

SPECIFICATION

Part No.	:	GW.11.A153W
Product Name	:	2.4GHz 2.3dBi Screw mount Dipole Antenna
Description	:	RP-SMA(M) Connector Hinged TPE Housing White Length 84mm ROHS Compliant



1. Introduction

The GW.11 2.4 GHz dipole RP-SMA plug mount antenna is ideal for 2.4 GHz wireless applications such as Bluetooth and Wireless LAN. At only 84mm in length omni-directional 1.8dBi gain across all bands ensures constant reception and transmission. The antenna structure is designed for robust handling and the housing is made with TPE giving superior environmental reliability and a quality finish. The antenna can be rotated 90 degrees on the base hinge for ease of placement. Connector mount is fully customizable.

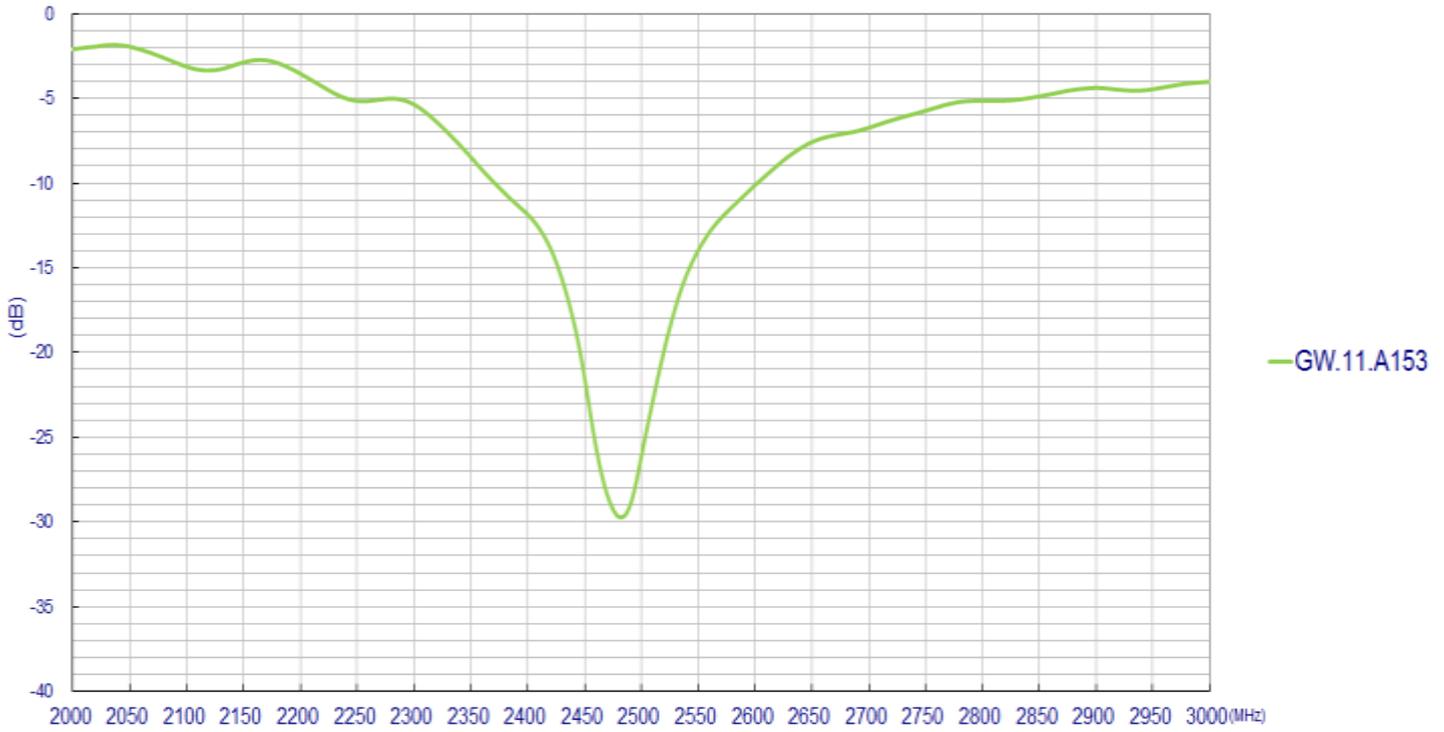
2. Specification Table

Parameter	GSM Band			
Communication System	Bluetooth	WiFi	ZigBee	2.4GHz ISM
	2401-2480	2412-2462	2410-2480	2400-2483.5
Peak Gain (dBi)*	2.3			
Average Gain (dBi)*	-0.88			
Efficiency (%)*	80%			
Return Loss (dB)*	- 10 dB Maximum			
Radiation	Omni-directional			
Polarization	Linear Vertical			
Power Handling	1W			
Impedance	50 Ω			
	MECHANICAL			
Cable	RG-178 Coaxial Cable			
Antenna Cover	TPE			
Antenna Base	PC & PBT			
Color	White			
Connector	RP-SMA(M)			
	ENVIRONMENTAL			
Operation Temperature	-40°C ~ + 85°C			
Storage Temperature	-40°C ~ + 85°C			

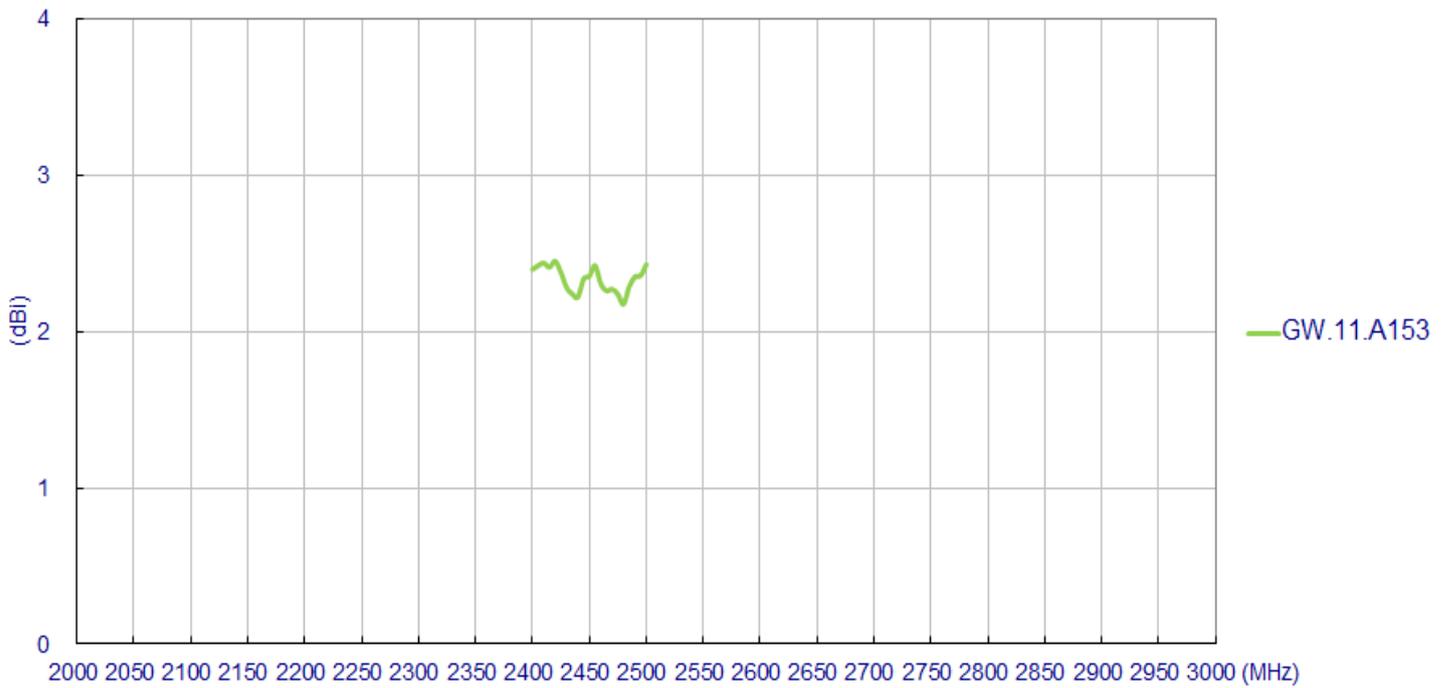
***The antenna was measured in free space.**

3. Antenna Characteristics

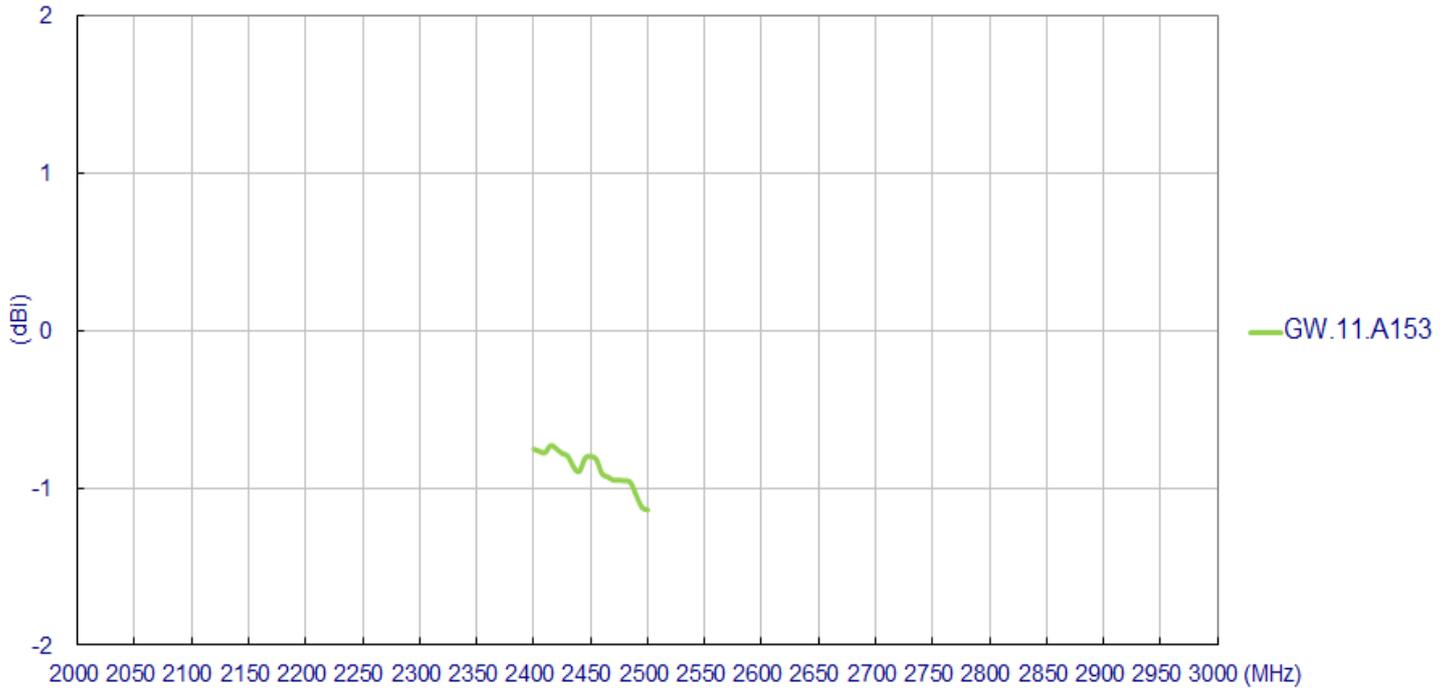
3.1. Return Loss



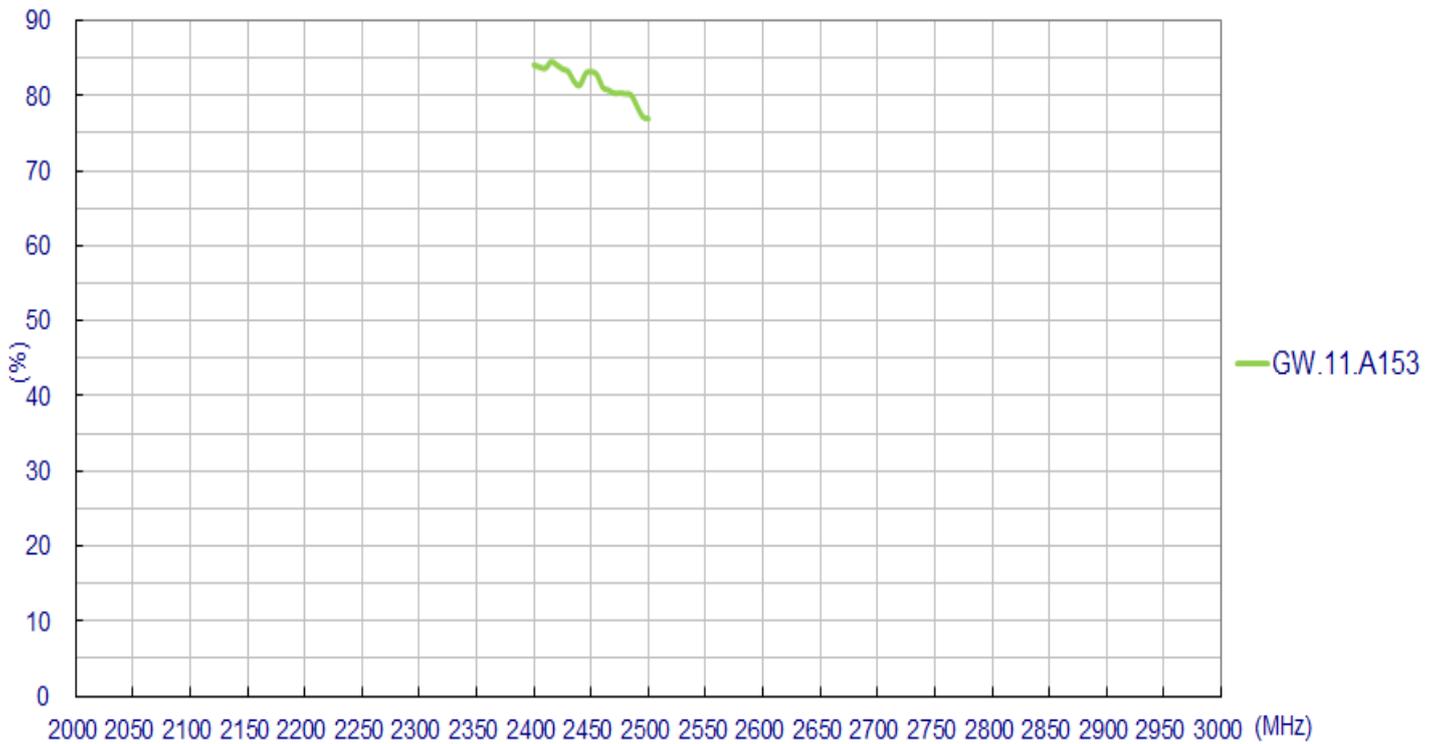
3.2. Peak Gain



3.3. Average Gain

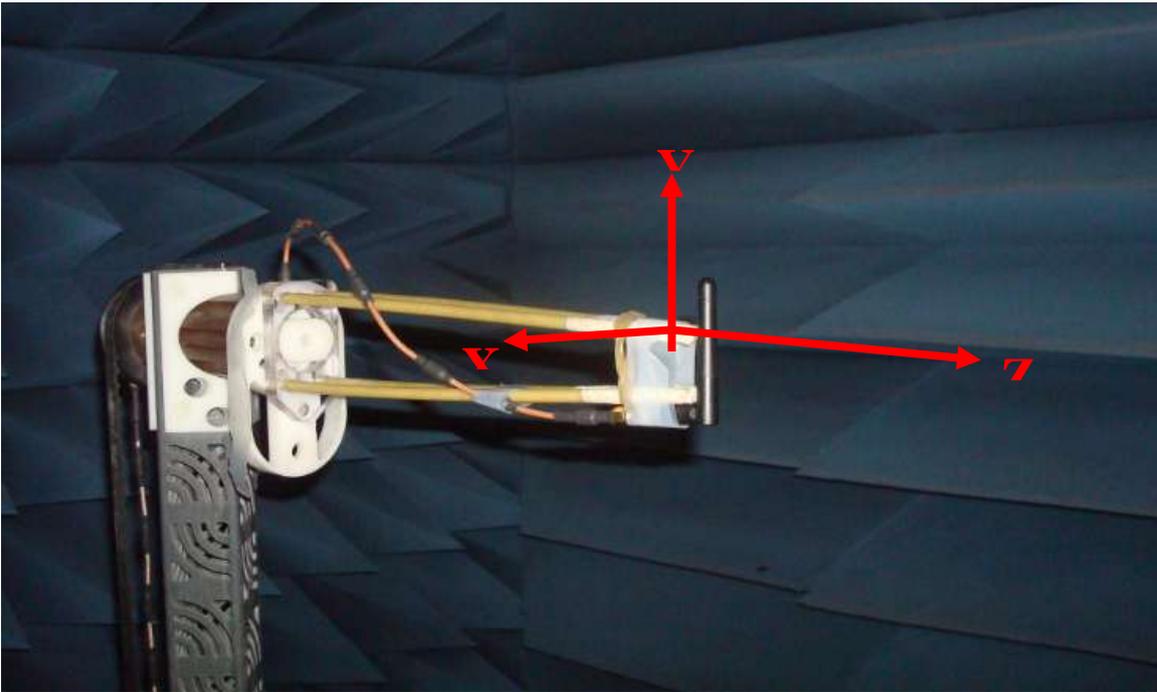


3.4. Efficiency

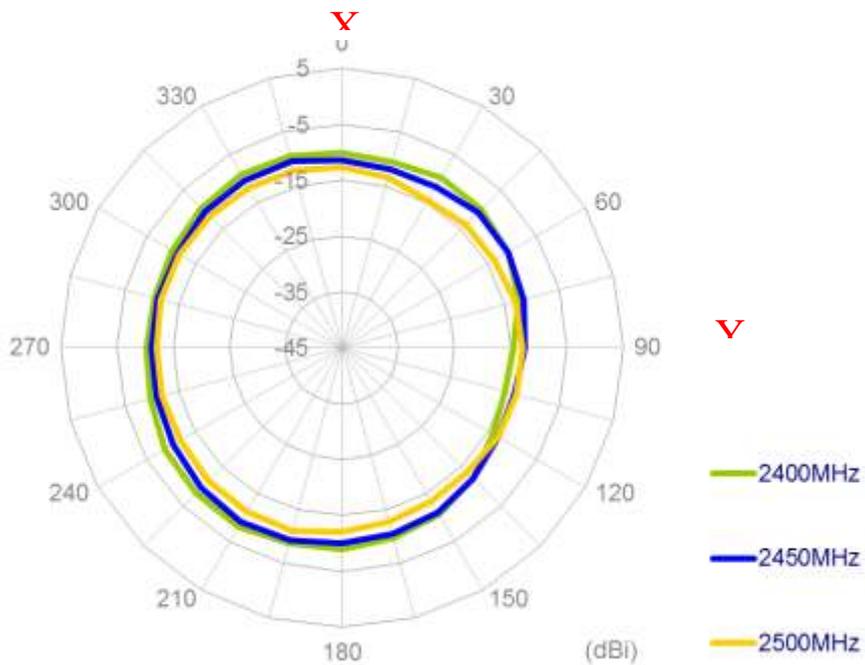


4. Radiation Patterns

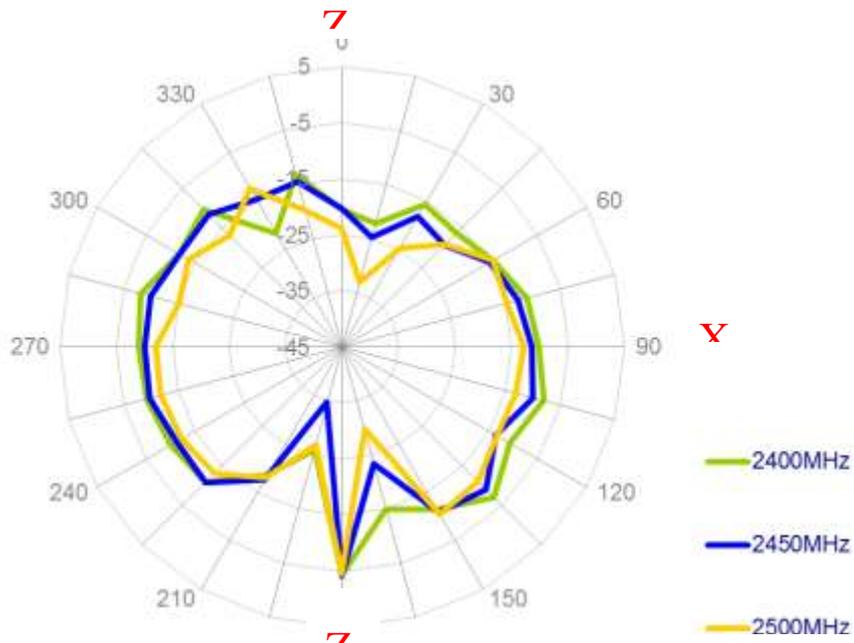
The antenna radiation pattern was measured in ETS Anechoic Chamber. The testing setup is as below. The antenna was measured in free space.



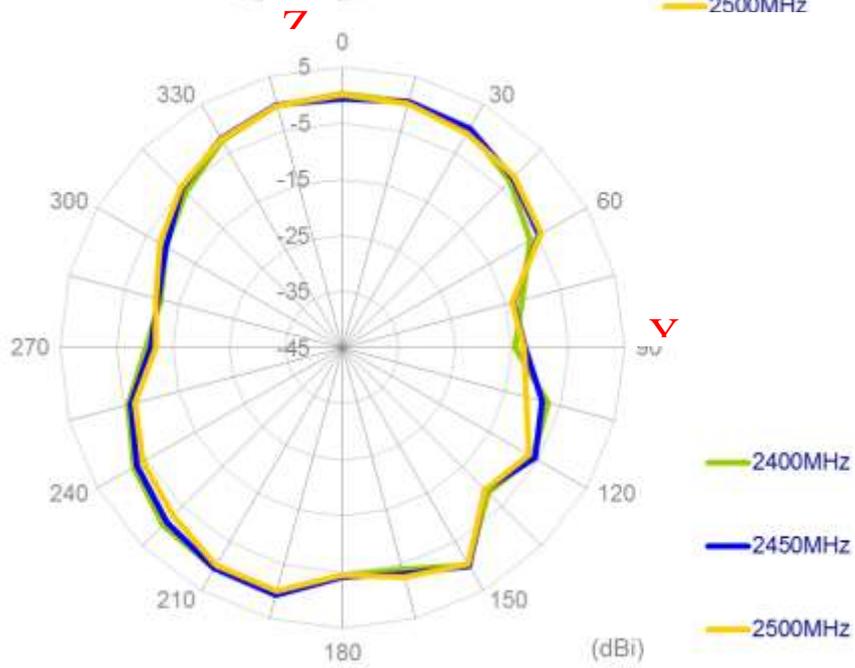
XY Plane



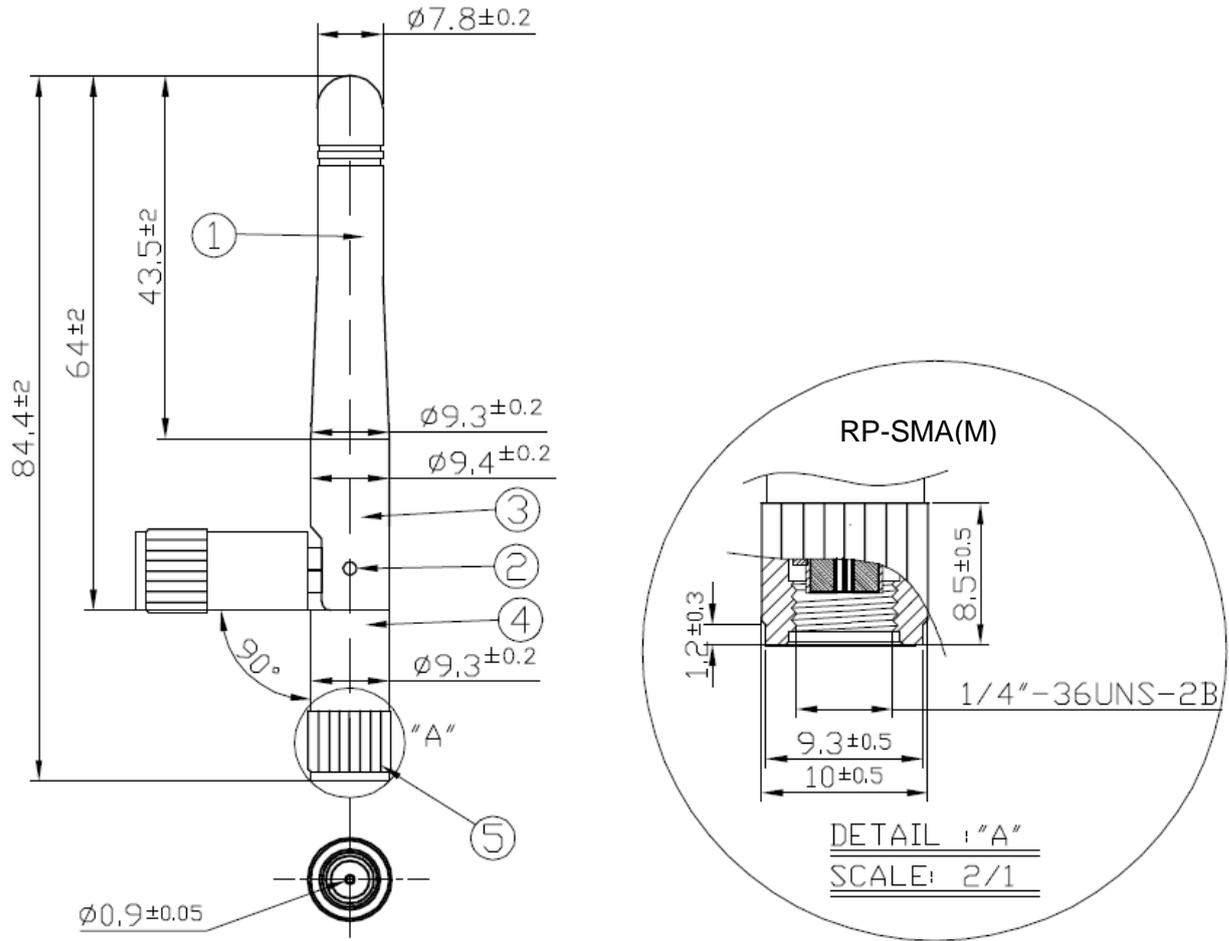
XZ Plane



YZ Plane



5. Drawings and Structure



	Name	P/N	Material	Finish	QTY
①	Antenna Housing	000111J000002A	TPEE	White	1
②	Rotary Shaft	000611J000002A	Brass, Cr	White	1
③	Upper Base	000111J010002A	PC+PBT	White	1
④	Bottom Base	000111J020002A	PC+PBT	White	1
⑤	SMA(M) RP	200211J030002A	PBT+Brass	White	1