

Specification For Approval

Customer Name: _____

Specification Description: SmallFolding Antenna-2.4G-RP-SMA

Inner Nut Pin

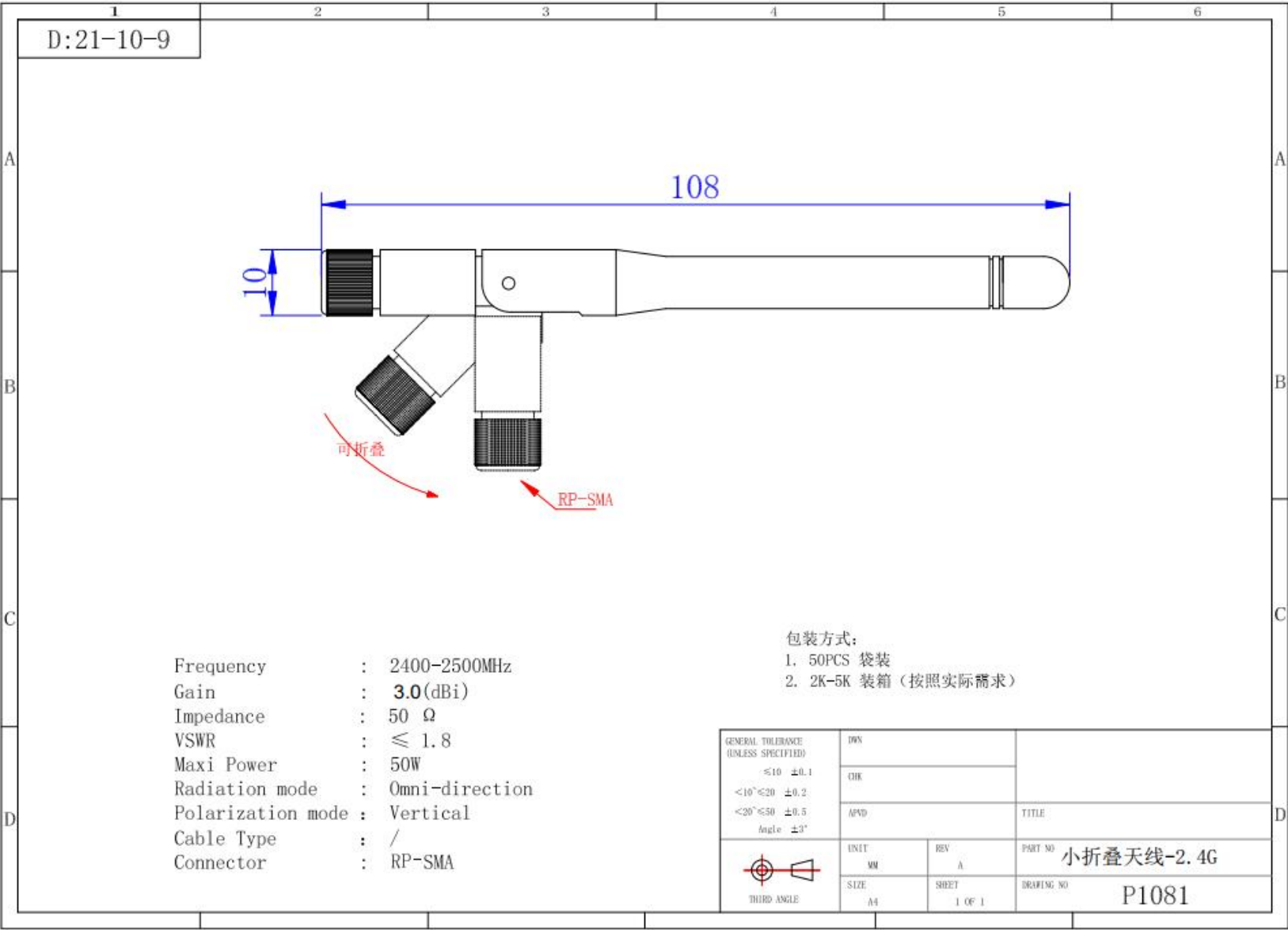
manufacturer: Shenzhen Yimingyuan Technology Co., Ltd

Manufacturer's part number: YMY2023JB108-2400

Customer confirmation		
Confirmation	check	Approver

Manufacturer recognition			
Sales	Drafters	check	Approver
Li Chao	Jiang Xiaoping	Zhang Bin	Ma Feng

一.Product Dimensional Drawing

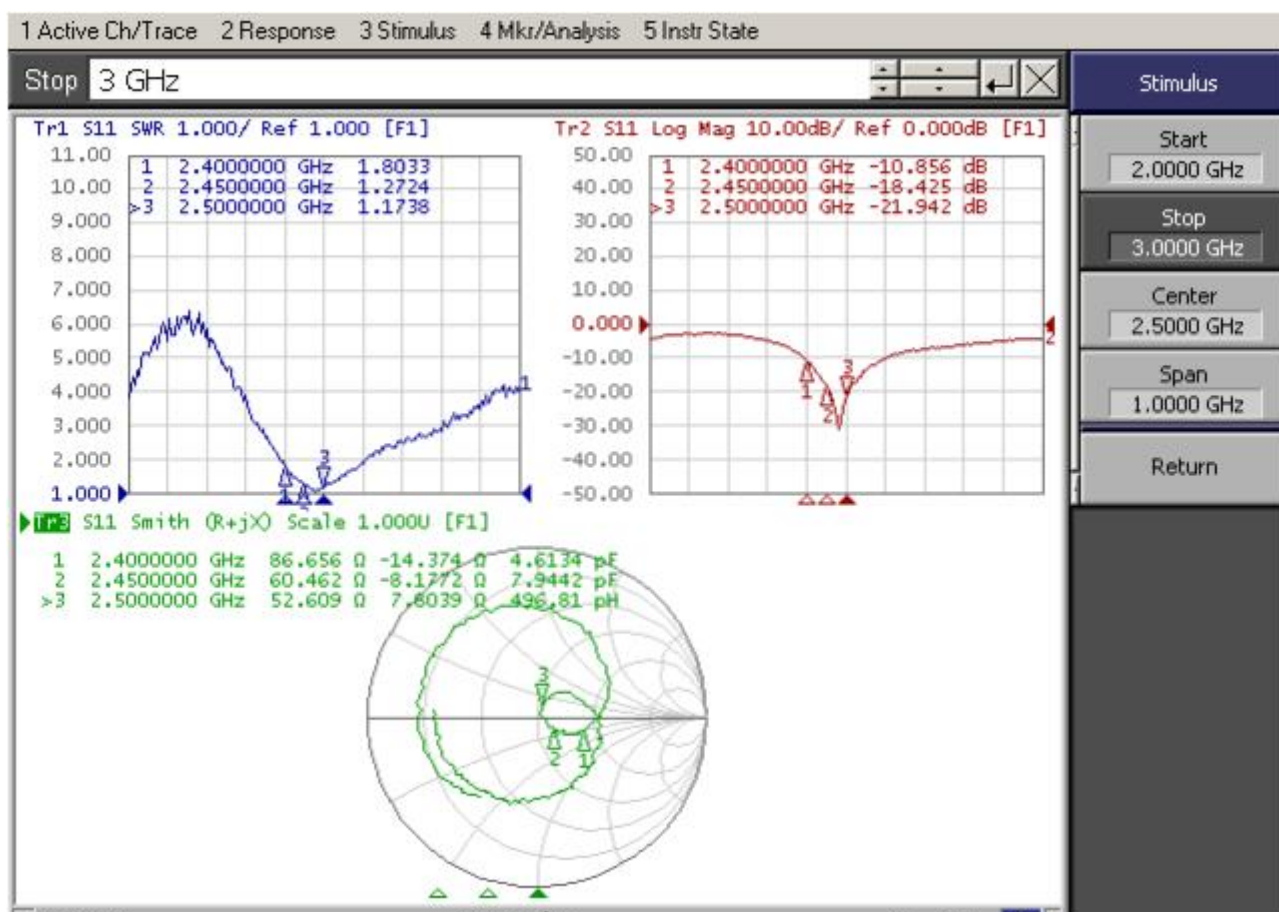


二: Antenna performance:

1 Electrical performance parameters

Electrical performance parameters	
Frequency range (MHz)	2400-2500
standing-wave ratio (dB)	≤ 2.0
gain (dBi)	3
Polarization mode	vertical
impedance (Ω)	50
maximum power (W)	25
Environmental parameters	
operation temperature ($^{\circ}\text{C}$)	$-40\sim+70$
storage temperature ($^{\circ}\text{C}$)	$-45\sim+75$

2 S11 test data



三. Cable head specifications, materials, and coatings

Serial Number	Part Name	material quality	cladding material	notes
1	Inner Conductor	brass	gold-plating	
2	insulator	Teflon PTFE		
3	housing	brass	gold-plating	
4	Plating thickness	gold-plating	1~1.2u"	

Electrical performance

Serial Number	Testing items	TECHNICAL INDEX	notes
1	Characteristic impedance	50 Ω	
2	temperature range	-55~+155℃	
3	Frequency range	0~3GHZ	
4	dielectric withstand voltage	1000V (rms)	
5	contact resistance	Inner Conductor $\leq 3\text{m}\Omega$ OUTER CONDUCTOR $\leq 2\text{m}\Omega$	
6	insulation resistance	$\geq 5000\text{M}\Omega$	
7	vswr	≤ 1.25 (flexible cable)	

三. Environmental Experiment Report:

1High and low temperature constant humidity test

Item number			Product name and specifications	
Test items	High temperature, low temperature, constant humidity test			
test equipment	Humidity Chamber		Number of tests	
Inspection standards	1.The metal surface coating is free of defects such as detachment, cracks, wrinkling, etc; Non metallic parts should not have discoloration, cracks, deformation, degumming, or other phenomena.			
Test Name	Test items	ask	test method	Result determination
High Temperature Test	temperature (℃) Test sample temperature time (h) Test duration (h) recovery time (h)	75±3 1 2 1	Test steps: a) Place the test piece into the test chamber, and then adjust the temperature of the high-temperature chamber to 75 ℃± 3 ℃ to monitor the time. b) After the experiment, place at room temperature for 1 hour and conduct routine inspection.	qualified

Low Temperature	temperature (°C) Test sample temperature time (h) Test duration (h) recovery time (h)	-40±3 3 1 2 1	Test steps: a) Place the test piece into the test chamber, then adjust the temperature of the low-temperature chamber to -40 °C ± 3 °C, and monitor the time. b) After the experiment, place at room temperature for 1 hour and conduct routine inspection.	qualified
Constant damp heat test	temperature (°C) relative humidity (%) Test duration (h) recovery time (h)	+40±3 3 90-95 21 1	a) Place the test piece into the test chamber, and then adjust the temperature of the chamber to +40 °C ± 3 °C, with a humidity of 90-95%. Monitor the time. b) After the experiment, place at room temperature for 1 hour and conduct routine inspection.	qualified
inspector: Lu Xiaojun to examine: Wang Hongkun ratify: Xiao Tianfang				

2Free fall test

Item number			Product name and specifications	
Test items	Free fall test			
test equipment	1 meter high desktop		Number of tests	
Inspection standards	1. When dropped at a height of 1 meter, the product has no peeling, cracking, or other defects, and the appearance has no deformation or other phenomena.			
Test Name	Test items	ask	test method	Result determination
Free fall test	Drop height 1000mm	Falling twice on both sides	Test steps: a) Drop the tested piece from a height of 1000mm and conduct routine inspection after the test.	qualified
inspector: Lu Xiaojun to examine: Wang Hongkun ratify: Xiao Tianfang				

3Salt spray test

Item number			Product name and specifications		
Test items	Fog test				
test equipment	Fog testing machine		Number of tests		
Inspection standards	1.No peeling of the metal surface coating; The appearance shall be free from rust, corrosion, oxidation and other adverse phenomena.				
Test Name	Test items	ask	test method	Result determination	
Salt spray test	1.nacl concentration: 2.air pressure: 3.ph value: 4.Spray amount: 5.Salt water testing temperature setting a.Laboratory temperature: b.Pressure barrel temperature: 6.Test time:	40-60g/1kg 1.0±0.01kgf m² 6.5-7.2 1.0-2.0ml/80c/h。 35±1℃ 47±1℃ 24H	Test steps: a) Adjust the salt spray testing machine to the relevant testing conditions. b) Place the tested piece in a salt spray testing machine and let it stand for 24 hours. After the test, rinse with clean water, visually inspect the appearance of the tested piece, and conduct routine inspections.	qualified	
inspector: Lu Xiaojun to examine: Wang Hongkun ratify: Xiao Tianfang					

四 Product image

