

天线规格书

Antenna specification

制造商名称: Manufacturer:	万物相连通讯襄阳有限公司 All things connected Communications Xiangyang Limited
供应商名称 Supplier::	万物相连通讯襄阳有限公司 All things connected Communications Xiangyang Limited
产品名称: Part Description:	PCB Antenna
规格型号: Model No:	WWXL6008631
物料编码: Cust P/N:	360100296
日期: Issued Date:	2022.03.24

一、Product pictures产品图片



二、Test parameters产品测试参数

产品名称 Name	内置天线 (WWXL6008631)	型号 ModelType	WWXL-U 2400/5850-1233
电气参数 ELECTRICAL SPECTIFICATIONS	机械参数 MECHANICAL SPECTIFICATIONS		
频率范围 FrenquencyRange	2400-2500/5150-5850MHz	尺寸 Dimensions	38*9.7*0.4mm
输入阻抗 Impedance	50 Ω	连接器型号 Connector	IPEX
驻波比 VSWR	≤2.5	线长 line length	100+1.5mm 1.13 Low loss line black 低损耗线黑色
增益 Gain	≤2 dBi	效率 Efficiency	≥50%
极化方式 Polarization	linear Vertical 线极化	工作温度 Working Temperature	-45°C ~ +85°C
辐射方向 Radiation	Omnidirectional 全向	存放温度 Limit Temperature	-45°C ~ +85°C

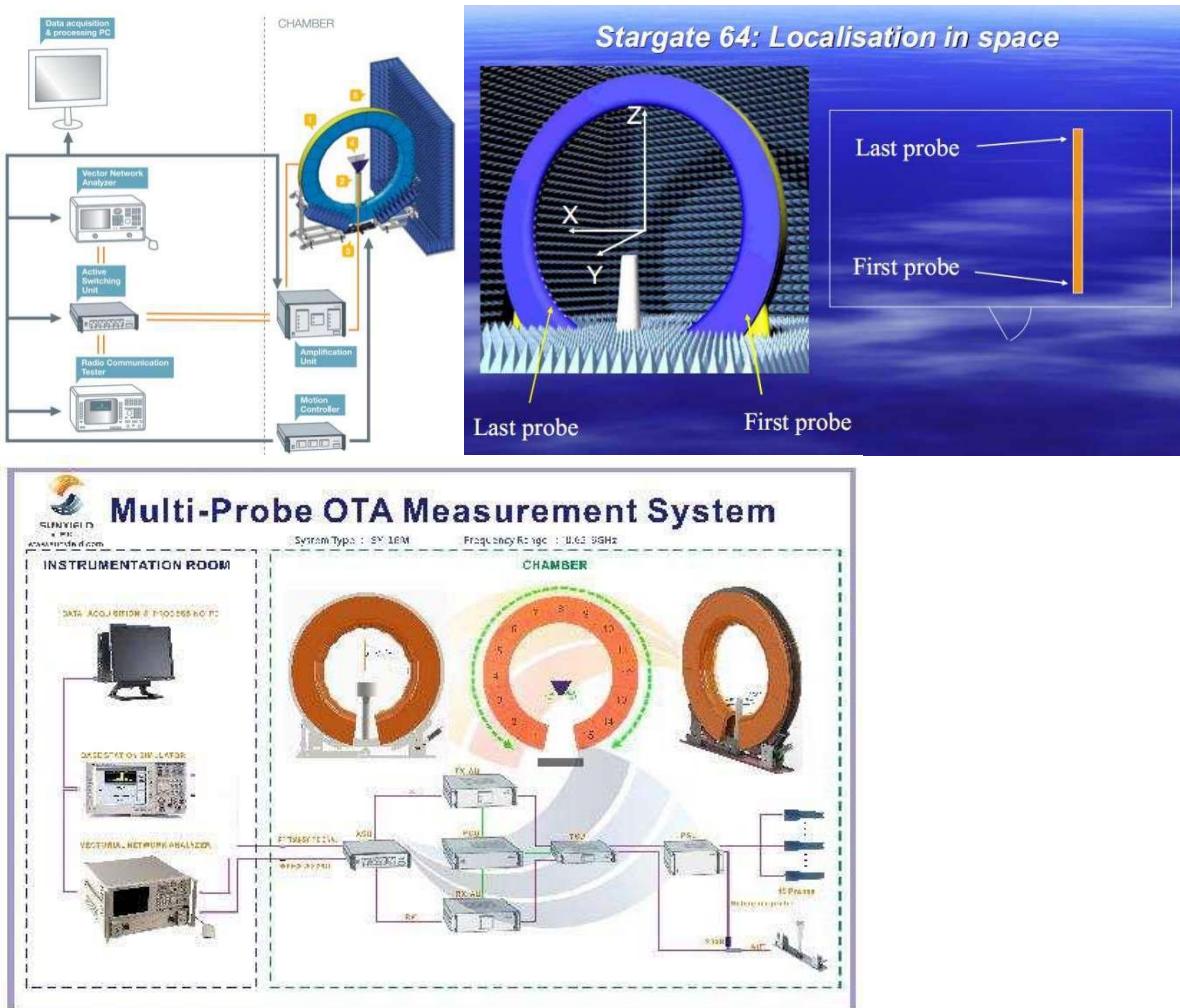
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三、Antenna test environment 天线测试环境

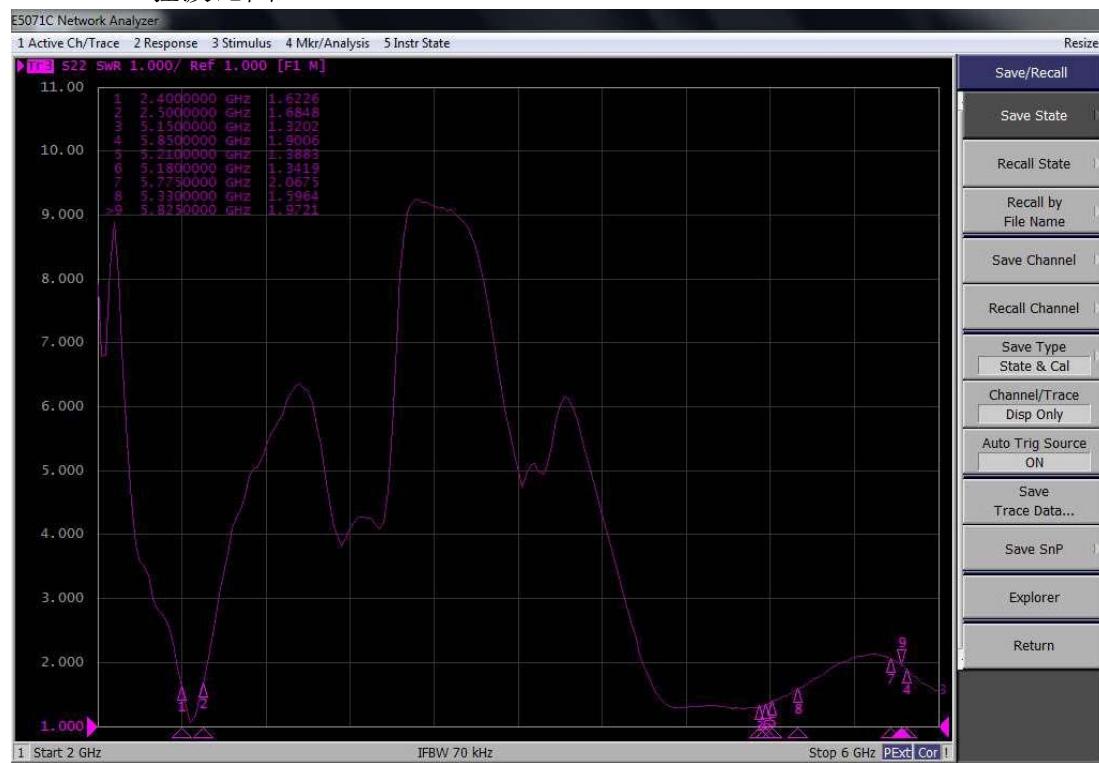


test macro 测试系统:	SY-16M Antenna measurement system 天线测量系统
testing environment 测试环境:	temperature 温度 $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity 湿度 $50\% \pm 15\%$
testing equipment 测试设备:	Agilent 5071C Agilent 8960 Comprehensive measuring instrument 综测仪 Agilent CMW500 4G Comprehensive measuring instrument 综测仪

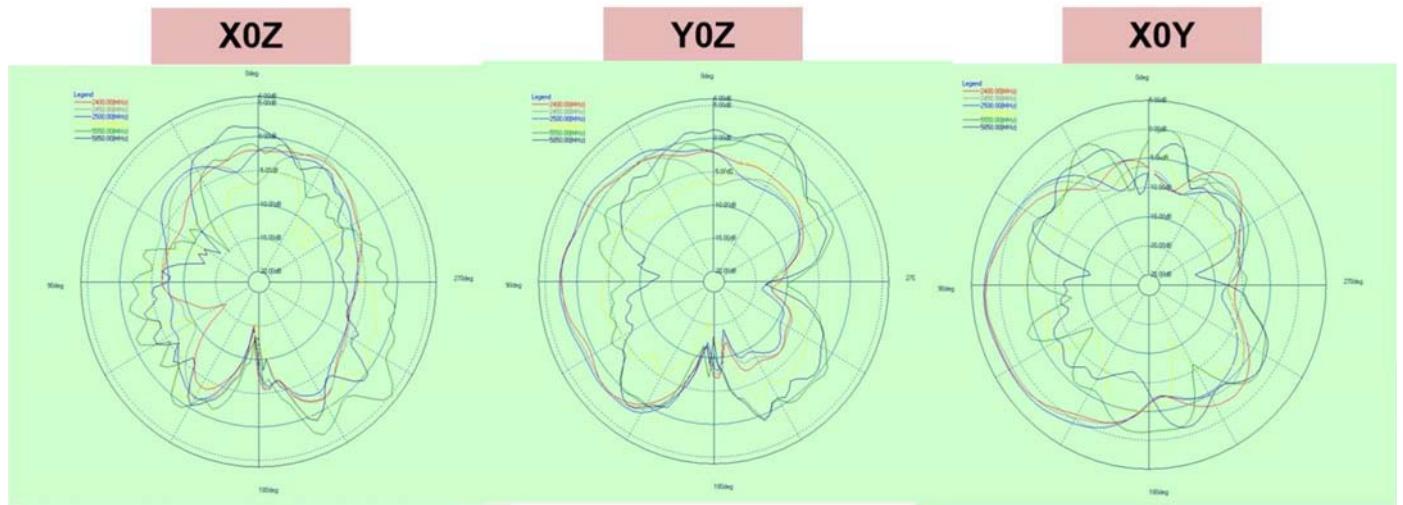
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四、Antenna Passive Parameters 天线无源参数:

1、VSWR驻波比图:



2、2D directional diagram 2D方向图: Unit: dBi



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五、Product characteristics 产品特点

1. Choose high-quality RF cable with small attenuation 选用优质射频电缆，自身衰减小；
2. Stable performance 性能稳定；
3. Stable performance 频带内驻波良好。

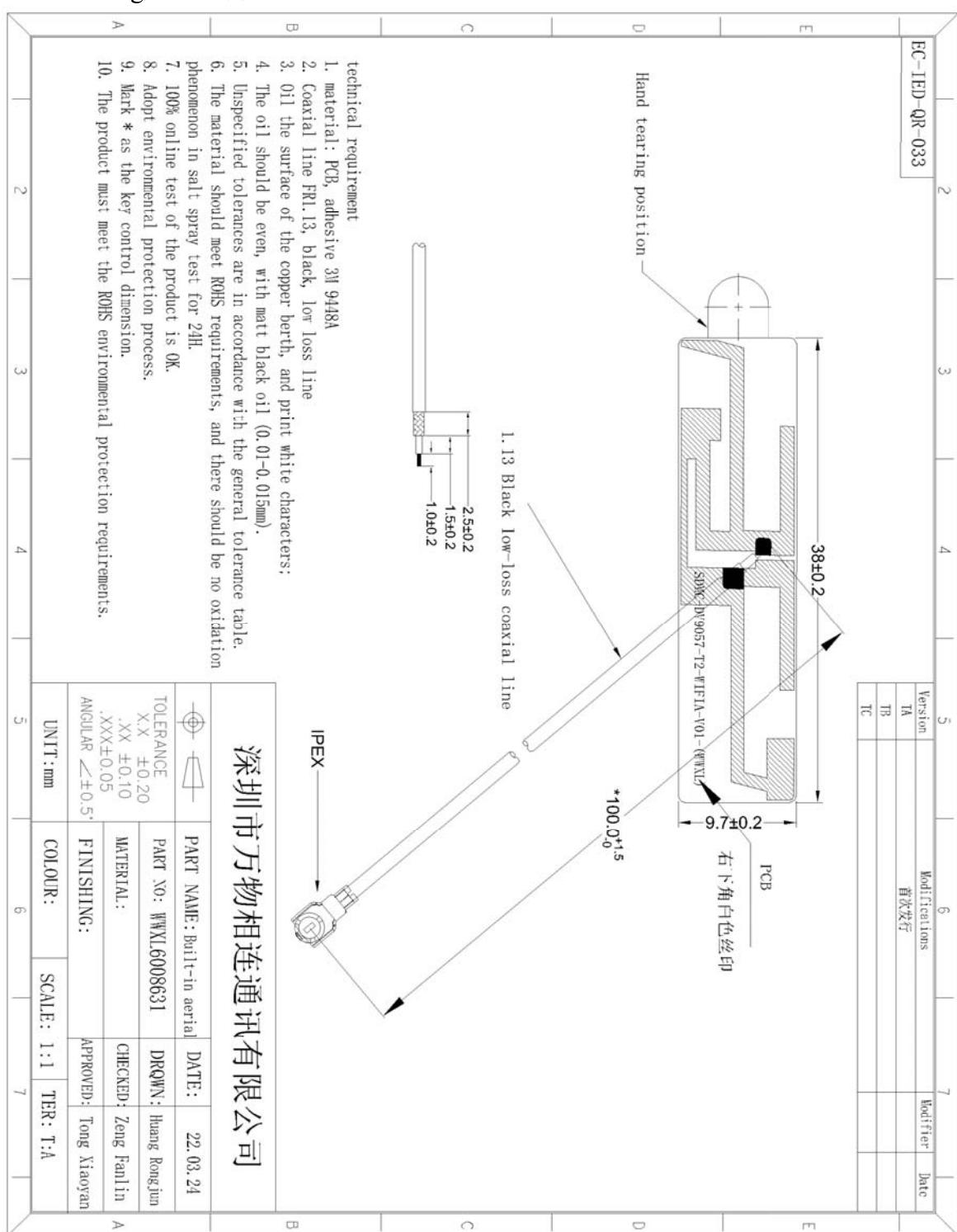
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六、Drawing 产品结构图



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七、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 (WWXL6008631)			date	2022.03.24	
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	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	Temperature (°C) Relative	+40±2 90-95 21	According to GB2423. 3-93 Section 5	+42 92 22	1	qualified
					2	qualified
					3	qualified

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	e humidit y (%) Test duration (h) Recovery time (h)	1	Method	1.1	4	qualified
					5	qualified

b. Salt spray test

Salt fog test report						
Test item	Salt spray test					
Name	Built-in antenna (WWXL6008631)		date of observation	2022.03.24		
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						
N0	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			

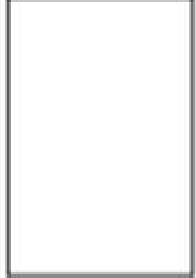
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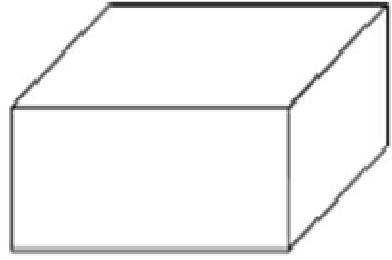
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八、 Packing instructions 包装说明:



100PCS/Pouch



30Pouch/1Caron

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