

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称 CUSTOMER: _____

客 户 料 号 CUS PARTNO: _____

品 名 规 格 PARTNAME: _____ WIFI antenna

公 司 料 号 TPTPART NO: _____ WWXL6007235

版 本 VERSION: _____ 1.0

CUS STAMP:

DATE:

Purchasing Dept	Engineering Dept	Approval

WWXL:

Date: May 24, 2023

Engineering Dept	Sales Dept	Approval
DaiHongbo		Tongxiaoyan



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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: Room 1101,Building 4,Fangdacheng,No2,longxhu 4 th Road, Nanshan District, Shenzhen City

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

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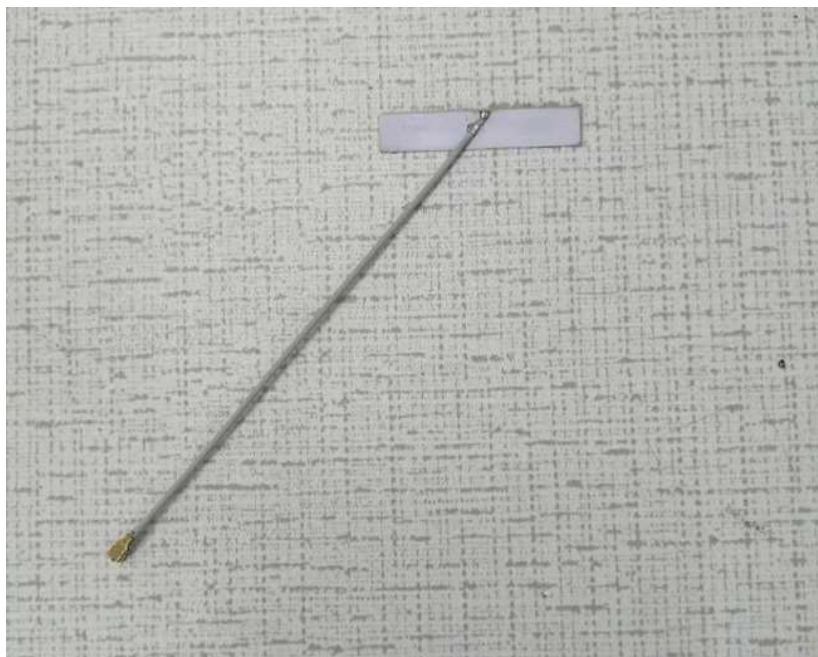
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天线规格书

一、Finished product drawing (for reference only)产品成品图（仅供参考）



二、Test parameters产品测试参数

产品名称NameWIFI天线（WWXL6007235）		型号 ModelType	
电气参数ELECTRICAL SPECTFICATIONS		机械参数 MECHANICAL SPECTFICATIONS	
频率范围 FrequencyRange 2400-2500MHZ		尺寸Dimensions	35.4*6.6*0.2mm white
输入阻抗 Impedance	50 Ω	连接器型号Connector	IPEX
驻波比 VSWR	≤ 3.0	同轴线缆Coaxial-cable	RG1.13 L=100mm light gray
极化方式Polarization	linear Vertical 线极化	工作温度WorkingTemperature	-45°C - +85°C
辐射方向 Radiation	Omnidirectional 全向	存放温度Limit Temperature	-45°C +85°C
增益 Gain	5.59dBi		

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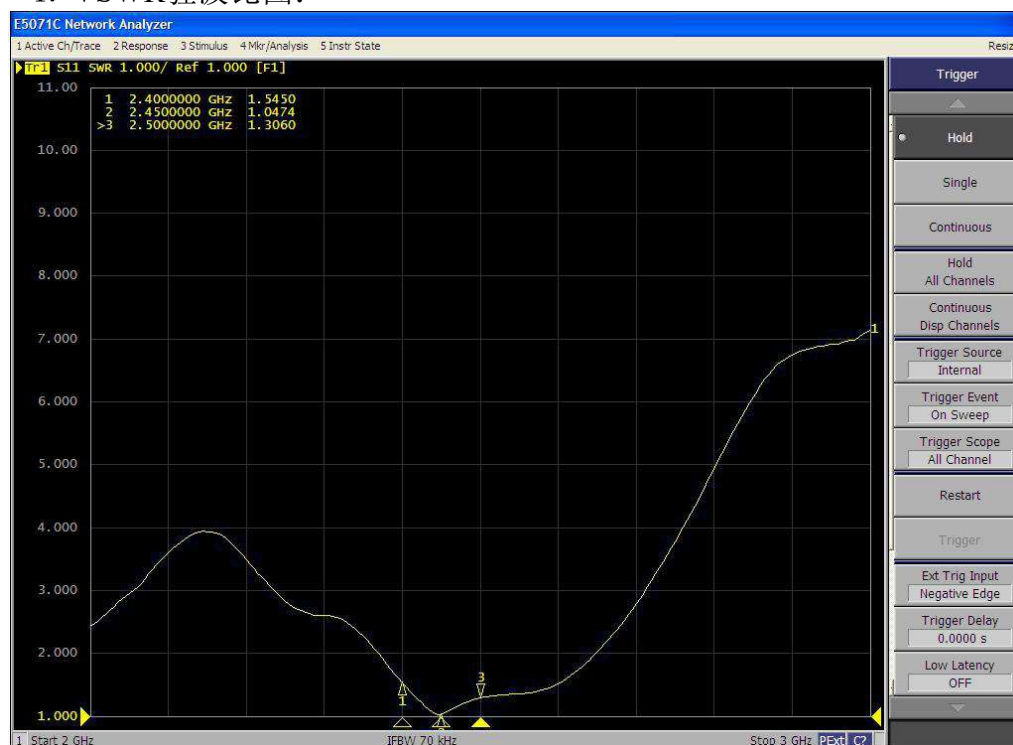
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三、Antenna Passive Parameters 天线无源参数:

1. VSWR驻波比图:



2、Gain and Efficiency 增益和效率:

Gain&Efficiency&PhaseCenter 增益、效率和相位中心								
frequency 频率 (MHz)	gain 增 益(dBi)	efficiency 效率(%)						
2400	4.1	33.13						
2410	4.53	36.53						
2420	4.73	38.21						
2430	4.87	39.53						
2440	5.05	40.95						
2450	5.19	42.52						
2460	5.4	44.39						
2470	5.44	45.06						
2480	5.57	46.18						
2490	5.59	46.27						
2500	5.39	44.38						

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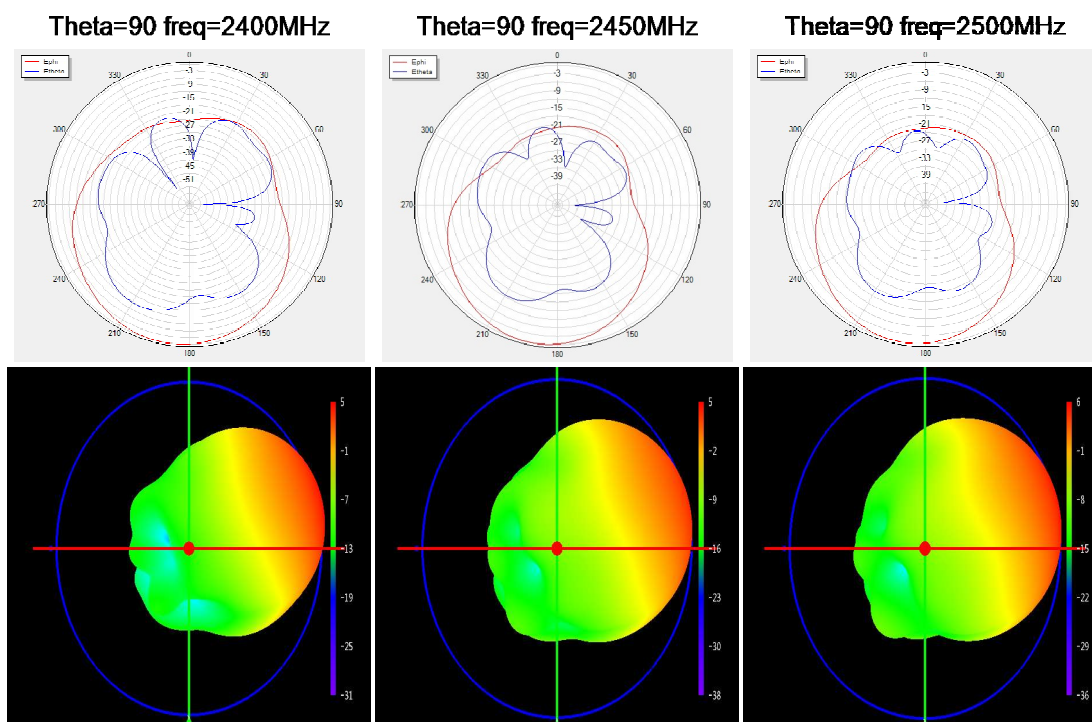
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3、2D/3D directional diagram 2D/3D方向图:



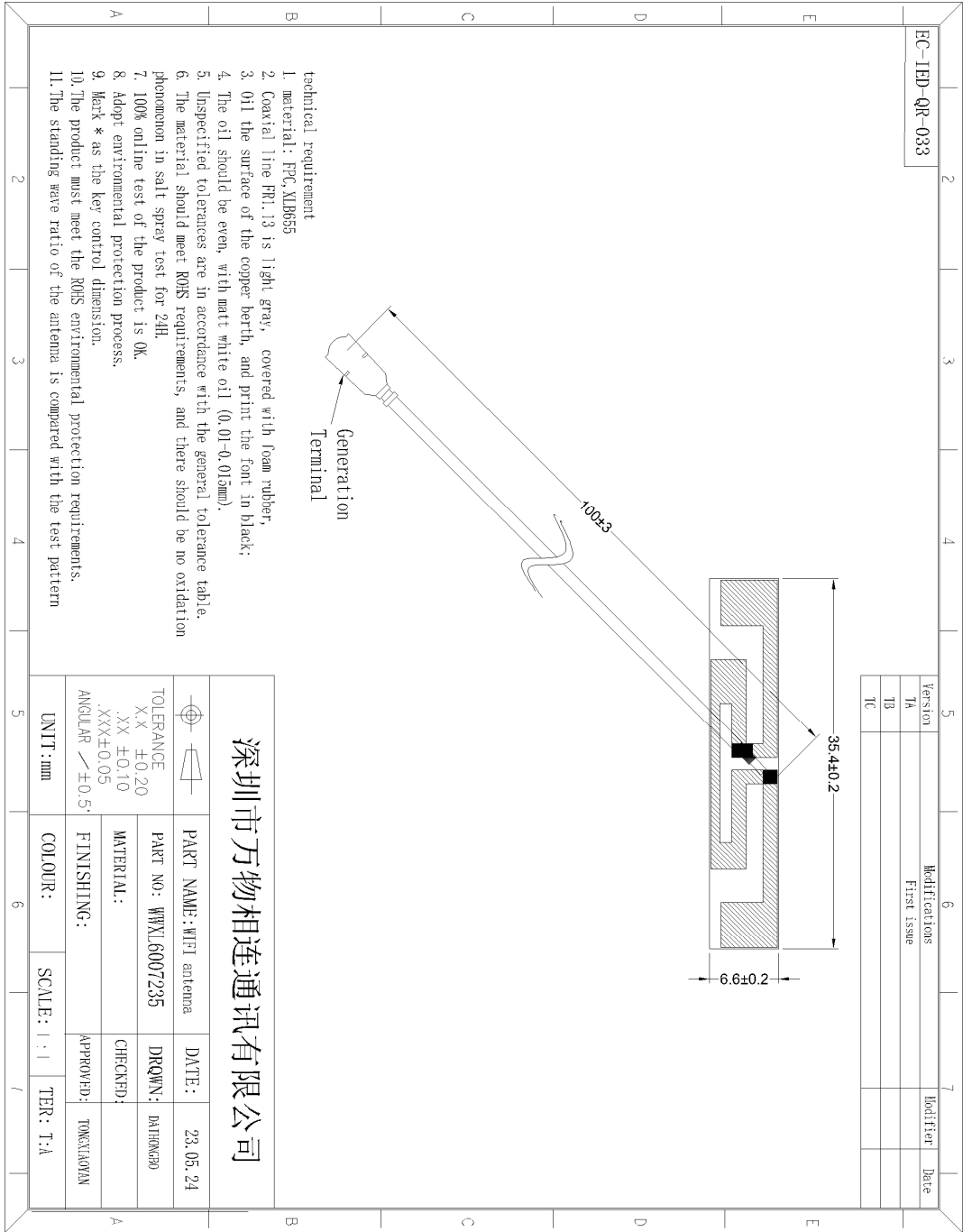
四、Product characteristics产品特点

1. Choose anti-aging materials, long service life 选用抗老化材料，使用寿命长；
2. The standing wave in frequency band is good 频带内驻波良好。

五、Drawing产品结构图

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六、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	WIFI antenna (WWXL6007235)			date	2023.05.24	
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		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	WIFI antenna (WWXL6007235)		date of observation	2023.05.24
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	

七. Cable description 线缆说明:

1. 适用范围:

Scope

本规格书制定了 RF113 50Ω FEP 绝缘射频电缆的结构和电气特性.

This specification covers the construction and the electrical properties of RF113 50Ω FEP Insulation Coaxial Cable

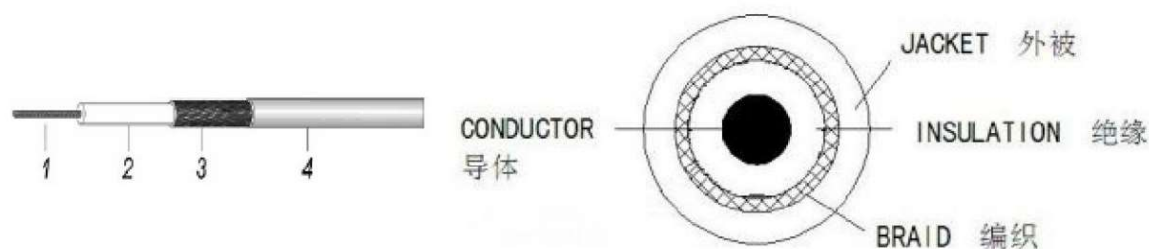
2. 结构/Construction:

单位/Unit:mm

项目/Item		详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver plated Copper
	构成(根/mm)/Composition (No./mm)	7/0.08±0.005
	标称直径/NOM. O. D	0.24±0.01
绝缘层/Insulation	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	0.7±0.03
	颜色/Color	Natural
编织层/Braid Shield	材料/Material	镀锡铜线 Tinned copper
	构成/Composition	16/4/0.05±0.005
	遮蔽率/Shielding rate	90%
	标称直径/NOM. O. D	0.92±0.03
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	1.13±0.05
	颜色/Color	/

3. 电气特性 (20℃时)/Electrical Properties (at 20℃)

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50±3.0	
耐压强度/Dielectric Strength	A.C V/lmin	1000	
最大工作频率/Max.oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm ²	1.76	
工作温度范围/Operating Temp.	℃	-55 to 200	
衰减/Attenuation	/	频率 /Frequency (MHz)	dB/1m
		1000	≤2.23
		2000	≤3.15
		3000	≤3.96
		4000	≤4.6
		5000	≤5.15
		6000	≤5.7
驻波比/Standing wave (0-6GHz)	/	≤1.4	



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