

Yuanchuangxing Electronics (Shenzhen) Co., Ltd.

Yuanchuangxing electronics (Shenzhen) CO., LTD.

customer name :	Stetjatu
Customer Model:	
Customer ID:	
Customer Specification	2.4G FPC antenna
Description: Yuanchua- ngxing Material Number:	YCX08N-2139-60B
Yuan Chuangxing Specification Descrip- tion:	Built-in 2.4G FPC antenna, black, 1.13 mm diameter, 60 mm length, with terminals

specification

Approval, Signature, Seal					
Source: Chuangxing Star Confirmation			Customer Confirmation		
Sample Preparation	Examine and verify	Ratify	Test and verify	Examine and verify	Ratify
Zouyc					
Yuan Chuangxing signed and stamped the document.			Customer signs and stamps the document		
Date	2026-03-11		Date	2026-03-11	

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Document Creation/ revision/Repeal History Table

[illegible]

3、 Catalogue

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					REV.	CHANGE DESCRIPTION	DATE	SIGNATURE
					A1	New	2023.09.25	zyc

Technical requirements:

1. Electrical parameters:

1.1 Impedance : 50Ω

1.2 Frequency : 2400-2500MHz

1.3 VSWR : < 2.0

1.4 Peak Gain : 2dBi

1.5 Polarization : Linear

1.6 Radiation Patten: Omni directional

2. Mechanical properties:

2.1 Storage Temperature Range: -40 TO +85° C

2.2 Operating Temperature Range: -40 TO +85° C

3. All material must meet ROHS request

4. Mark(△)as the key control dimensions

					TOLERANCE		Yuanchuangxing Electronics (Shenzhen) Co., Ltd.		
					.XXX ±0.05 .XX ±0.1 .X ±0.2 X. ±0.25 XX. ±1 XXX. ±2		Yuanchuangxing electronics (Shenzhen)CO.,LTD.		
					UNIT mmMA-		DRAWN BY zyc CHECKED BY Mike APPROVED BY Sky		PART NO. : YCX08N-2139-60B
							TITLE: Built-in 2.4G FPC Antenna, Black, 1.13 mm wire length, 60 mm, with terminals		
NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION			QTY	UNIT	TERIAL	AS DIMENSION	SCALE : 1 : 1
⑥									CAD FILE:
⑤									DWG TYPE: PRODUCT DRAWING
④					1	PCS			
③	terminal	Golden 1.13 terminal			1	PCS			
②	wire stock	1.13 Black			1	PCS			
①	FPC	black			1	PCS			

8

7

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1

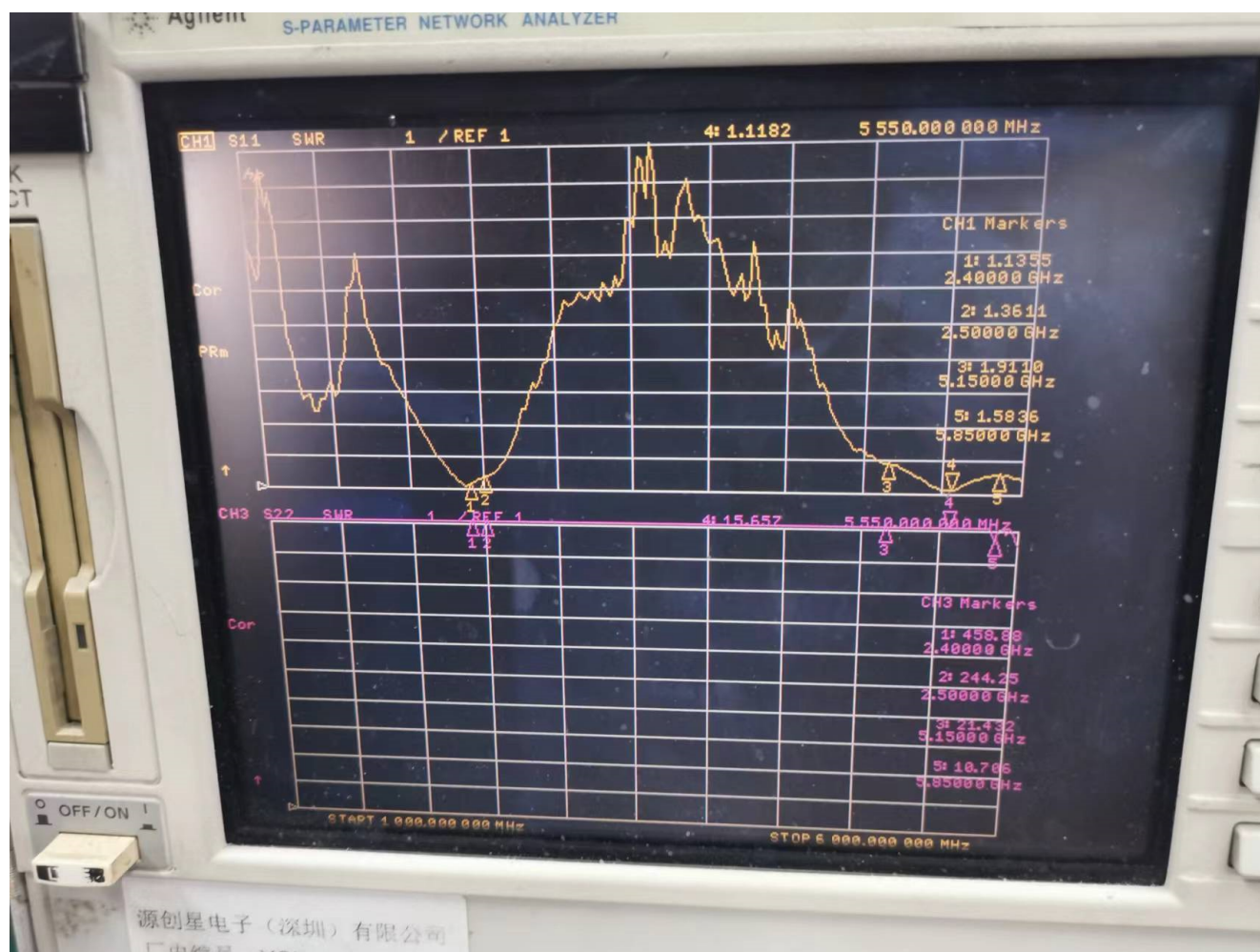
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5、None Source Performance Test Parameters

Frequency(GHz)	2.4	2.45	2.5	5.15	5.55	5.85
VSWR	1.13	1.22	1.36	/	/	/



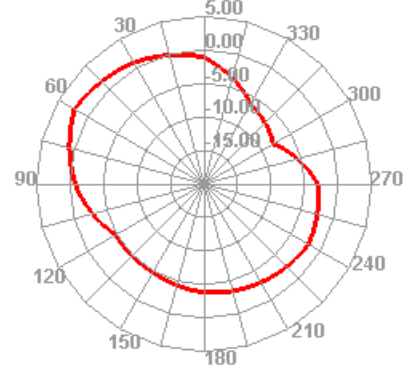
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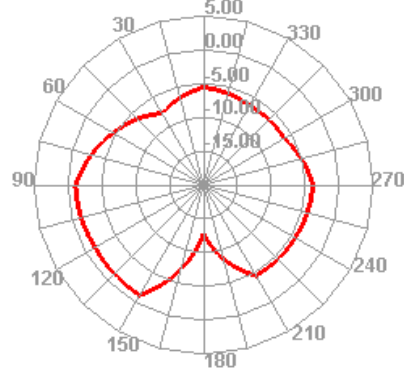
6、 2D and 3D Performance Chart

Passive Test For WiFi				
Freq (MHz)	Effi (%)	Gain (dBi)		
2400	60	2.01		
2450	61	2.11		
2500	60	2.21		

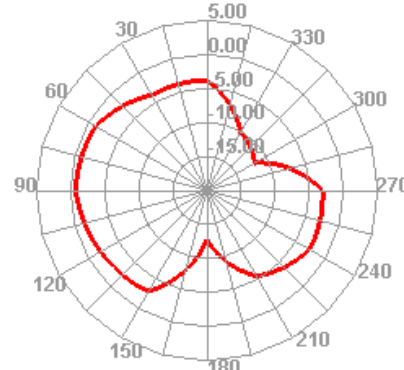
2400.000MHz H



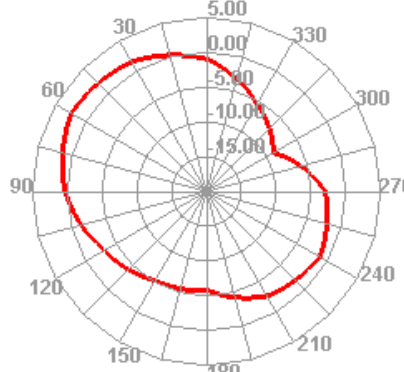
2400.000MHz E1



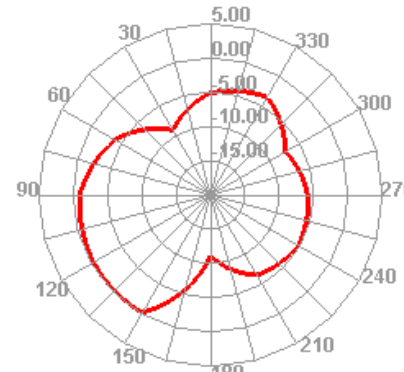
2400.000MHz E2



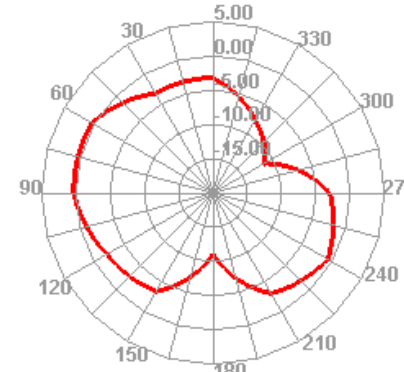
2450.000MHz H



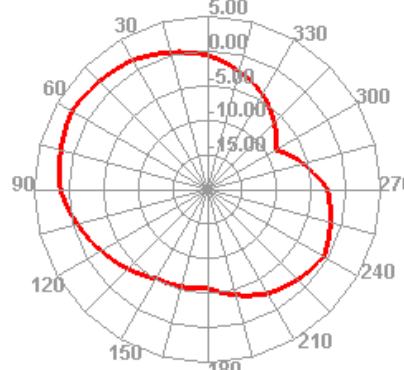
2450.000MHz E1



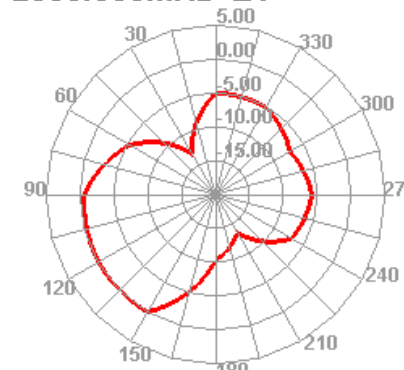
2450.000MHz E2



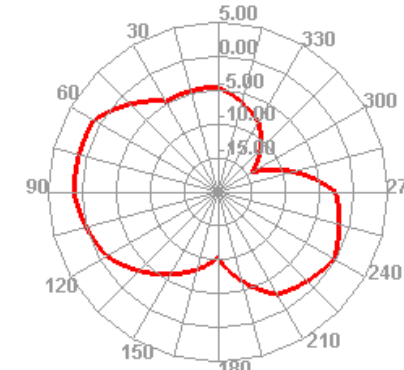
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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7、Electrical Performance Parameters

Electrical Parameters	
Frequency range	2. 4GHz-2. 5GHz
Input impedance	50Ω
Standing wave ratio	<2. 0
Gain	2dBi
Polarization Method	Vertical polarization
Radiation direction	Omnidirectional
Connection Method	IPEX
Mechanical Parameter	
Line length	
Maintenance energy	
Coax	
Salt Spray Test	
Enviromental parameter	
Working temperature	-40~85℃

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8、 Reliability Test Report

8.1. Steady Temperature Damp Test

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8.2 High and Low Temperature Thermal Shock

Test/Test Item	High and low temperature thermal shock	Inspection Order Number
Product Name/Specification	WIFI 2.4G antenna	Number of trials: 5PCS
Date of submission: 2026-03-10	Completion Date: 2026-03-11	
Testing/inspection equipment: 1. High and Low Temperature Alternating Humid Heat Chamber 2.8753ES Network Analyzer		
Test/Inspection Conditions: -30°C (2 hours)---followed by 80°C (2 hours) intervals, repeated 6 times for a total of 24 hours;		
End of test		
Requirement : 3、 The metal surface coating shall be free from peeling, cracking, wrinkling, or separation; non-metallic areas shall not exhibit discoloration, cracking, deformation, adhesion failure, or other defects. 4、 The electrical tests comply with the standards; the voltage standing wave ratio test passed.		
Test/Inspection Conclusion:		
☒Qualified☐Unqualified☐Do not make a judgment		
Test: Li ChunqiangReview: Wang Chunjiang		

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Specifications for Testing Samples of Structural Components			
The inspection results for structural component samples shall include the following:			
Class	Specification Item	Class	Specification Item
① Appearance & Specifications Kerchikov test	1、Examine the surface for the presence of water stains, air pockets, shrinkage, whitening, scratches, impacts, material imperfections, or oil stains.	③ Reliability Performance Test	1、Storage temperature range
	2、Check corners, adhesive pillars, limit positions, hole openings, window grids, and slot positions for issues such as uneven coating peaks, misaligned adhesive application, broken pillars, chipped edges, flattened water outlets, or brittle materials.		2、operating temperature range
			3、fire resistance
	3、Insert the screw according to the specified specifications; there should be no whitening, cracking, or thread slippage.		4、fall-down test
	4、Inspect the surface treatment (oil spraying, screen printing, gold stamping colors, screen printing content, and treatment quality): ① For screen-printed gold stamping parts—check for defects such as missing edges, chipping, grease residue, double imaging, uneven thickness, or missing areas; ② For oil-sprayed gold stamping parts—assess uniform oil color distribution, positive/negative color contrast, particle formation, scratches, color contamination, scorch marks, and impurities; verify that screen printing and gold stamping positions are accurately aligned without deviation or misalignment.		5、3M adhesive tape/white grid/rubber/alcohol (75%–80% concentration) test (4 items in total, applicable to screen-printed and ink-jet materials)
	Test result: Pass		Test result: Pass
	Remarks		Remarks
② Size & Machine Mechanical Performance	1、Figure size inspection (according to the tolerance range, focus on checking dimensions marked or specified by CPK)	④ material quality & pack Etc. ⑤⑥ Others	1、Material Composition Report Confirmation
	2、Confirm the tightness of the flatness test when combined with other accessories		2、Packaging method and other precautions:
	3、Light transmission test confirmation for lenses and light guide columns		
	Test result: Pass		Test result: Pass
	Remarks		Remarks
Sample fitting inspection result: Qualified		Inspection Responsible Person: Zheng Yunxia	