



2.4GHz Mini Monopole Antenna

Part No: GW.23.A151

Description

2.4GHz Mini Monopole Antenna RP-SMA(M) Straight

Features:

2.4GHz Band Operation Small Factor IP67 Rated Enclosure RP-SMA(M) Straight Connector Dimensions: Ø8.9mm x 21mm RoHS & Reach Compliant



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1. Introduction



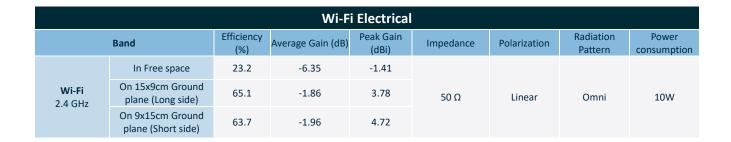
The GW.23 is one of a range of super small form factor, lightweight, IP67 rated terminal mount antennas from Taoglas. It is ideal for wireless applications operating on Bluetooth® and Wireless LAN bands covering 2.4GHz. Its robust silicone enclosure is engineered to perform in the most challenging of external environments when connecting IoT devices to smart grid and smart monitoring applications.

With its IP67 rating, the GW.23 can withstand dust, dirt, and even complete submersion in water, making it the perfect choice for any IoT application that demands both reliable connectivity and extreme durability. Whether you're connecting sensors for remote agricultural, monitoring equipment in industrial settings, or building the infrastructure for smart cities, the GW.23 is a great solution.

If you are looking for an antenna that's small, tough, and versatile, look no further than the GW.23. Contact your regional Taoglas Customer Services Team for more information or to discuss your project.



2. Specification



	Mechanical	
Dimensions	21mm x Ø8.9mm	
Weight	3.3g	
Material	Silicone	
Connector	RP-SMA(M)	

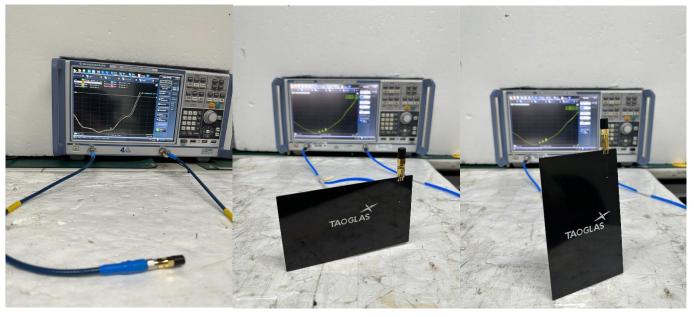
	Environmental
Operating Temperature	-40°C ~ +85°C
Waterproof Rating	IP67



3. Antenna Characteristics

3.1 Test Setup





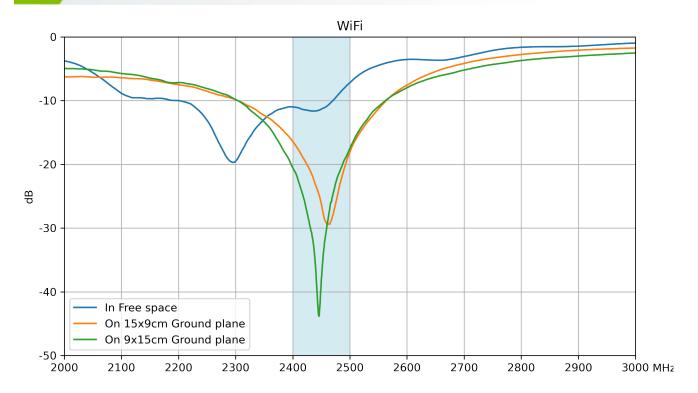
In Free Space

On 15x9cm Ground plane

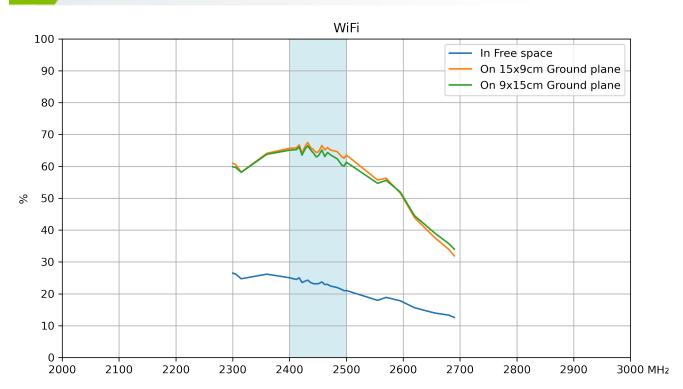
On 9x15cm Ground plane



3.2 Return Loss

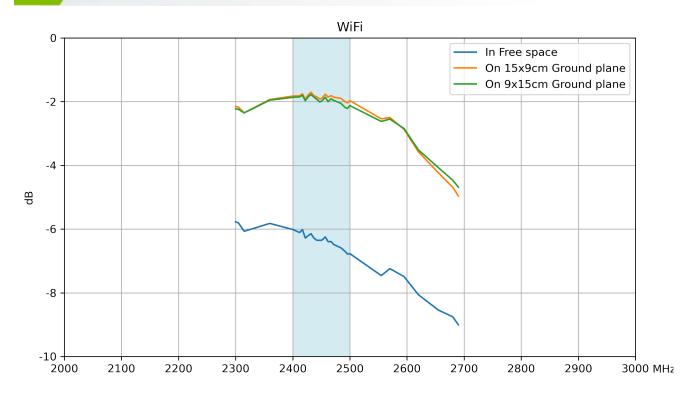


3.3 Efficiency

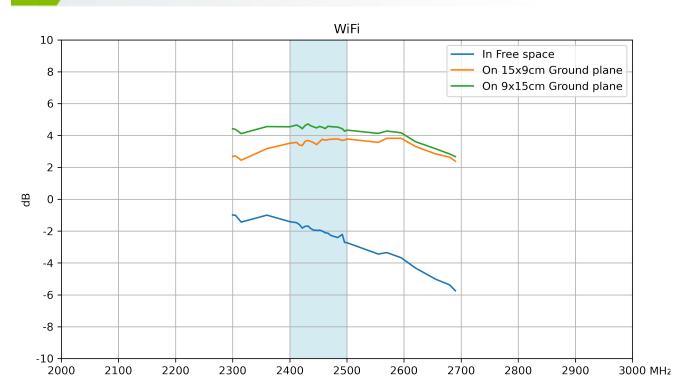




3.4 Average Gain



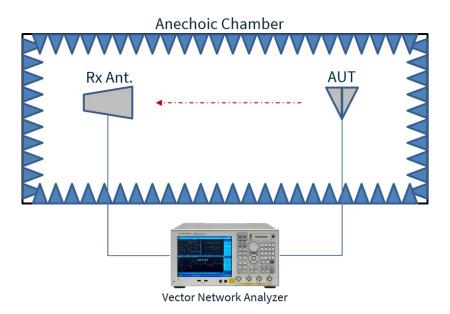
3.5 Peak Gain





4. Radiation Patterns

4.1 Test Setup





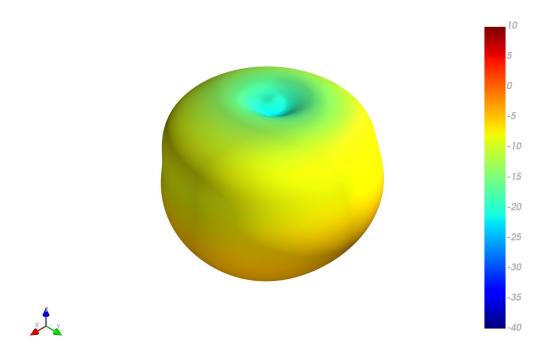
In Free Space

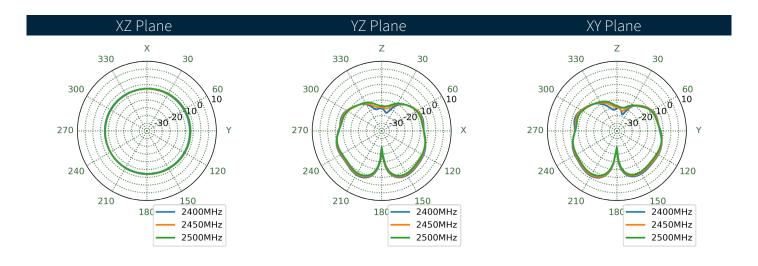
On 15x9cm Ground plane

On 9x15cm Ground plane



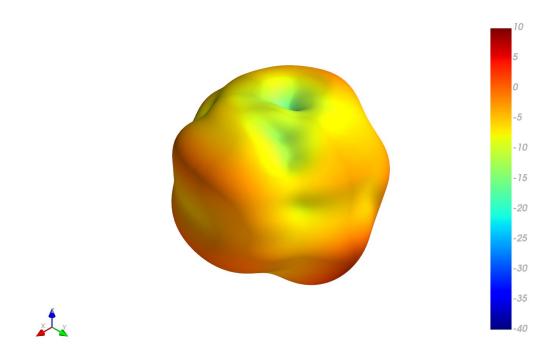
.2 GW.23.A151 - Patterns at 2450 MHz in Free Space

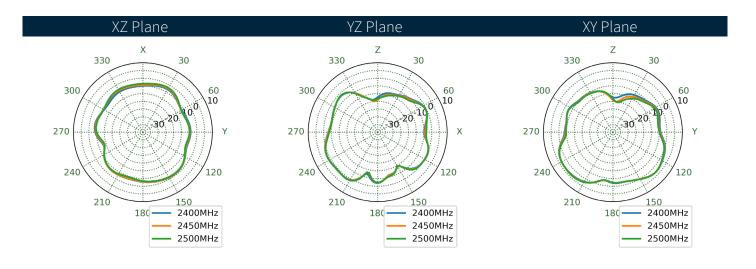






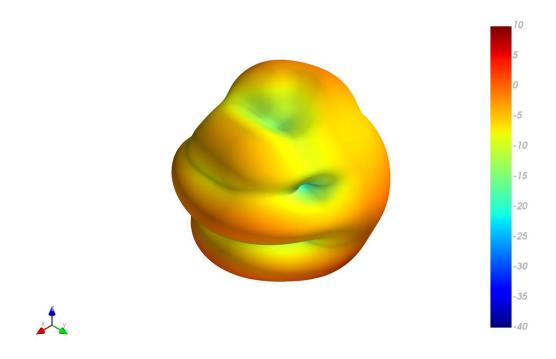
GW.23.A151 - Patterns at 2450 MHz on 15x9cm ground plane

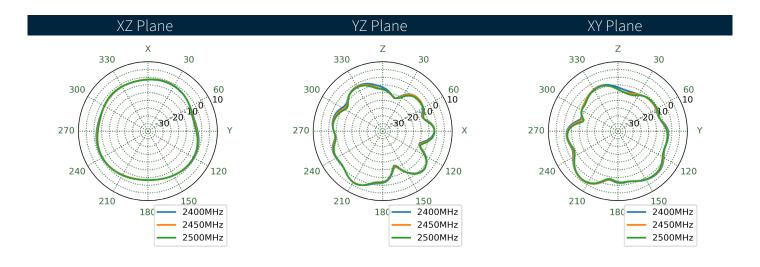






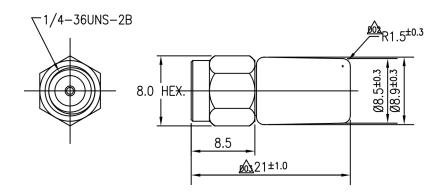
4.4 GW.23.A151 - Patterns at 2450 MHz on 9x15cm ground plane







5. Mechanical Drawing

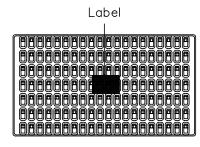




Packaging

140pcs GW.23.A151 per Tray Weight: 0.52Kg

8 Trays per Set 1120 pcs per Set Weight: 4.2Kg

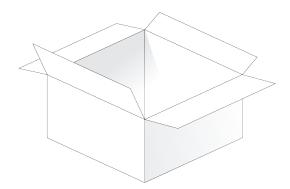




1120pcs per Carton

Dimensions: 425 x 240 x 130mm

Weight: 4.65Kg





Changelog for the datasheet SPE-24-8-013 – GW.23.A151 Revision: A (First Release) Date: 2024-01-19 Notes: Author: Cesar Sousa

Previous Revisions

Revision:	
Date:	
Notes:	
Author:	

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