

Shenzhen Yuanchuangxing Electronics Co., Ltd.

Yuanchuangxing electronics (Shenzhen)CO.,LTD.

client's name:	Generals
Client Type:	
Customer Part Number:	
Customer Specifications:	
Source Star Material Number:	YCX08W-W704-SMA
Yuanchuangxing Specification Description:	White Blade 2.4G 5DBI SMA Male Female Antenna

Specifications

Confirm signature and seal					
Source Star confirmed			client confirmation		
Sample preparation review	Approval		Verification Review	Approval	
Zou Yangchen	Wang Chunjiang				
Yuanchuangxing signed cover			Customer signature and stamp		
Date	2023-2-13		Date	2023-2-13	

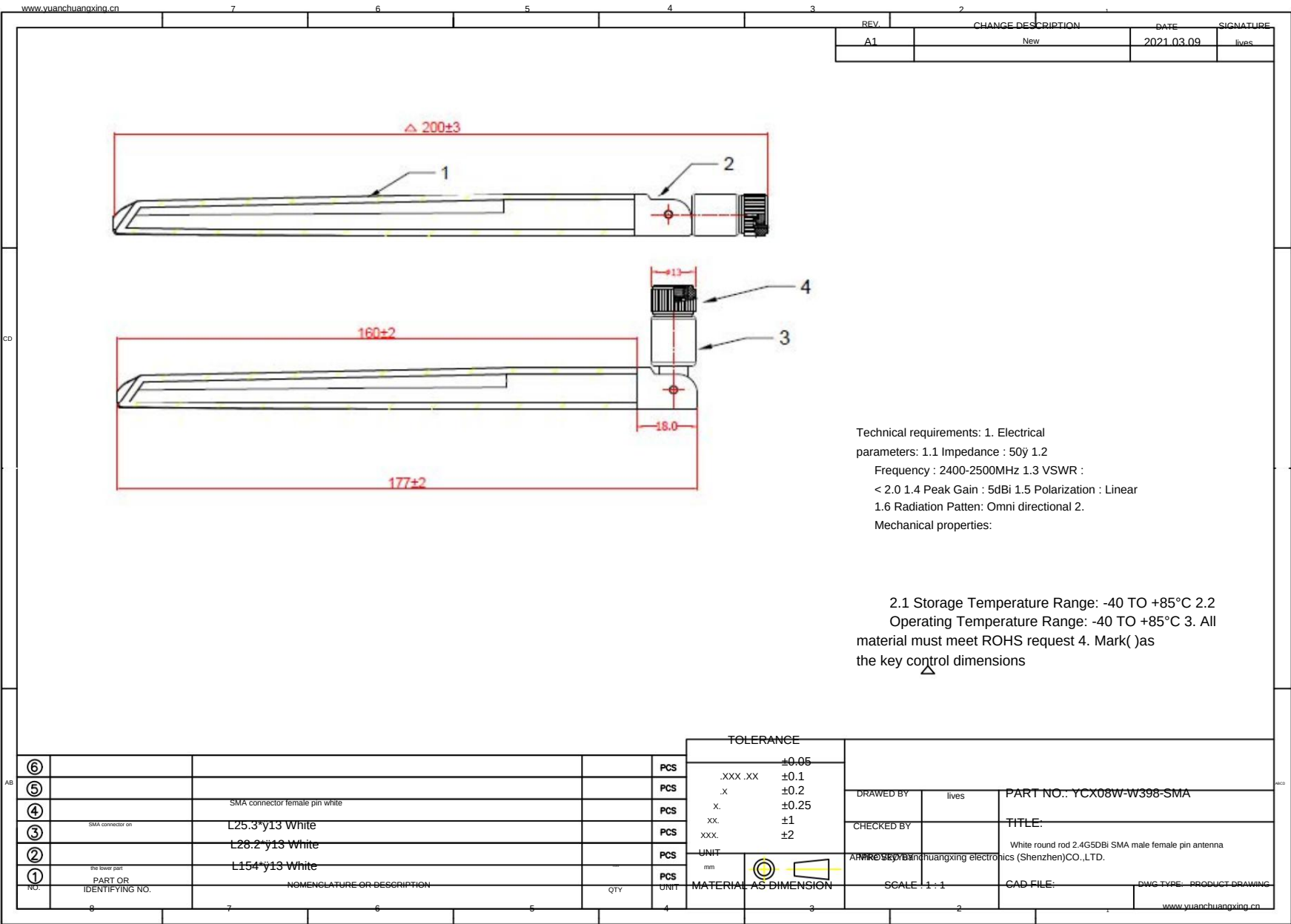
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4. Product drawings

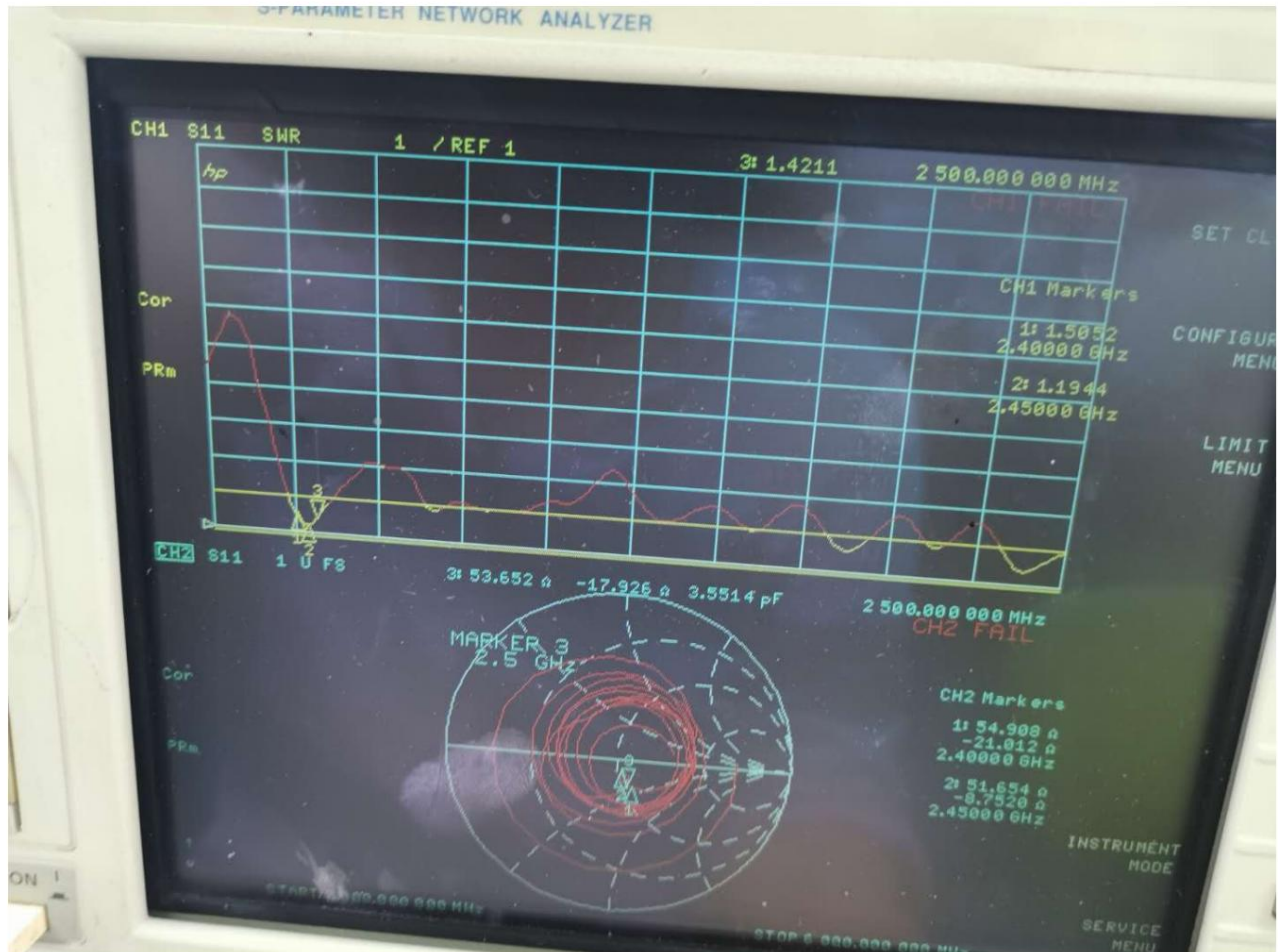


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5. Passive performance test parameters

Frequency(GHz)	2.4	2.45	2.5
VSWR	1.58	1.19	1.42



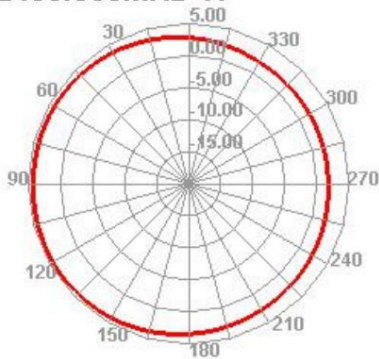
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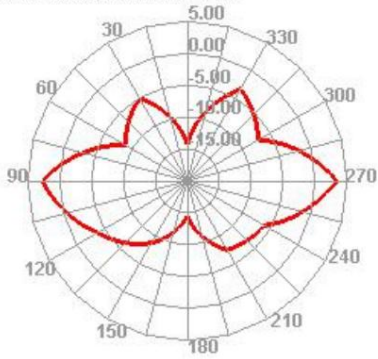
6. 2D and 3D performance graphs

Passive Test For WiFi2.4G				
Freq (MHz)	Effi (%)	Gain (dBi)		
2400	80	4.61		
2450	80	4.34		
2500	78	4.60		

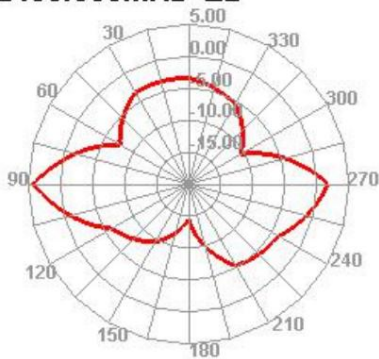
2400.000MHz H



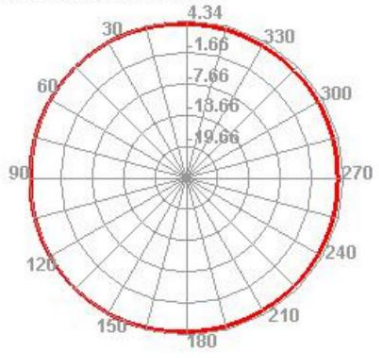
2400.000MHz E1



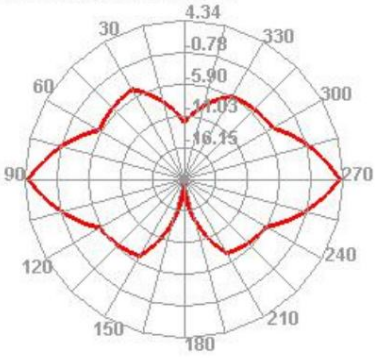
2400.000MHz E2



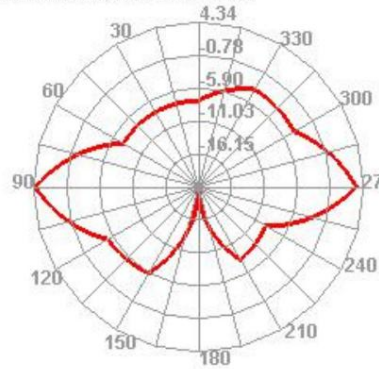
2450.000MHz H



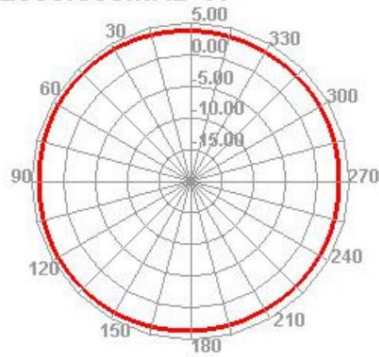
2450.000MHz E1



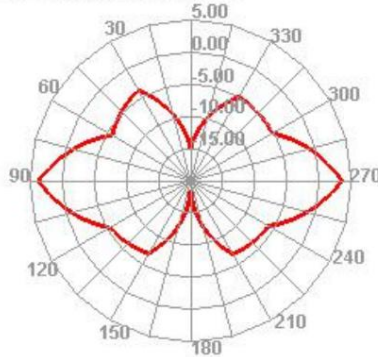
2450.000MHz E2



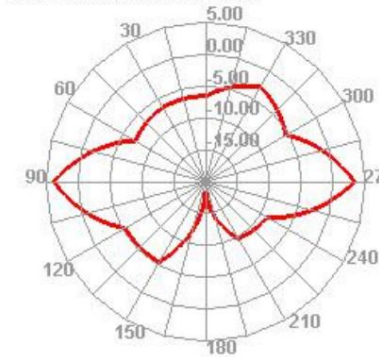
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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7. Electrical performance parameters

Electrical parameters		
Frequency Range		2.4GHz-2.5GHz
input resistance		50ÿ
VSWR		<2.0 Control sample test pattern
Gain	2.4G-2.5G	5±1dBi
	5.15G-5.85G	
Polarization mode: vertical polarization		
Radiation direction: omnidirectional		
Connection methodSMA		
Mechanical parameters		
See line length		
Sustainability		
Coaxial cable RG178 Brown		
Salt spray test 24H		
Environmental parameters		
Operating temperature		-40~85ÿ

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8. Reliability test report

8.1. Constant temperature and humidity test

Test/Test Item Constant temperature and humidity test	Inspection order number	
Product Name/Specifications	2.4G-5dBi White SMA Antenna	Test quantity: 5PCS
Inspection date: 2023-2-10		Completion date: 2023-2-11
Test/inspection equipment: 1. Programmable constant temperature and humidity test chamber 2.8753ES Network Analyzer		
Test/inspection conditions: 1. Test at -40ÿ for 12 hours 2. +85°65ÿ70%RH test for 12 hours, a total of 24 hours;		
test results		
judgement standard: 1. There should be no cracks, wrinkles, separation, etc. on the metal surface; the non-metallic part should not have discoloration, cracking, deformation, degumming, etc.; 2. The electrical test meets the standard requirements; the voltage standing wave ratio test is qualified		
Test/inspection judgment: ÿQualified ÿUnqualified ÿNo judgment		
Test: Li Chunqiang Reviewer: Wang Chunjiang		

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8.2 High and low temperature thermal shock

Test/Test Items High and low temperature thermal shock		Inspection order number
Product Name/Specifications 2.4G- 5dBi White SMA Antenna		Test quantity: 5PCS
Inspection date: 2023-2-10		Completion date: 2023-2-11
Test/inspection equipment: 1. High and low temperature alternating humidity chamber 2.8753ES Network Analyzer		
Test/inspection conditions: -30℃ (2H) --- 80℃ (2H) interval, 6 cycles, 24 hours in total;		
test results		
judgement standard: 3. The metal surface coating should not peel off, crack, wrinkle, separate, etc.; the non-metallic part should not change color, crack, deform, debond, etc. good; 4. The electrical test meets the standards; the voltage standing wave ratio test is qualified.		
Test/inspection judgment: Qualified	Unqualified	No judgment
Test: Li Chunqiang Reviewer: Wang Chunjiang		

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Structural parts sample inspection			
specification Structural parts sample inspection results should include the following:			
Category	Specifications 1.	Category	Specifications
γ Appearance & Specification Inspection	Check the surface for water marks, air marks, shrinkage, whitening, scratches, bruises, material spots, oil marks, etc.	γ Reliability performance test	1. Storage temperature range
	2. Check the edges, corners, glue columns, limiters, holes, window panes, slots, etc. for peaks, uneven glue flow, broken columns, edge collapse, flat nozzles, brittle materials, etc.		2. Operating temperature range
			3. Smoldering
	3. After driving the corresponding screws, there should be no whitening, cracking or slipping.		4. Drop test
	4. Check the surface treatment (spraying, silk screen printing, hot stamping color, silk screen content, treatment effect: γ Silk screen hot stamping parts---whether there are incomplete, toothed, fat oil, double images, uneven thickness and missing; γ Spraying hot stamping parts---whether the oil color is uniform, yin and yang colors, grains, scratches, variegated colors, burning and impurities, etc., whether the silk screen and hot stamping positions are out of place, skewed, or misaligned		5. 3M tape/white grid/eraser/alcohol (75%~80% concentration) test (4 items in total, for silk screen printing and spraying materials)
	Test result: qualified		Test result: qualified
	Note 1.		Note 1:
γSize & Mechanical Properties	Graphic dimension inspection (according to the tolerance range, focus on the dimensions with CPK marks or instructions)	γMaterial & Packaging, etc. γγOthers	Confirmation of material composition report
	2. Flatness test and confirmation of tightness of fit with other accessories 3.		2. Packaging method and other precautions:
	Transmission test and confirmation of lenses and light guides		
	Test result: qualified		Test result: qualified
	Remark		Remark
Sample test results: qualified Person in charge of inspection: Zheng Yunxia			