



Part No: GW.48.A151

Description

Black 2.4 / 5.8 / 7.125GHz

Rubber Duck Dipole Antenna with RP-SMA(M)

Features:

2.4/5.8/7.125GHz Band Operation

UV Resistant, Robust TPEE Housing

IP65 Waterproof Enclosure

IKO5 Impact Rated Enclosure

Connector Mount: RP-SMA(M)

Dimensions: 89.5mm x 7.5mm Diameter

RoHS & REACH compliant



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1. Introduction



The GW.48 dual-band 2.4/5.8/7.25GHz RP-SMA(M) mount dipole antenna is designed for superior performance and reliability. With an omnidirectional radiation pattern and excellent efficiency and gain on both 2.4 GHz, 5.8 & 7.125GHz bands.

At just 89.5mm in height, the GW.48 is a great smaller form factor solution for Bluetooth and Wireless LAN networks. The IP67 rated enclosure makes it suitable for both indoor and outdoor applications. The flexible IK05 rated TPEE enclosure is impact resistant and durable and has the added benefit of UV resistance, allowing it to meet the needs of demanding outdoor applications.

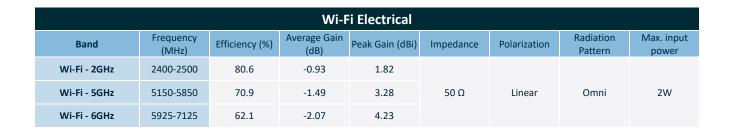
Upon testing of any of our antennas with your device and a selection of appropriate layout, integration technique, or cable, Taoglas can make sure any of our antennas' peak gain will be below the peak gain limits. Taoglas can then issue a specification and/or report for the selected antenna in your device that will clearly show it complying with the peak gain limits, so you can be assured you are meeting regulatory requirements for that module.

Choosing a Taoglas antenna with a higher peak gain than what is specified by the module manufacturer and enlisting our help will ensure you are getting the best performance possible without exceeding the peak gain limits.

Contact your regional Taoglas customer support team for further information.



2. Specification



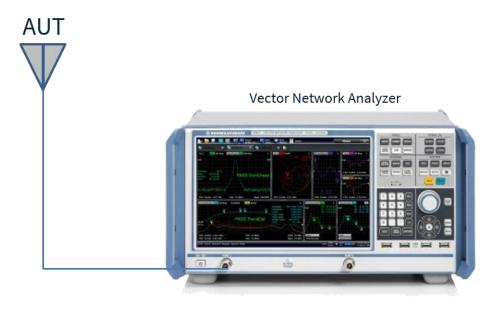
	Mechanical
Antenna Length	89.5 mm
Antenna Diameter	7.5 mm
Weight	9.5g
Antenna Body Material	TPEE
Connector	RP-SMA(M)
Waterproof	IP65
Pendulum Hammer Test [IEC62262]	IK05

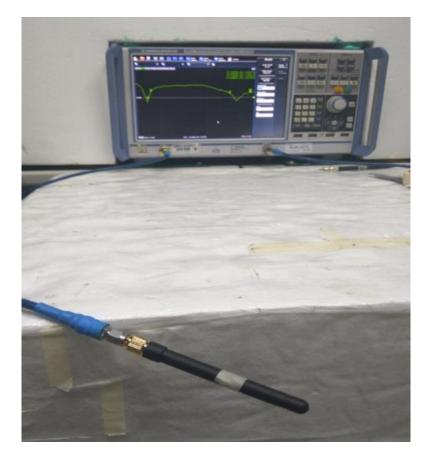
	Environmental
Temperature Range	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH



3. Antenna Characteristics

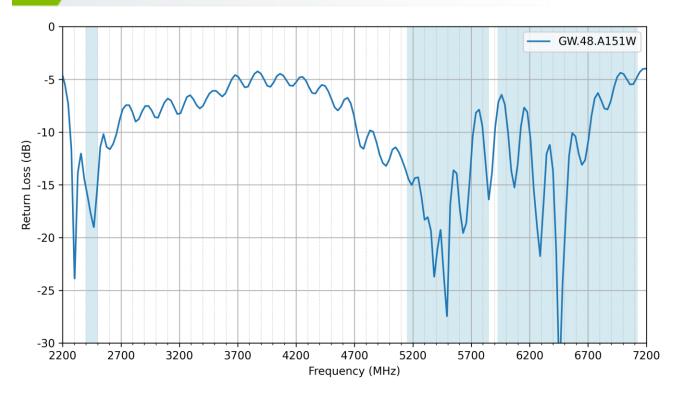
3.1 Test Setup



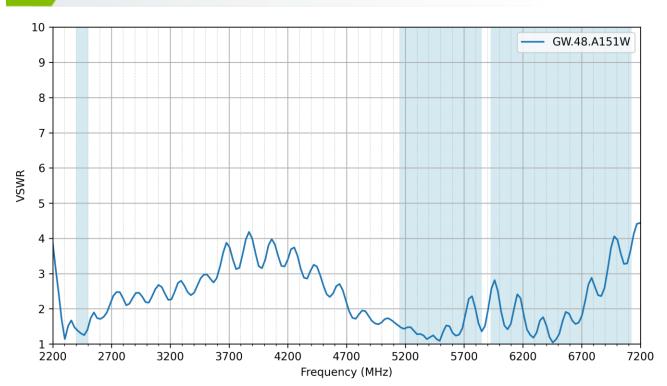




3.2 Return Loss

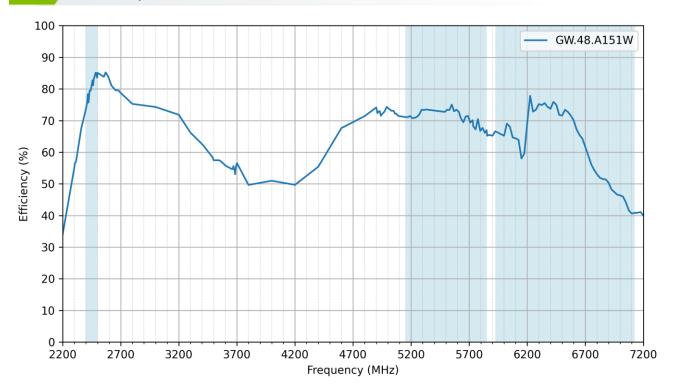


3.3 VSWR

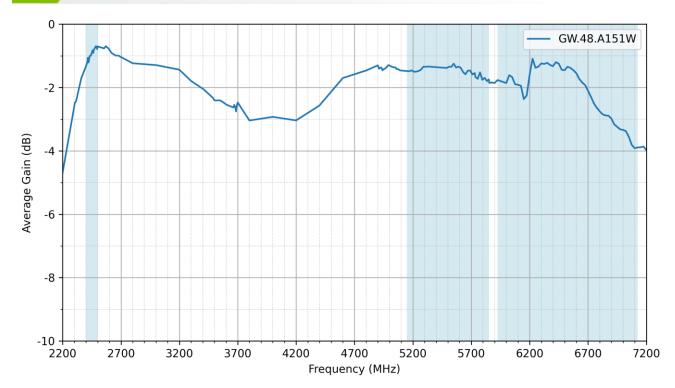




3.4 Efficiency

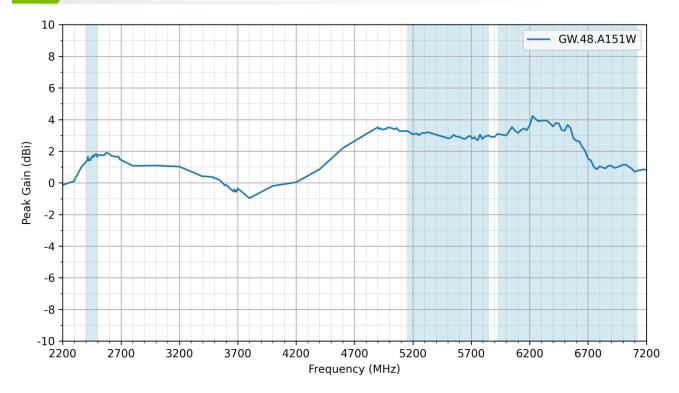


3.5 Average Gain





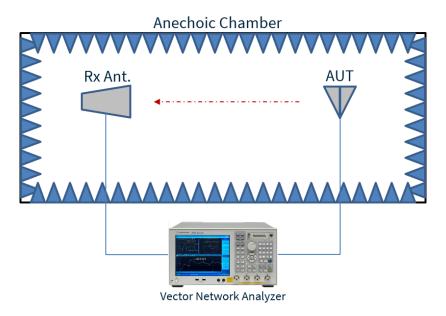
3.6 Peak Gain





4. Radiation Patterns

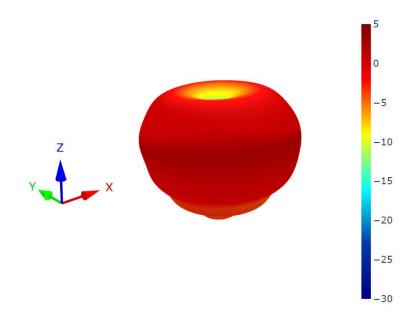
4.1 Test Setup

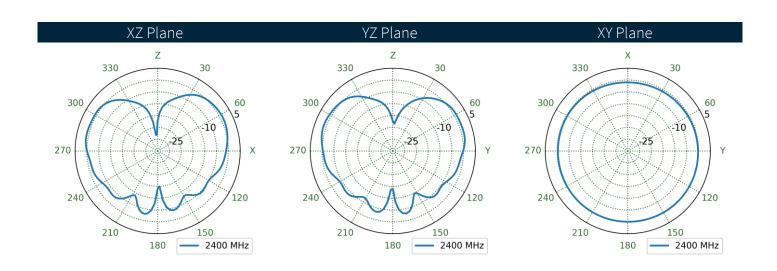






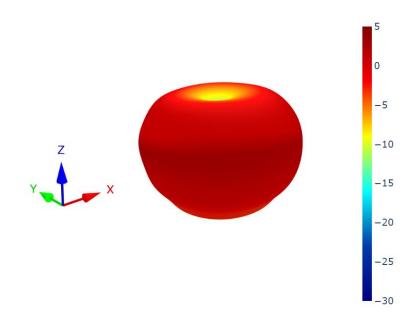
4.2 GW.48.A151 Patterns at 2400 MHz

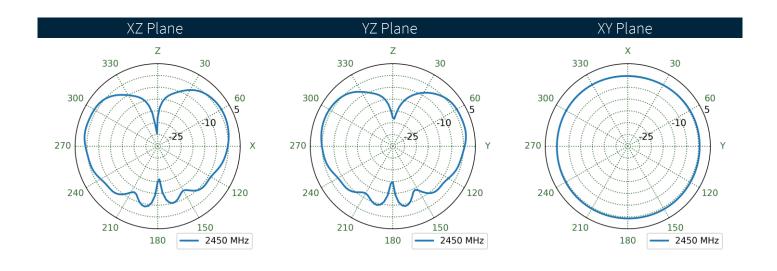






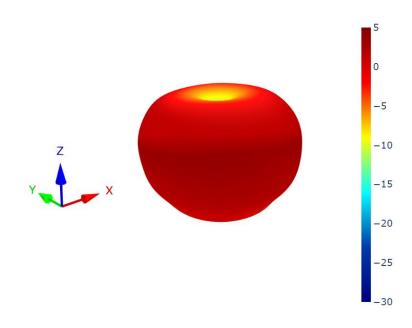
4.3 GW.48.A151 Patterns at 2450 MHz

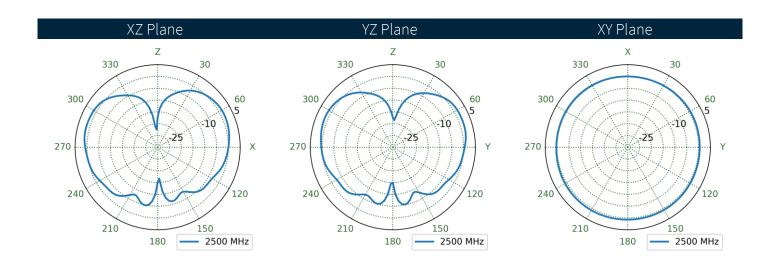






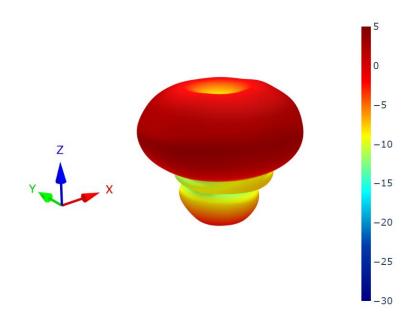
4.4 GW.48.A151 Patterns at 2500 MHz

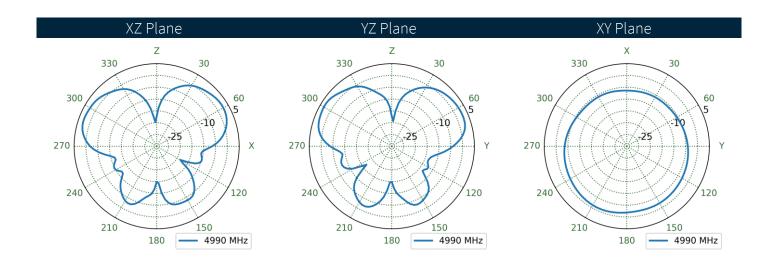






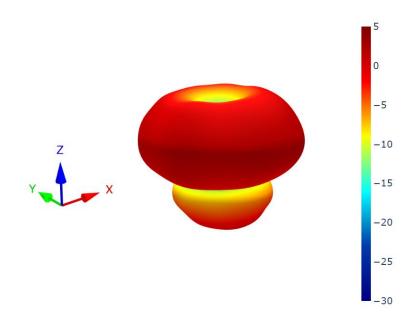
GW.48.A151 Patterns at 5000 MHz

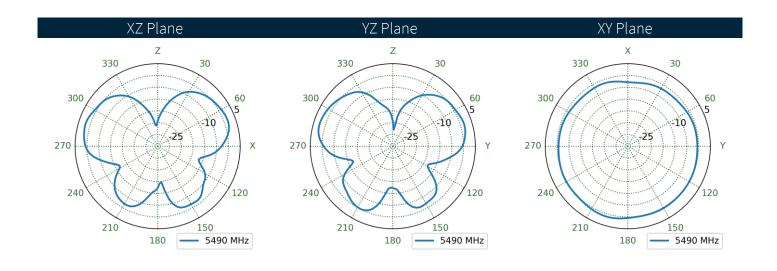






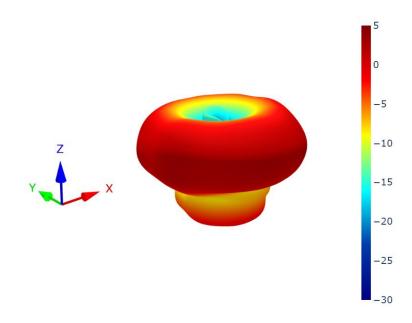
4.6 GW.48.A151 Patterns at 5500 MHz

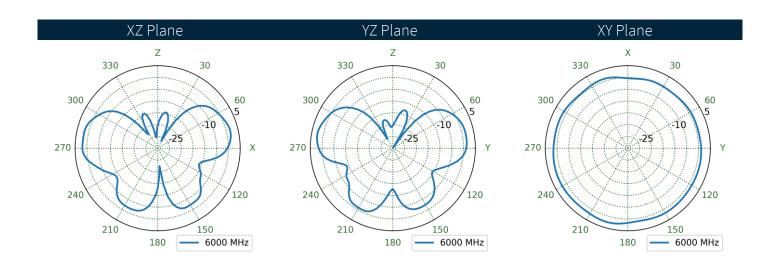






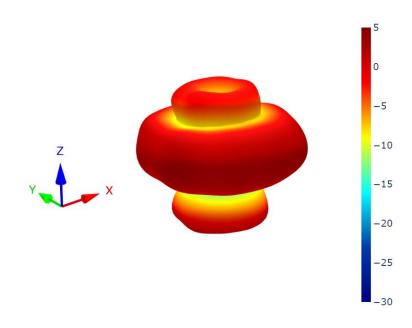
GW.48.A151 Patterns at 6000 MHz

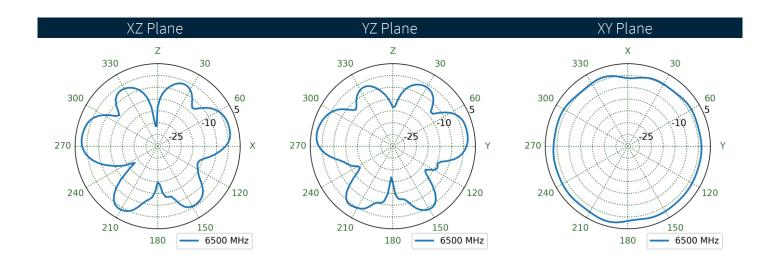






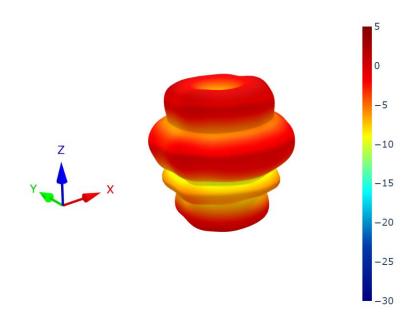
4.8 GW.48.A151 Patterns at 6500 MHz

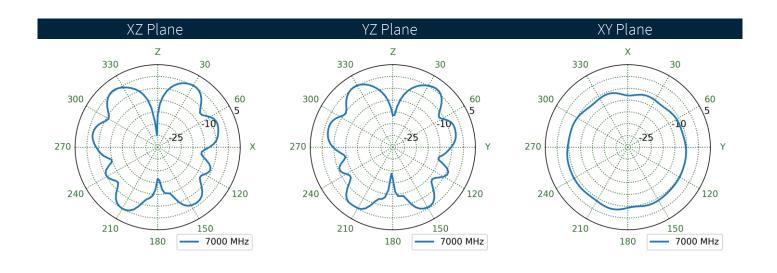






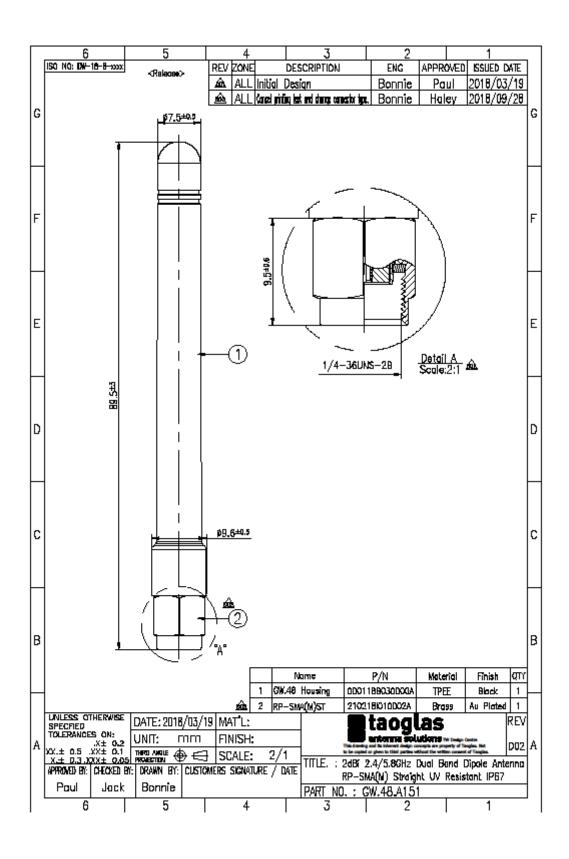
GW.48.A151 Patterns at 7000 MHz







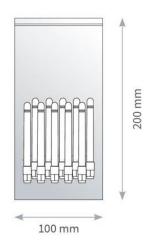
Mechanical Drawing



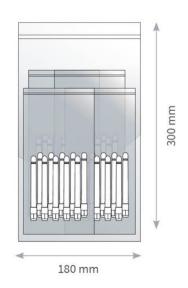


6. Packaging

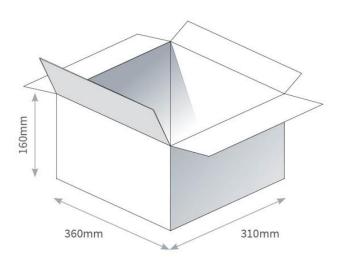
10 pcs GW.48 per PE Bag Bag Dimensions - 100 x 200 mm Weight - 86g



10 Small PE Bag per Large Bag 100 pcs GW.48 per PE Large Bag Bag Dimensions - 300 x 180mm Weight - 865g



1000 pcs GW.48 per carton Carton - 360 x 310 x 160mm Weight - 9.6Kg





Changelog for the datasheet

SPE-18-8-120 - GW.48.A151

Revision: B (Current Version)		
Date:	2023-03-20	
Changes:	Full datasheet update	
Changes Made by:	Gary West	

Previous Revisions

Revision: A (Origina	
Date: Notes:	2018-11-30
Author:	Unknown





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