

Customer Name: MEIWEISI

Customer model: _____

Customer part number: _____

Customer specification description: _____

Part Number: FX-W2400-70G

specification description: 2.4G 2dBI White antenna

Manufacturer: Yuanchuangxing electronics (Shenzhen)CO.,LTD.

Address: Building A, No. 164 Junxin Road, NiuHu Community, Guanlan
Street, Longhua District, Shenzhen

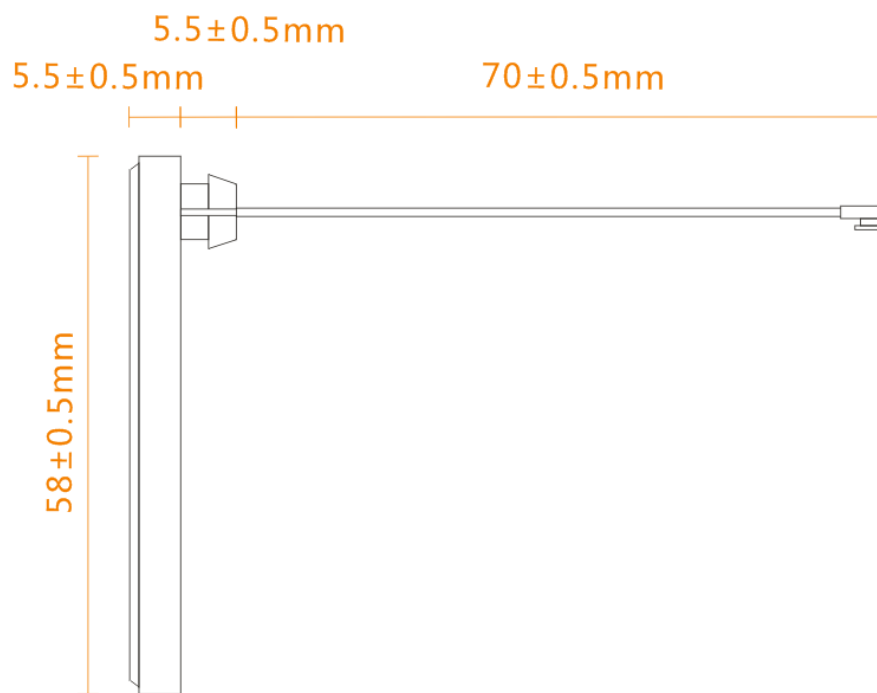
Specification sheet

Confirm signature and seal					
confirmation			Customer confirmation		
Inspector:	Review	Approve	Verify	Review	Approve
<i>zhengyunxia</i>	<i>Wang Chunjiang</i>				
Date	2025/10/23		Date	2025/10/23	

Document Development/Revision/Abolition Resume

[illegible]

Product drawing:



Technical requirements:

1、Electrical parameters:

- Impedance: 50Ω
- Frequency: 2400-2500MHz
- VSWR: < 2.0
- Peak Gain: 2.22dBi
- Polarization: Linear
- Radiation Patten: Omni directional

2、Mechanical properties:

- Storage Temperature Range: $-40 \text{ TO } +85^{\circ}\text{C}$
- Operating Temperature Range: $-40 \text{ TO } +85^{\circ}\text{C}$

3、All material must meet ROHS request:

4、Mark(*)as the key control dimensions

Passive performance testing parameters

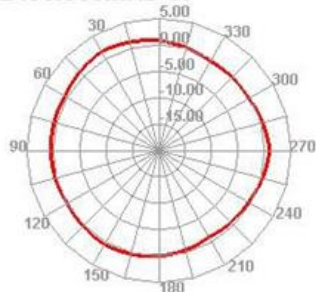
Frequency(GHz)	2.4	2.45	2.5
VSWR	1.43	1.20	1.20



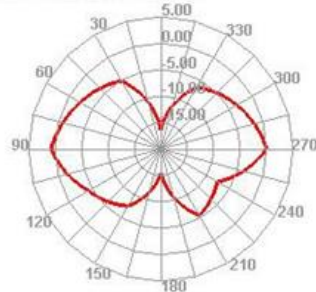
2D and 3D performance charts

Passive Test For WiFi2.4G				
Freq (MHz)	Effi (%)	Gain (dBi)		
2400	70	2.16		
2450	71	2.22		
2500	71	2.11		

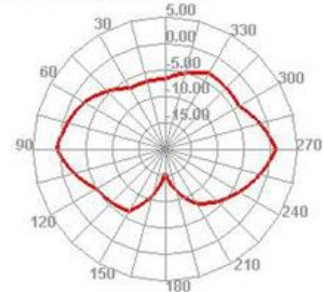
2400.000MHz H



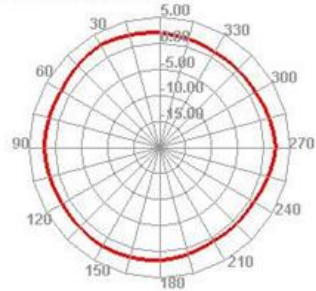
2400.000MHz E1



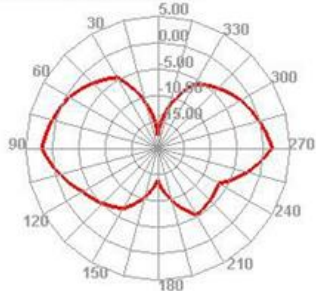
2400.000MHz E2



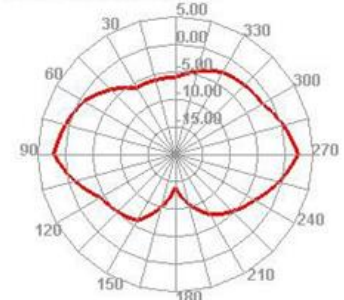
2450.000MHz H



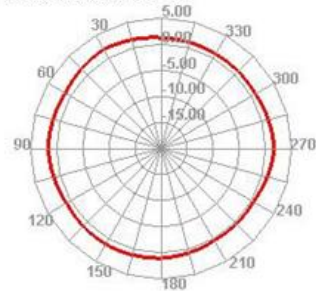
2450.000MHz E1



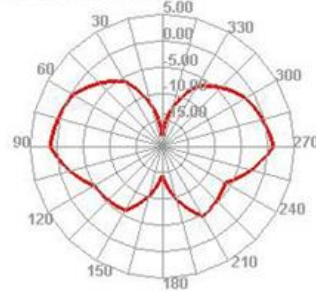
2450.000MHz E2



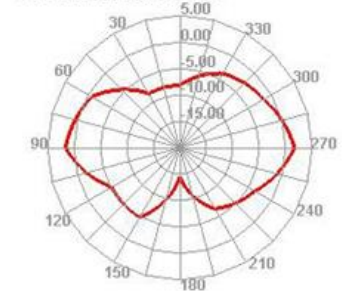
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Electrical performance parameters

Electrical parameters	
frequency range	2.4GHz-2.5GHz
input impedance	50Ω
standing-wave ratio	<2.0
gain	2.22dBi
polarization mode	vertical polarization
Radiation direction	omnidirectional
connection method	IPEX
mechanical parameters	
coaxial cable	RF1.13 Grey
environmental parameters	
Operating Temperature	40~85℃

Reliability Test

1、Constant temperature and humidity test

Experiment/Test Project	Constant temperature and humidity test	Inspection Number:
Product Name/Specification	2.4G white antenna	Test quantity: 5PCS
Inspection Date:2025/10/23		Completion date:2025/10/24
Testing/Inspection Equipment: 1. Programmable constant temperature and humidity experimental chamber 2.8753ES Network Analyzer		
Test/Inspection Conditions: 1. Test at a constant temperature of -40 °C for 12 hours 2. Conduct a 12 hour RH test at+85 ° 65-70% for a total of 24 hours;		
Experimental results		
Judgment criteria: 1. The metal surface has no cracks, wrinkles, separation, etc; Non metallic parts should not have discoloration, cracking, deformation, delamination, or other defects; 2. Electrical testing meets standard requirements; Voltage standing wave ratio test passed		
Test/Inspection Judgment: ☒ Qualified ☐ Unqualified ☐ No judgment made		
Test:  Review: 		

2、 High and low temperature cold and warm shock

Experiment/Test Project	High and low temperature cold and warm shock	Inspection Number:
Product Name/Specification	2.4G white antenna	Test quantity: 5PCS
Inspection Date:2025/10/23		Completion date:2025/10/24
Testing/Inspection Equipment: 1. High and low temperature alternating humidity chamber 2.8753ES Network Analyzer		
Test/Inspection Conditions: -30 °C (2H) - Interval of 80 °C (2H), 6 cycles, for a total of 24 hours;		
Experimental results		
Judgment criteria: 1. The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc; Non metallic parts should not have discoloration, cracking, deformation, delamination, or other defects; 2. Electrical testing meets standards; The voltage standing wave ratio test is qualified.		
Test/Inspection Judgment: ☒ Qualified ☐ Unqualified ☐ No judgment made		
Test:  Review: 		

Specification for Inspection of Structural Component Samples

The inspection results of structural component samples should include the following:			
category	Specification project	category	Specification project
Appearance&Specification Inspection	1. Check the surface for water marks, air marks, shrinkage, whitening, scratches, dents, material marks, oil stains, etc	Reliability performance testing	1. Storage temperature range
	2. Check for peaks, uneven glue flow, broken columns, broken edges, flat water outlets, brittle materials, etc. at corners, rubber columns, limiters, holes, window frames, slot positions, etc		2. Operating temperature range
	3. Enter the corresponding specification screws without whitening, bursting, or slipping teeth		3. Flame retardancy
	4. Check the surface treatment (spray painting, silk screen printing, hot stamping color, silk screen content, treatment effect): ① Check whether the silk screen hot stamping parts are damaged, chipped, oily, ghosting, uneven thickness and missing; ② Whether the oil spray hot stamping parts have uniform oil color, yin-yang color, graining, scratching, miscellaneous color, burning, and impurities, and whether there is any displacement, deviation, or misalignment in the silk screen and hot stamping positions		4. Drop test
			5. 3M adhesive paper/white grid/rubber/alcohol (75%~80% concentration) test (4 items in total, for silk screen printing and oil spraying materials)
Inspection result: Qualified		Inspection result: Qualified	
Sample inspection result: Qualified		Inspector: 	