

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

CUS PARTNO: _____

PARTNAME: Built-in antenna

TPTPART NO: WWXL6009956

VERSION: 1.0

CUS STAMP:

DATE:

Purchasing Dept	Engineering Dept	Approval

WWXL:

DATE: April 11, 2024

Engineering Dept	Sales Dept	Approval
DaiHongbo		Tongxiaoyan



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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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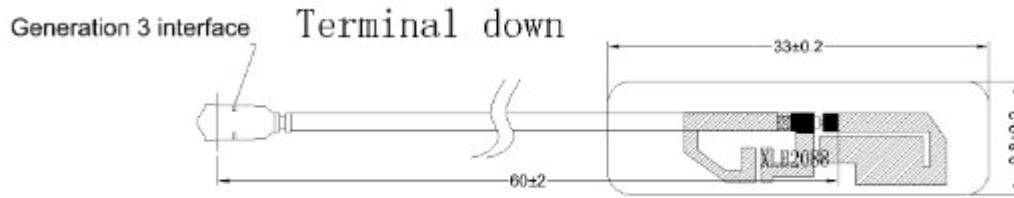
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Specification for Antenna

1.Product pictures



2.Test parameters

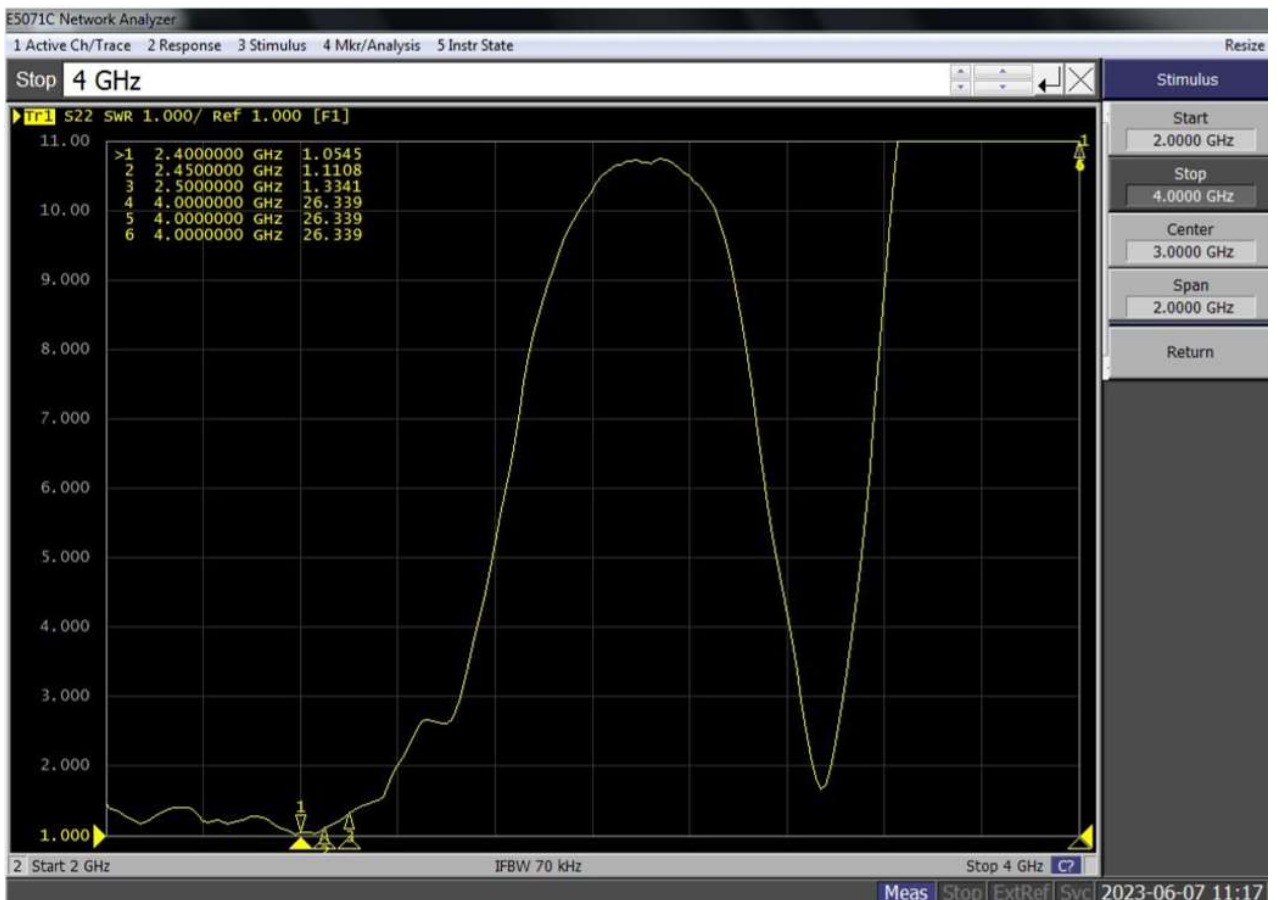
Name Built-in antenna (WWXL6009956)		ModelType	
ELECTRICAL SPECTFICATIONS		MECHANICAL SPECTFICATIONS	
FrenquencyRange 2400-2500MHZ		Dimensions	33*9.8*0.2mm
Impedance	50 Ω	Connector	IPEX
VSWR	≤3.0	linelength	RF081 BLACK 60±2mm
Gain	3.0dBi	WorkingTemperature	-45℃ - +85℃
Polarization	linear	Limit Temperature	-45℃ - +85℃
Radiation	Omnidirectional		

Antenna type: PIFA Antenna

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3. Antenna Passive Parameters:

a. VSWR:



4. Product characteristics

- a. Selection of high-quality FPC and radio frequency cable, self-attenuation;
- b. Stable performance, long service life;
- c. Standing wave in frequency band is good.

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6. Reliability testing

a . Environmental experiment

High and low temperature and humidity test report						
test project	High temperature, low temperature and constant humidity test					
name	Built-in antenna (WWXL6009956)	date	2024.04.11			
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	Pilot projects	request	experiment method	Actual test data	result	
					sample	Assessm ent result
High temperature test	Temperature (°C)	+85±3	9 according to GB2423.1-89 Method	+87 1.2 2.3 1	1	qualified
	Test sample temperature stabilization time (H)				2	qualified
	Test duration (h)	3			qualified	
	Recovery time (h)	4			qualified	
		5			qualified	
Low temperature test	Temperature (°C)	-45±3	8th in accordance with GB2423.1-89 Method	-46 1.2 2.4 1.1	1	qualified
	Test sample temperature stabilization time (h)				2	qualified
	Test duration (h)	3			qualified	
	Recovery time (h)	4			qualified	
		5			qualified	
Constant Damp Heat Test	Tempera ture (°C)	+40±2	According to GB2423.3-93	+42 92	1	qualified
	Relativ	90-95			2	qualified
					3	qualified

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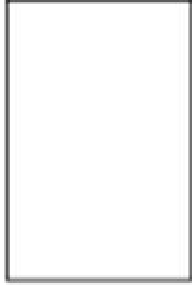
	e	21	Section 5	22	4	qualified
	humidity (%) Test duration (h) Recovery time (h)	1	Method	1.1	5	qualified

b. Salt spray test

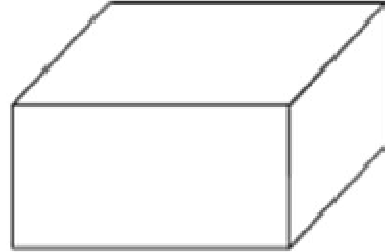
Salt fog test report				
Test item	Salt spray test			
Name	Built-in antenna (WWXL6009956)	date of observation	2024.04.11	
Device name	Salt spray corrosion test box	Test quantity	5 PCS	
Test method	The test samples were put into the modulated salt solution test chamber and salt spray corrosion chamber 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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7. Packing instructions



100PCS/Pouch



30Pouch/1Caron

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