

2.4GHz 5dBi Terminal Mount Dipole Antenna

Part No: GW.34.5153

Description:

Wi-Fi 2.4GHz 5dBi Dipole Terminal Mount Antenna RP-SMA(M) Hinged

Features:

2.4GHz Band Operatior

5dBi Gain

High Efficiency up to 80%

Hinged RP-SMA (M) Connector

Height: 198mm

Diameter: 13mm

RoHS & Reach Compliant



1.	Introduction	3
2.	Specifications	4
3.	Antenna Characteristics	6
4.	Radiation Patterns	8
5.	Mechanical Drawing	11
6.	Packaging	12
	Changelog	13

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The Taoglas GW.34 is a 2.4 & 5.8GHz Wi-Fi terminal mount dipole antenna. At just 198mm in height and 13mm in diameter, the robust TPEE enclosure can be mounted straight or at right angle to the device with its hinged RP-SMA(M) connector. It is ideal for applications such as Bluetooth, BLE, ZigBee and Wireless LAN. The GW.82, designed for superior performance and reliability, has an omnidirectional radiation pattern and extremely high efficiency and gain on both the 2.4 & 5.8GHz bands.

Typical applications include:

- Smart Home - Gateways/Routers - Connected Agriculture

The GW.34 has up to 5dBi Peak making it a cost-effective, high-performing choice for any indoor or outdoor application. Many module manufacturers specify peak gain limits for any antennas that are to be connected to that module. Those peak gain limits are based on free-space conditions. In practice, the peak gain of an antenna tested in free-space can degrade by at least 1 or 2dBi when installed. So ideally you should go for a slightly higher peak gain antenna than mentioned on the module specification to compensate for this effect. This provides you with improved performance. Upon testing of any of our antennas with your device and appropriate layout, integration technique, or cable, we can work with you to make any of our antennas' perform below the peak gain limits. Taoglas can then issue a specification and/or report for the selected antenna in your device that will clearly show it complying with the peak gain limits. You can be assured that you are meeting the regulatory requirements for that module whilst getting the best performance possible, without exceeding the peak gain limits.

For further information, or support to test and integrate this product please contact your regional Taoglas customer support team.



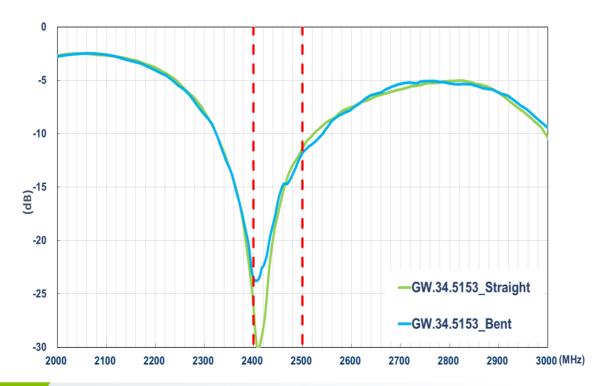
2. Specifications

Electrical					
Frequency (MHz)	2400~2500				
Efficiency (%)					
Straight	78.56				
Bent	83.20				
Average Gain (dB)					
Straight	-1.05				
Bent	-0.80				
Peak Gain (dBi)					
Straight	4.22				
Bent	5.89				
Impedance	50Ω				
Polarization	Linear				
Radiation Pattern	Omni				
Max. input power	1W				
	Mechanical				
Height	198 ±3.3 mm				
Planner Dimension	198*Ø13 mm				
Casing	TPEE				
Connector	RP-SMA(M)				
Weight	22.5 g				
	Environmental				
Temperature Range	-40°C to 85°C				
Humidity	Non-condensing 65°C 95% RH				

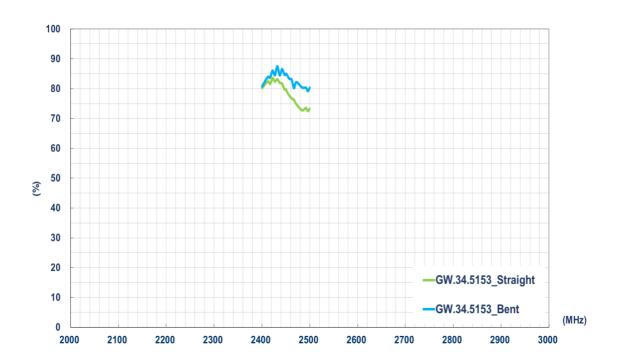


3. Antenna Characteristics

3.1 Return Loss

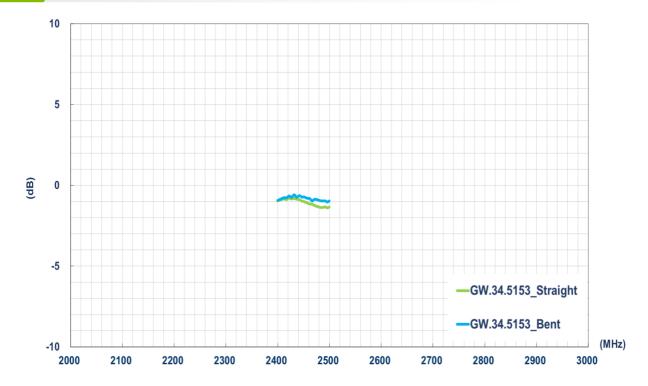


3.2 Efficiency

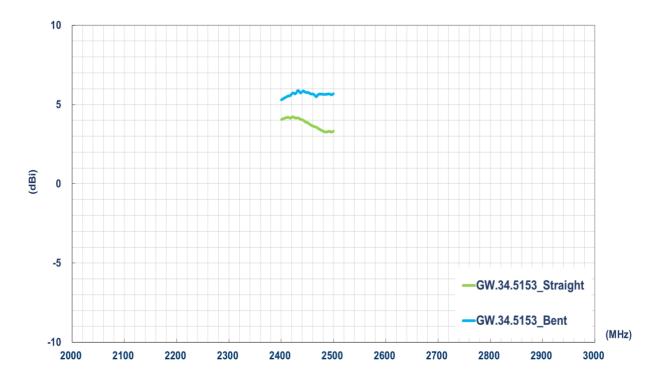




3.3 Average Gain



3.4 Peak Gain





4. Radiation Patterns

4.1 Test Setup



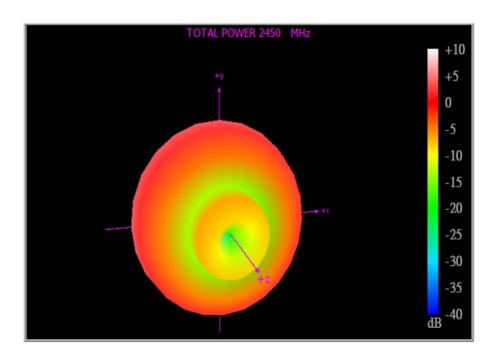
Free space - Straight

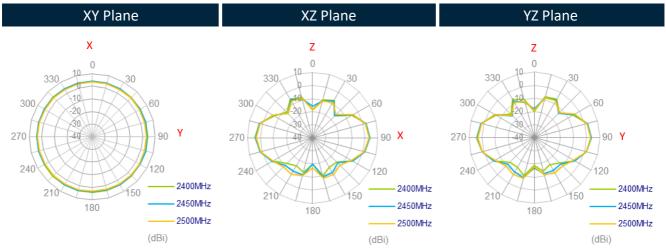


Free space - Bent



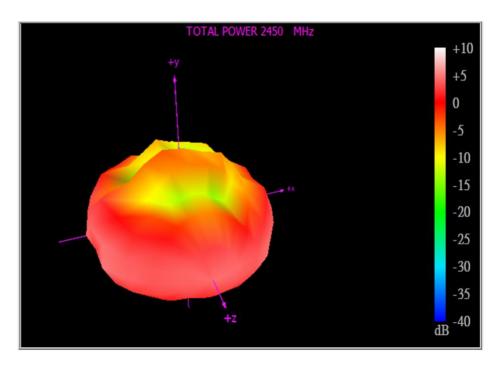
4.2 2450MHz 3D and 2D Radiation Patterns - Straight

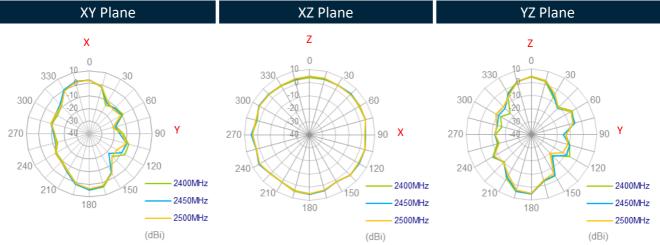






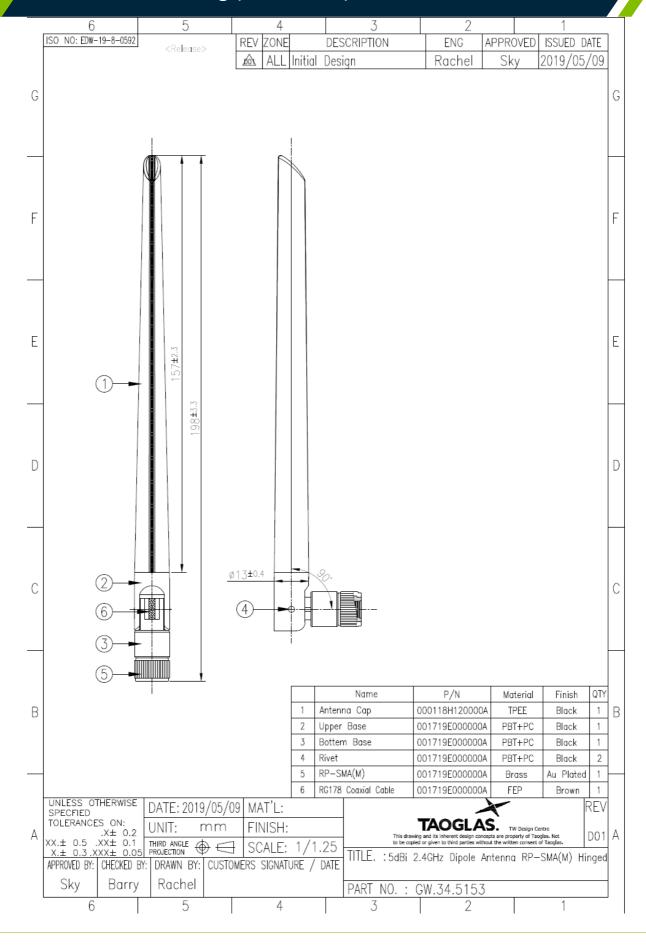
4.3 2450MHz 3D and 2D Radiation Patterns - Bent







5. Mechanical Drawing (Units: mm)





6. Packaging

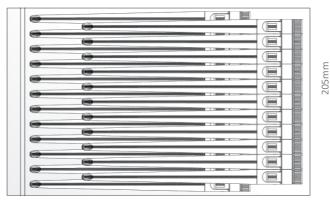
1pc GW.34.5153 per PE Bag Bag Dimension: 245*30mm

Weight: 22.5g

245mm

40pcs GW.34.5153 per Large PE Bag Bag Dimensions: 320*205mm

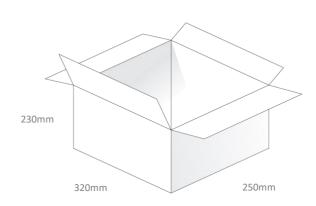
Weight: 0.9Kg



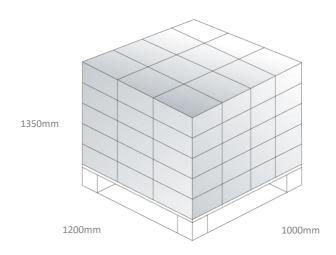
320mm

400pcs GW.34.5153 per Carton Dimensions: 320*250*230mm

Weight: 10Kg



Pallet Dimensions: 1200*1000*1350mm 60 Cartons Per Pallet 12 Cartons Per Layer, 5 Layers



www.taoglas.com SPE-19-8-086-A



Changelog for the datasheet SPE-17-8-042 - OMB.868.B12F21 Revision: A (Original First Release) Date: 2019-06-24 Notes: Author: Jack Conroy

Previous Revisions



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