赣州市江元电子有限公司

GANZHOU JOYAR ELECTRONICS CO.,LTD

SPECIFICATION FOR APPROVAL

PROVIDER ： All things connected Communications Xiangyang Limited

PART NO ： WWXL6008902

PART NO ： 133501005028

DESCRIPTION ： 2.4-5.85GHZ/L=125mm

DESCRIPTION ： Network antenna

DATE ： 2023-03-24

Please return to us one copy of “SPECIFICATION FOR APPROVAL”

With your approved signatures

APPROVED SIGNATURES			
CUSTOMER		PROVIDER	
Ganzhou Jiangyuan Electronics Co. , Ltd.		Shenzhen all things connected Communication Co.,Ltd.	
CHOP&SIGNATURES		CHOP&SIGNATURES	Tong Xiaoyan
DATE		DATE	2023.03.24

Ganzhou Jiangyuan Electronics Co. , Ltd
69 Golden Avenue, North District, Ganzhou Ganzhou Economic and Technological Development Zones
Tel：86-755-26737355 26737352

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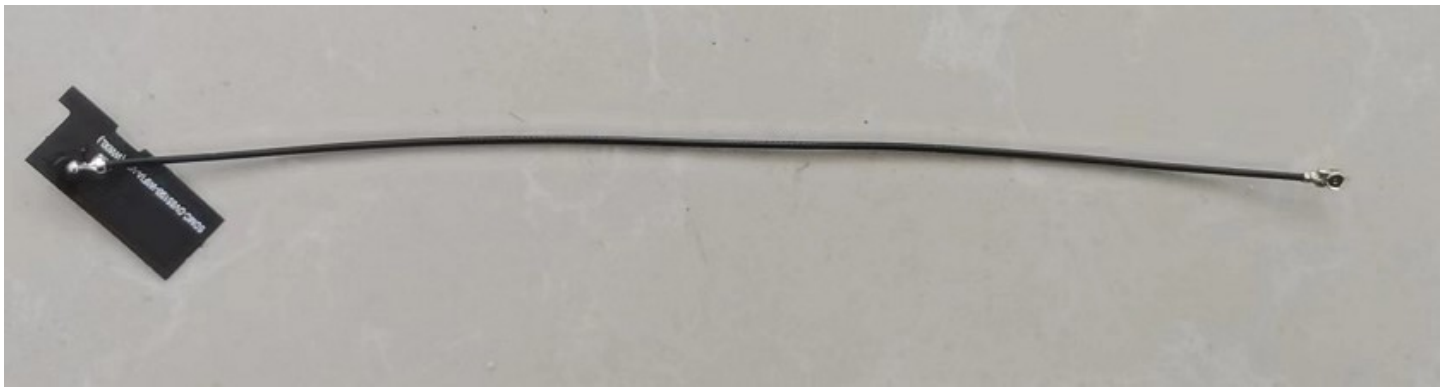
Add: Hubei Xiangyang Gucheng County 1-3 Shuang Yang Road Taoyuan Street, All things connected industrial park,

Cell phone: 136 6268 URL: www.wwxltx.cn

Specification for Antenna

1、Product pictures



2、Test parameters

Name Built-in antenna （WWXL6008902）		ModelType	
ELECTRICAL SPECTFICATIONS		MECHANICAL SPECTFICATIONS	
FrenquencyRange 2400-2500/5150-5850MHz Bluetooth /WIFI frequency is supported		Dimensions	27.5*12*0.2
Impedance	50Ω	Connector	IPEX
VSWR	≤3.5	linelength	1.13 Black 125±3mm
Gain	2.89/4.53dBi	WorkingTemperature	-45℃ – +85℃
Polarization	linear Vertical	Limit Temperature	-45℃ – +85℃
Radiation	Omnidirectional		

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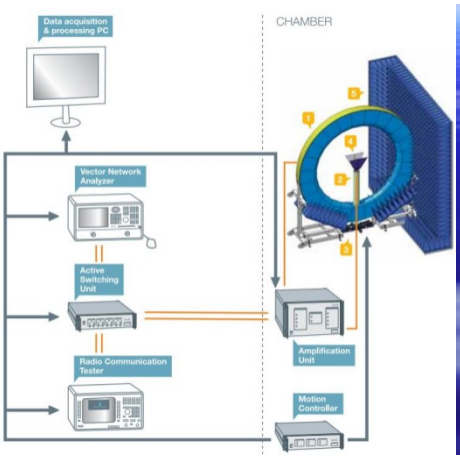
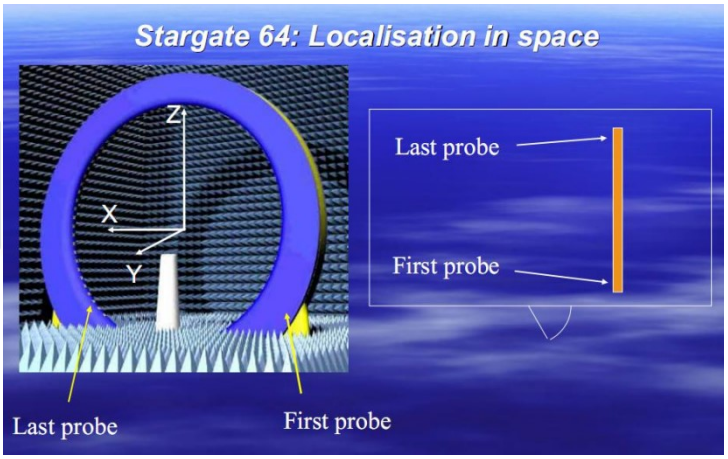
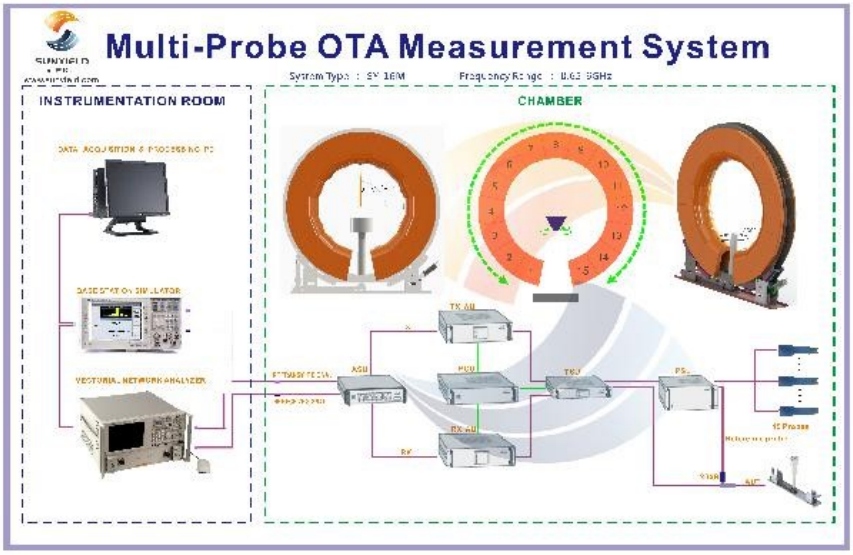
3、Antenna test environment





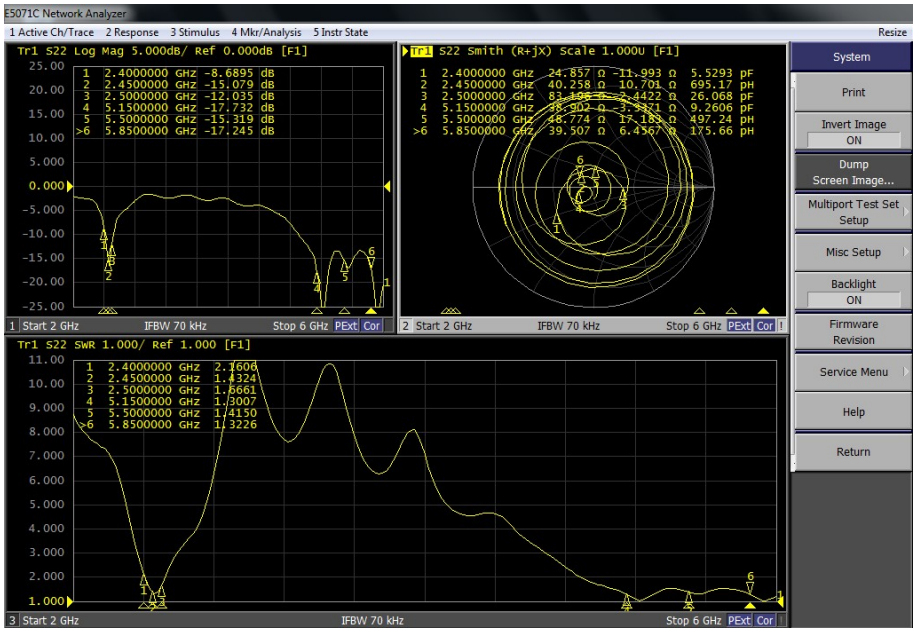


test macro：	SY-16M Antenna measurement system
testing environment：	temperature 22℃±3℃，humidity 50%±15%
testing equipment：	Agilent 5071C Agilent 8960 Comprehensive measuring instrument Agilent CMW500 4G Comprehensive measuring instrument

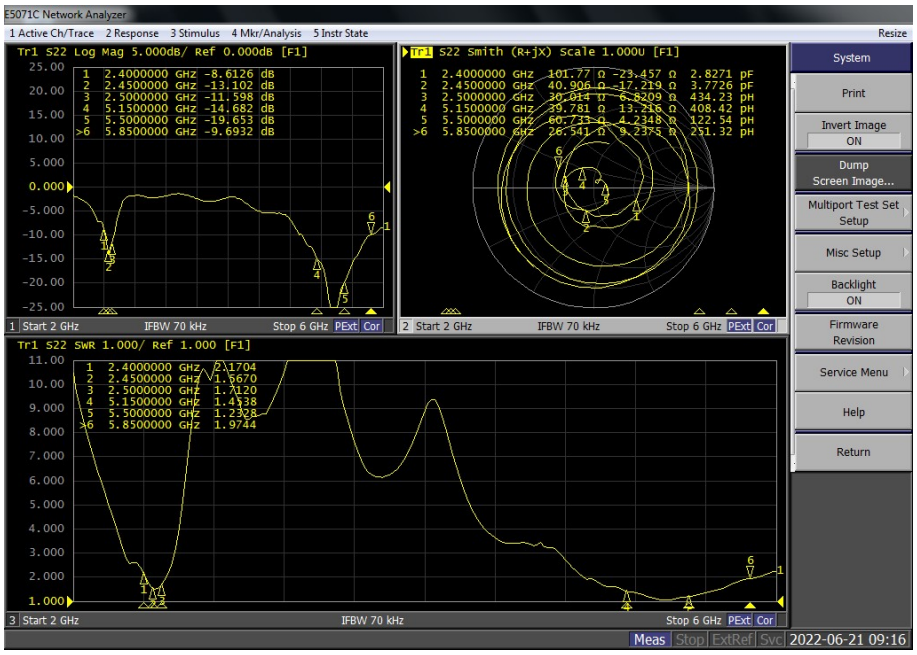
4、Antenna Passive Parameters：

1. VSWR:

WIFI



蓝牙



5、Product characteristics

1. Choose high-quality RF cable with small attenuation;
2. Stable performance;
3. Stable performance。

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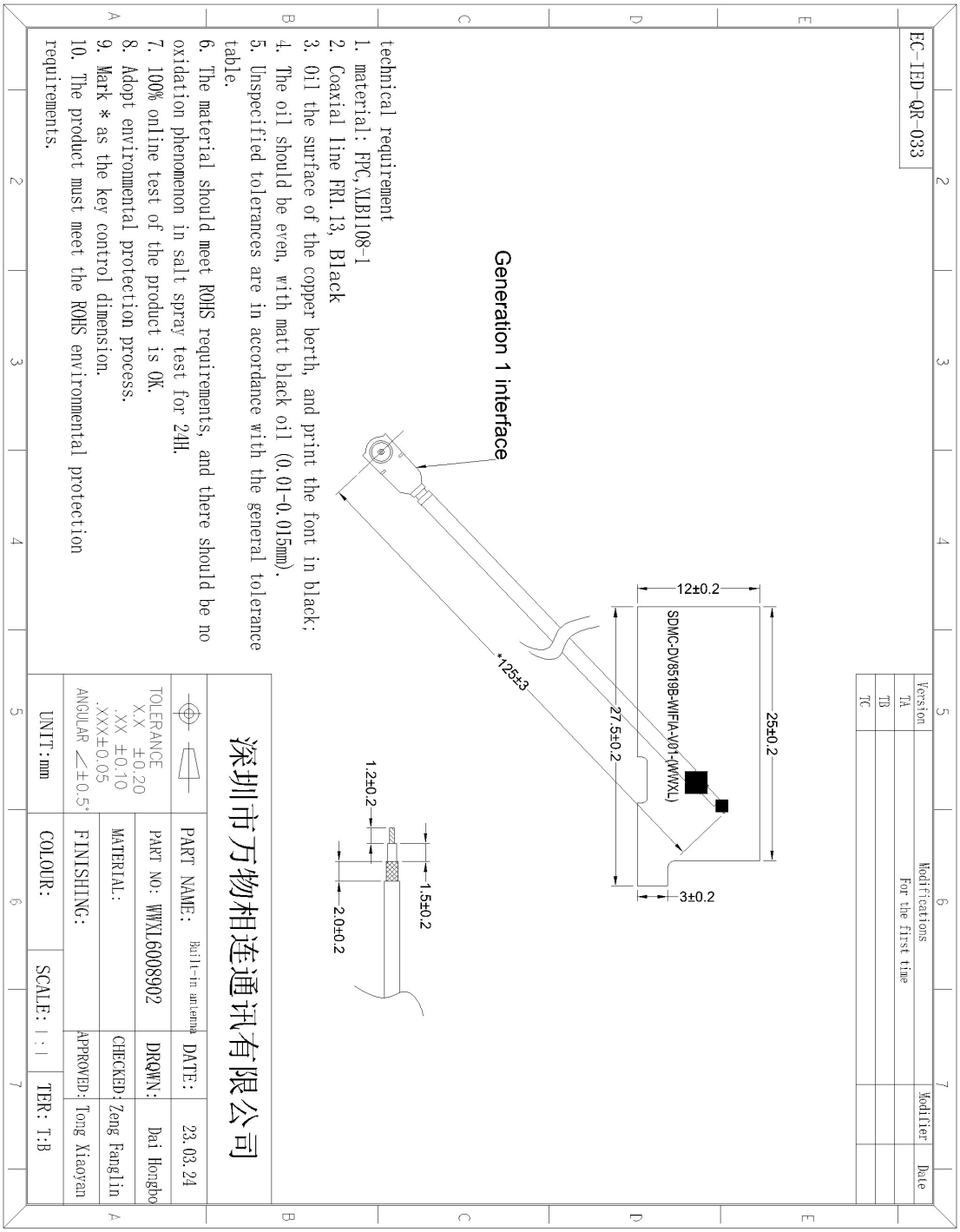
6、 Drawing



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7、Reliability testing 环境可靠性试验报告

1 Environmental experiment环境试验

High and low temperature and humidity test report						
test project	High temperature, low temperature and constant humidity test					
name	Built-in antenna (WWXL6008902)		date	2023.03.24		
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	Assessment result
High temperature test	Temperature (℃) 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 (℃) Test sample temperature stabilization time (h) Test duration (h) Recovery time	-45±3 1 2 1	8th in accordance with GB2423.1-89	-46 1.2 2.4 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified

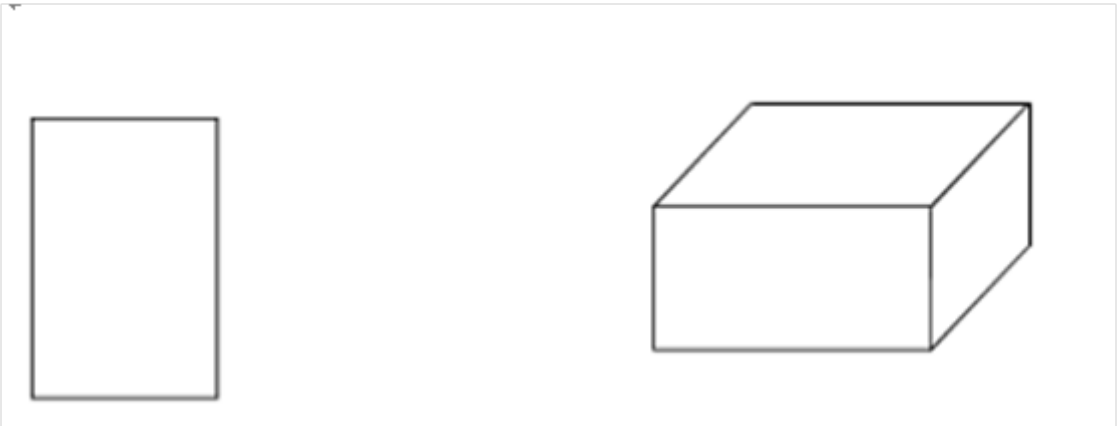
	(h)		Method			
Constant Damp Heat Test	Temperature (℃) Relative humidity (%) Test duration (h) Recovery time (h)	+40±2 90-95 21 1	According to GB2423.3-93 Section 5 Method	+42 92 22 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified

2. Salt spray test

Salt fog test report			
Test item	Salt spray test		
Name	Built-in antenna (WWXL6008902)	date of observation	2023.03.24
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	

8、Packing instructions：



100PCS/Pouch 30Pouch/1Caron

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