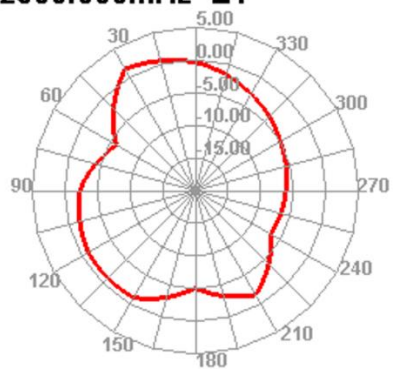
2500.000MHz



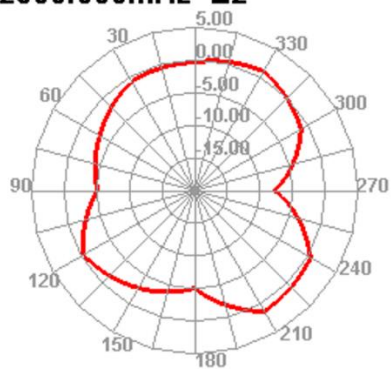
2500.000MHz H



2500.000MHz E1

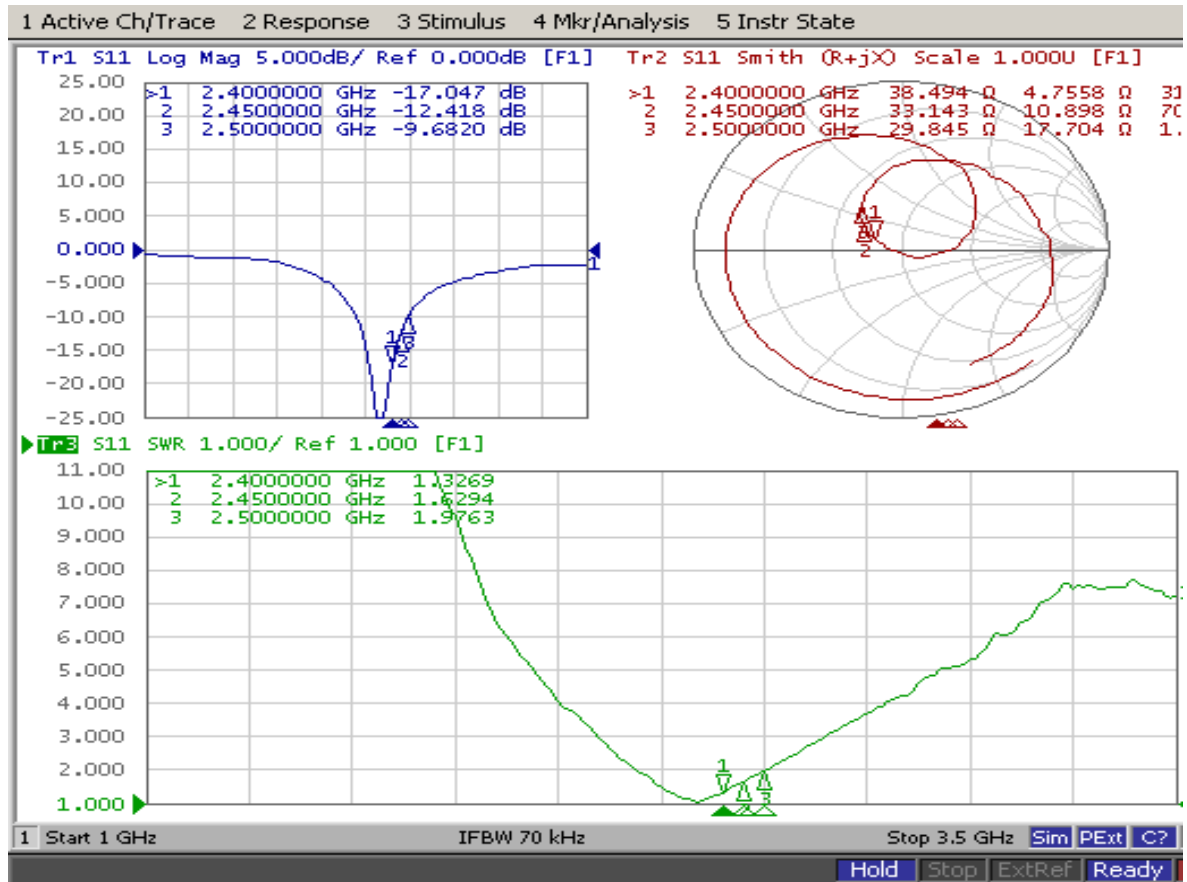


2500.000MHz E2



Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	58.2	1.5
2410	57.2	1.4
2420	57.4	1.4
2430	57.1	1.4
2440	56.9	1.5
2450	59.5	1.7
2460	58.6	1.7
2470	58.7	1.7
2480	58.3	1.6
2490	60.4	1.7
2500	61.4	1.8

Antenna Smith and VSWR



/ Order Information

Part Number	Description
G-2RW3	2.4G WiFi SMD Chip Antenna

About Us

MIOT Wireless Solutions Co., Ltd., established in 2017, is composed of seasoned IoT industry experts and developers from all over the world.

We possess extensive knowledge in **Antennas, Device Prototyping, ODM, Component Sourcing, and Manufacturing**, with a specialized focus on IoT products.

Regardless of the type of connectivity you require in your design, our wireless experts can assist you in achieving it. MIOT's products and solutions have already connected hundreds of thousands of devices in the field.

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