

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

CUS PARTNO: _____ WWXL-GTI-WIFI-V1-0

PARTNAME: _____ Built-in antenna

TPTPART NO: _____ WWXL6013650

VERSION: _____ 1.0

CUS STAMP:

DATE:

Purchasing Dept	Engineering Dept	Approval

WWXL:

Date: July 27, 2026

Engineering Dept	Sales Dept	Approval
Dai Hongbo		Tong Xiaoyan



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All things connected Communication Xiangyang Co.,Ltd.

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have beengiven.

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Add: Hubei Xiangyang Gucheng County 1-3 Shuang Yang Road Taoyuan Street, All things connected industrial park,

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URL: www.wwxltx.cn

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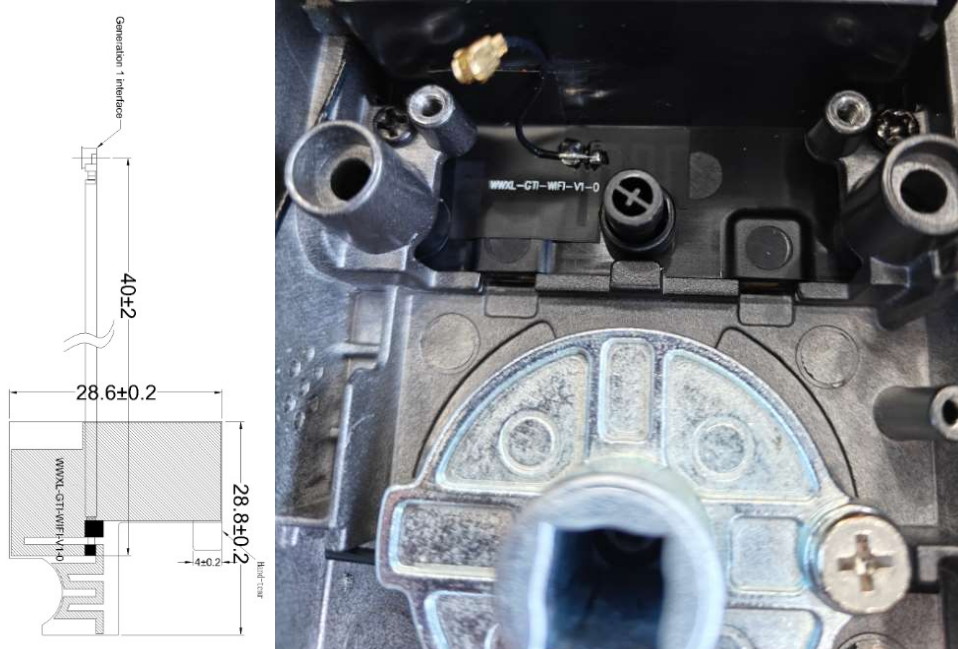
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Specification for Antenna

一、Product pictures (For reference only)

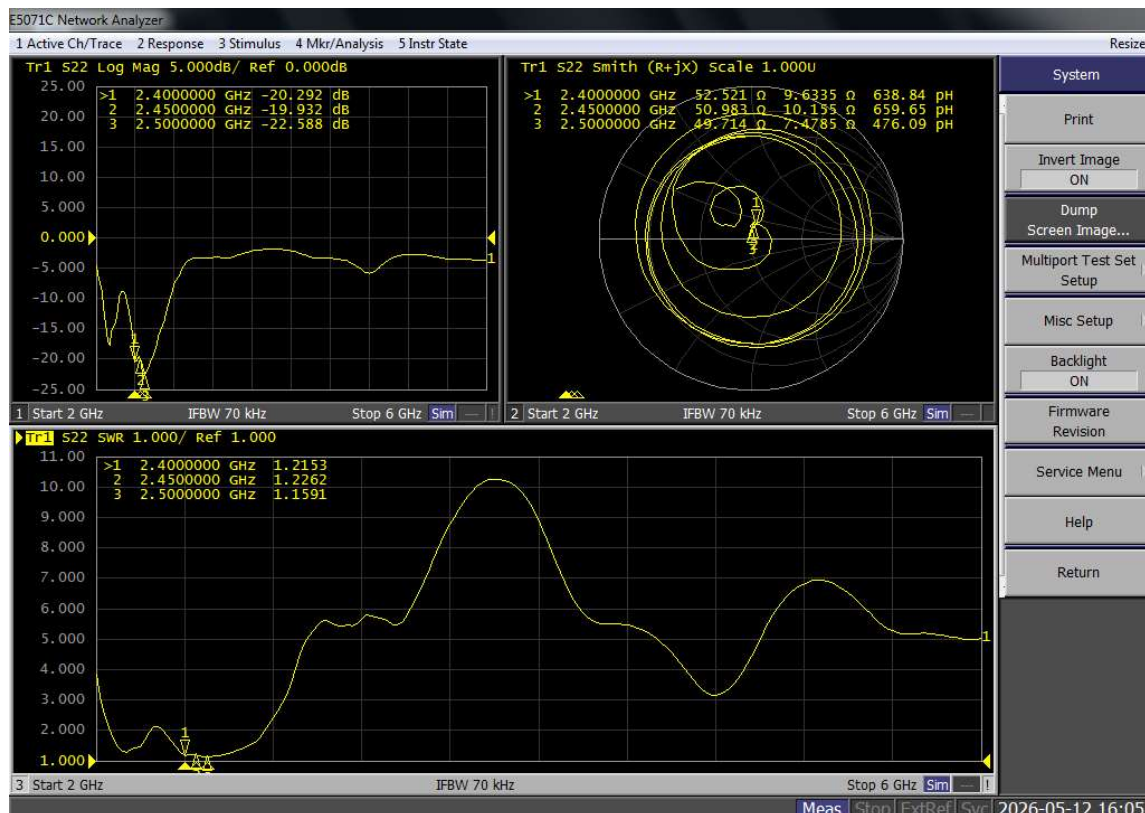


二、Test parameters

Name: WIFI antenna (WWXL6013650)		ModelType	
ELECTRICAL SPECTFICATIONS		MECHICAL SPECTFICATIONS	
FrequencyRange 2400-2500MHZ		Dimensions	28.8*28.6*0.2mm
Impedance	50 Ω	Connector	IPEX
VSWR	≤ 2.5	Coaxial-cable	RG0.81 black L=40 $\pm$ 2mm
Gain	3.33dBi	WorkingTemperature	-45°C - +85°C
Polarization	linear Vertical	Limit Temperature	-45°C~+85°C
Radiation	Omnidirectional		

三、Antenna Passive Parameters:

1. VSWR



2. Gain&Efficiency:

Gain&Efficiency&PhaseCenter								
frequency (MHz)	Gain (dBi)	efficiency (%)	frequency (MHz)	Gain (dBi)	efficiency (%)	frequency (MHz)	Gain (dBi)	efficiency (%)
2400	3.53	60.85						
2410	3.12	57.6						
2420	2.94	55.7						
2430	3.05	56.52						
2440	3.18	58.46						
2450	3.36	60.59						
2460	3.3	61.1						
2470	3.4	62.28						
2480	3.35	62.54						
2490	3.6	63.75						
2500	3.83	65.39						

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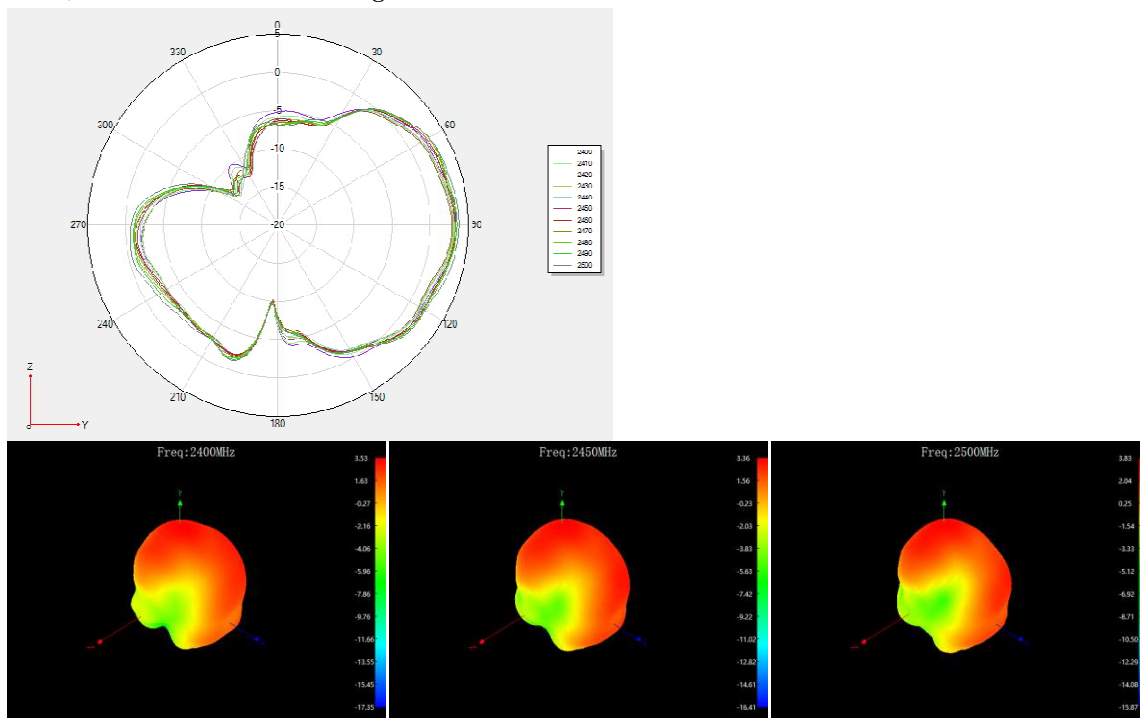
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3. 2D/3D directional diagram

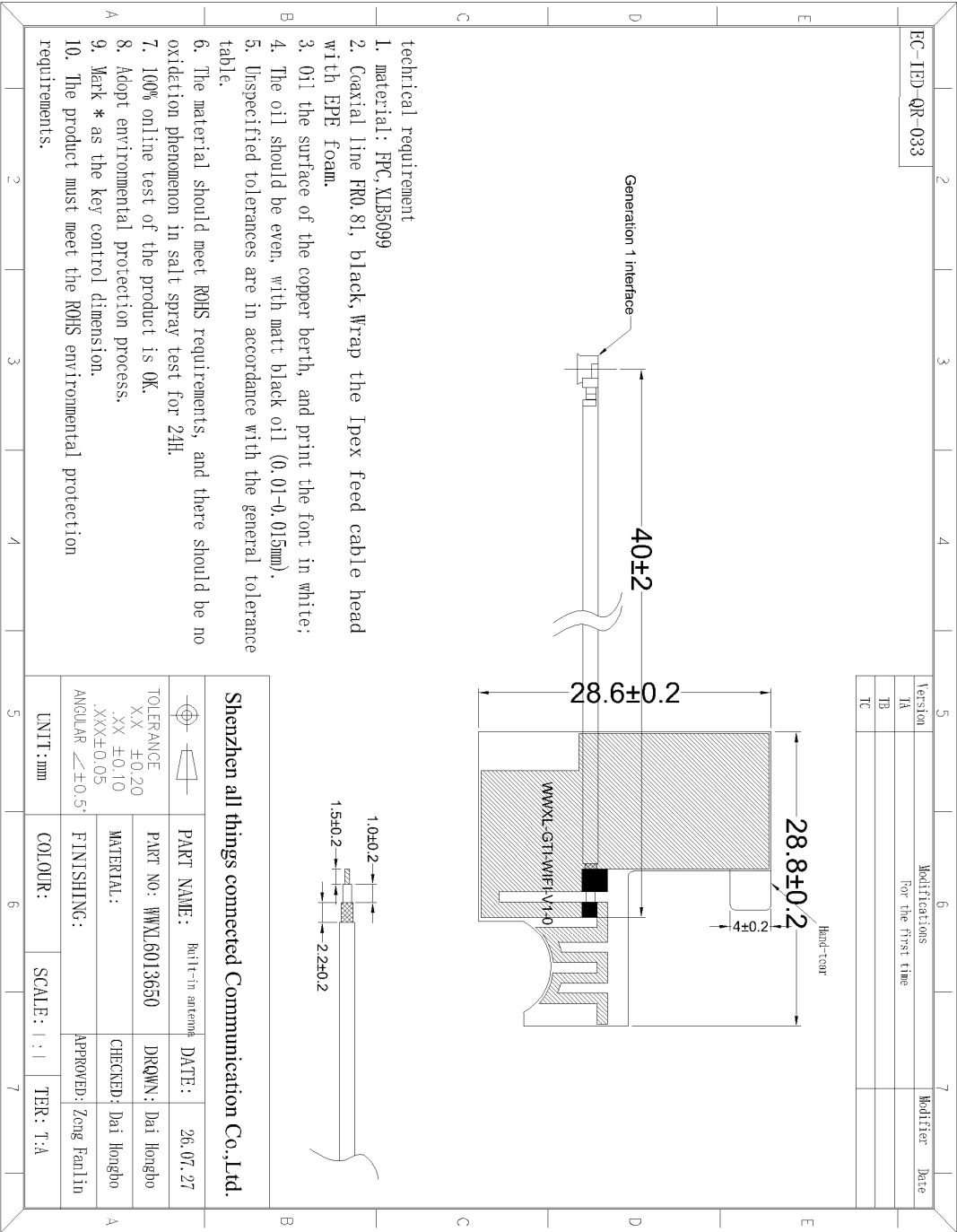


四、Product characteristics

1. Choose high-quality FPC and radio frequency cable, self-attenuation;
2. Stable performance, long life;
3. The standing wave in frequency band is good.

五、Drawing

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六、Reliability testing

1、Environmental experiment

High and low temperature and humidity test report						
test project	High temperature, low temperature and constant humidity test					
name	Built-in antenna (WWXL6013650)		date		2026.07.27	
device	Constant temperature and humidity test box network analyzer		Quantity		5PCS	
Inspectin standards	1. There are no defects such as peeling off, cracks, wrinkles, etc. on the metal surface; non-metal parts must not have defects such as discoloration, cracking, deformation, degumming. 2. The electrical test meets the design requirements; the voltage standing wave ratio test is satisfactory.					
Test name		request	experiment method	Actual test data	result	
					sample	Assessm ent result
High temperature test	Temperature (°C) Test sample temperature stabilization time (H) Test duration (h) Recovery time (h)	+85±3 1 2 1	9 according to GB2423. 1-89 Method	+87 1.2 2.3 1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified
Low temperature test	Temperature (°C) Test sample temperature stabilization time (h) Test duration (h) Recovery time (h)	-45±3 1 2 1	8th in accordance with GB2423. 1-89 Method	-46 1.2 2.4 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified
Constant Damp Heat Test	Temper ature (°C) Relative humidity (%)	+40±2 90-95 21 1	According to GB2423. 3-93 Section 5 Method	+42 92 22 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified

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	Test duration (h) Recovery time (h)				5	qualified
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b. Salt spray test

Salt fog test report				
Test item	Salt spray test			
Name	Built-in antenna (WWXL6013650)		date of observation	2026.07.27
Device name	Salt spray corrosion test box		Test quantity	5 PCS
Test method	The test samples were put into the modulated salt solution test chamber and salt spray corrosion chamber for continuous spray test			
Salt solution concentration	52g/L	PH Value of Salt Solution: 6.5-7.2		Test cycle: 24h
Actual test data	55g/L	PH Value of Salt Solution: 6.8		Test cycle: 26h
Test standard	Tests were carried out according to GB/T10125 "Artificial Atmosphere Corrosion Test and Salt Spray Test"; Results According to GB/T6461-2002 "Metal and other inorganic coatings on metal substrates after corrosion test are samples and specimens"			
Test result				
NO	Corrosion resistance grade	Actual test data	Assessment result	Remarks
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	

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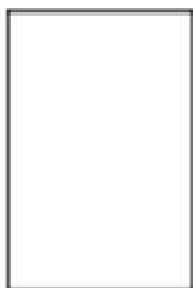
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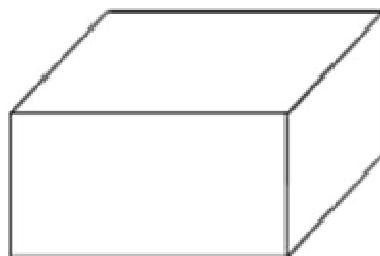
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七. Packing instructions



100PCS/Pouch



30Pouch/1Caron