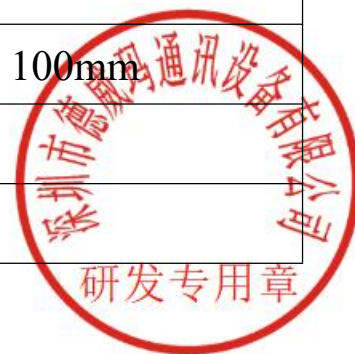


Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME (客户名称)	富兰瓦时
CUSTOMER P/N (客户料号)	22010005
PART NAME (品 名)	智能配电箱 WIFI 天线 100mm
DWM P/N (料 号)	
APPROVAL REV. 版次	DWM-V1.0



CONTRACTOR			DATE: 2023-11-07
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
高春彦	段燕林	吴周恒	余奇学

CUSTOMER		DATE:
Approved By	Checked By	Prepared By

	Product Specification		
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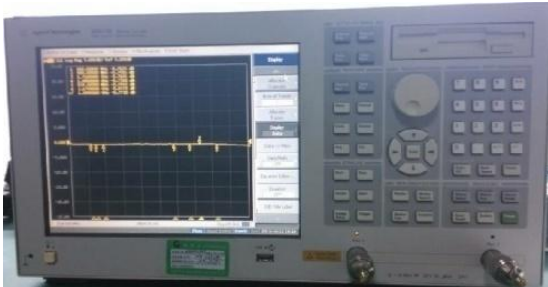
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1. Product Application/产品应用

该天线产品用于智能配电箱 WIFI 天线信号的传输。

2. The test environment, equipment/测试环境、设备

Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.1	Passive testing /无源测试	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices. (VSWR 测量装置依次连接: 网络分析仪测量电缆 agilent5071B→→客户提供终端。)	驻波比: 2400-2500MHz<2.0 5150 - 5850MHz<2.0 阻抗: 50 ohm
		Test equipment/测试设备	
			
Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.2	增益及 效率测试	Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances. (以下图片显示的天线的测量条件被放在测量装置,它是用于所有的测量电性能。)	天线增益: 2400-2500MHz:3.5±1dBi 5150 -5850MHz:3.5±1.5dBi 天线效率: 2400 ~ 2500MHz>60 % 5150 ~5850MHz>45 %



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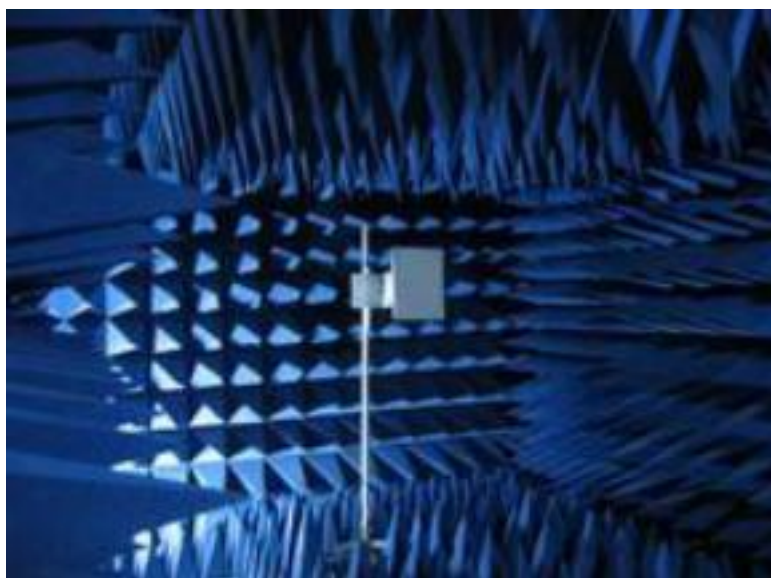
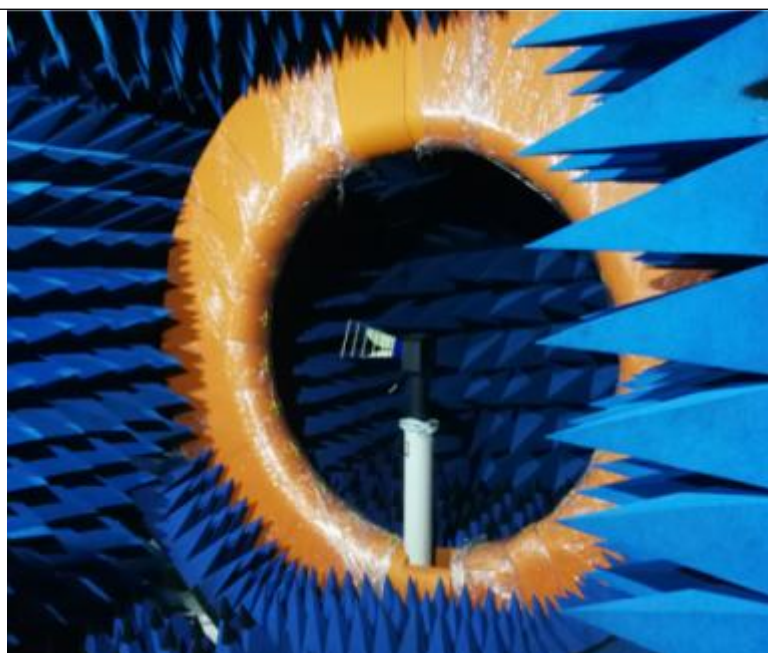
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Test equipment/测试设备

2.3

Microwave
Anechoic
(Satimo&ETS
)
/微波暗室





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CMW500

Agilent5071B

2.4

AgilentE4405B

Agilent8960





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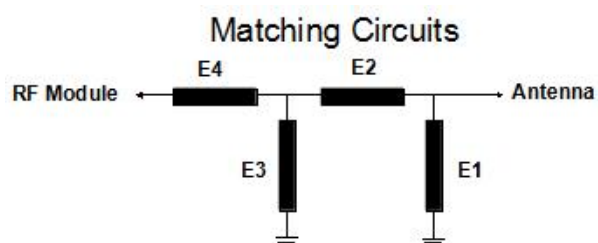
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3. Technology Parameters/技术参数

Frequency Range/频率范围: 2400-2500MHz&5150~5850MHz
Operating Humidity/工作湿度: 85% R.H.MAX
Temperature Rating/温度范围: -40℃~+85℃

3.1 The matching test value/调试匹配值

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	





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3.2 VSWR/驻波比:



3.3. Efficiency And Gain/效率和增益

Frequency	Efficiency	Efficiency /	Frequency	Gain/ dBi
2400	-1.93	64.12	2400	4.11
2410	-2.06	62.23	2410	3.64
2420	-1.7	67.61	2420	4.11
2430	-1.68	67.92	2430	4.13
2440	-1.91	64.42	2440	3.51
2450	-1.83	65.61	2450	3.71
2460	-1.75	66.83	2460	3.92
2470	-1.94	63.97	2470	3.56
2480	-1.86	65.16	2480	3.69
2490	-1.66	68.23	2490	4.06
2500	-1.82	65.77	2500	3.48
5150	-2.75	53.09	5150	2.6
5200	-2.47	56.62	5200	3.09
5250	-2.59	55.08	5250	2.94
5300	-2.57	55.34	5300	2.84
5350	-2.62	54.7	5350	2.92
5400	-2.78	52.72	5400	2.91
5450	-3.12	48.75	5450	2.72
5500	-2.57	55.34	5500	3.72
5550	-2.9	51.29	5550	3.71
5600	-3.21	47.75	5600	3.76
5650	-3.17	48.19	5650	3.99
5700	-3.55	44.16	5700	3.87
5750	-3.37	46.03	5750	4.23
5800	-3.44	45.29	5800	4.39
5850	-3.66	43.05	5850	4.15



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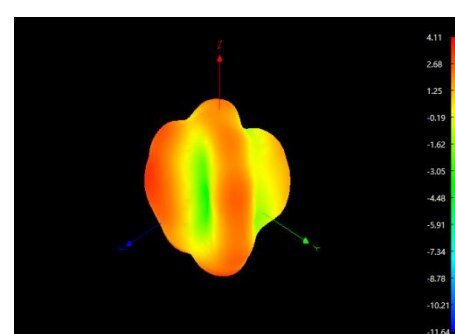
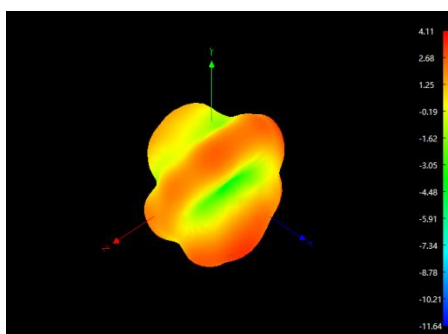
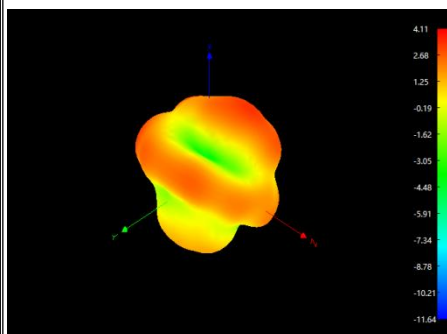
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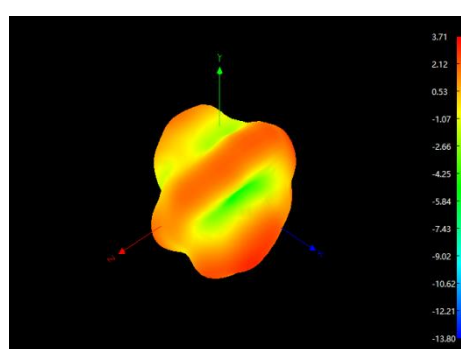
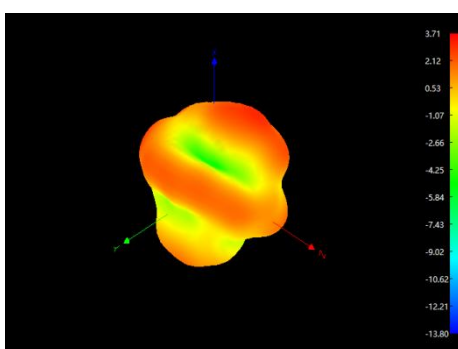
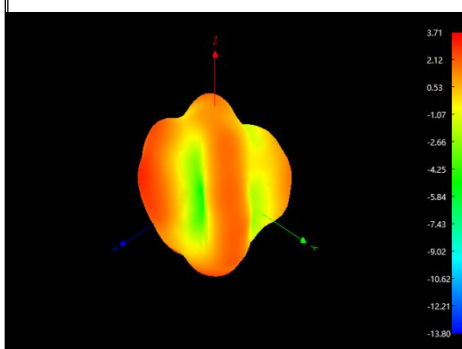
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3.4 3D Pattern

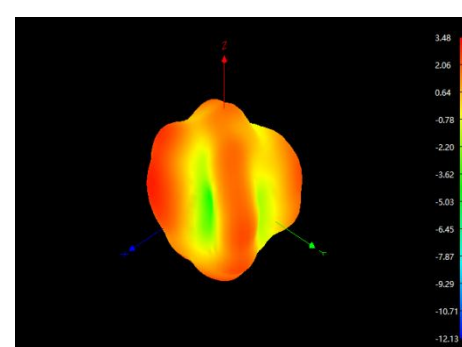
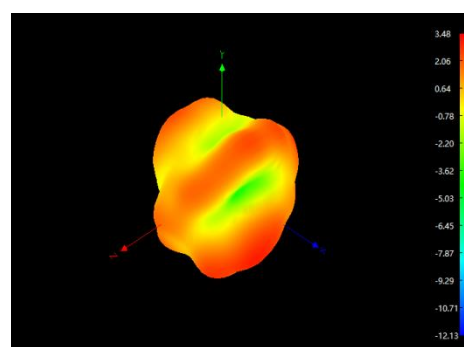
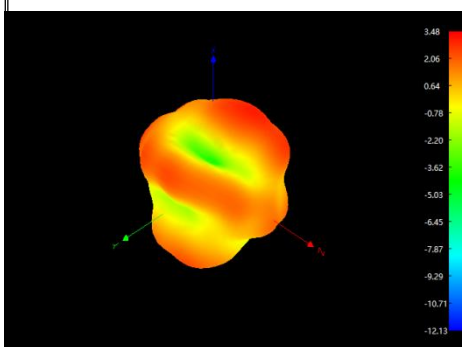
2400MHz 3D Pattern/方向图:



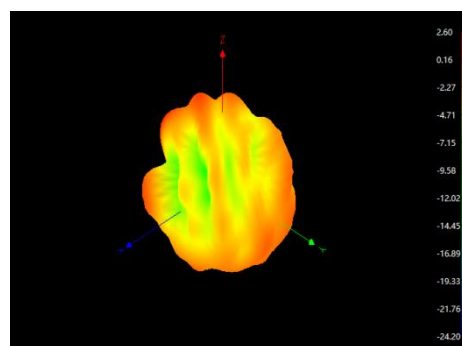
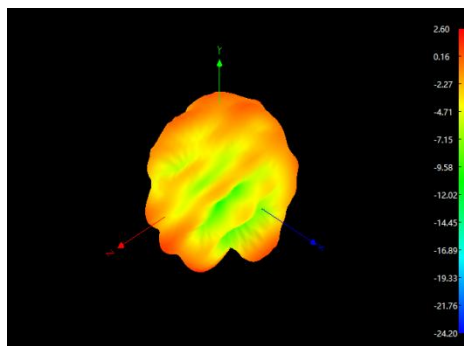
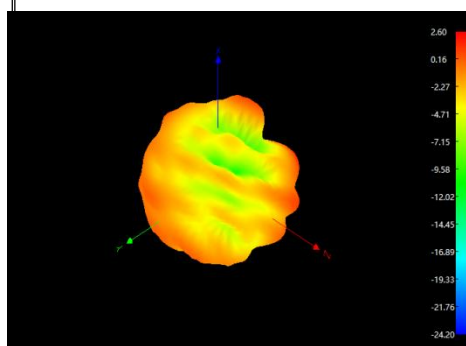
2450MHz 3D Pattern/方向图:



2500MHz 3D Pattern/方向图:



5150MHz 3D Pattern/方向图:





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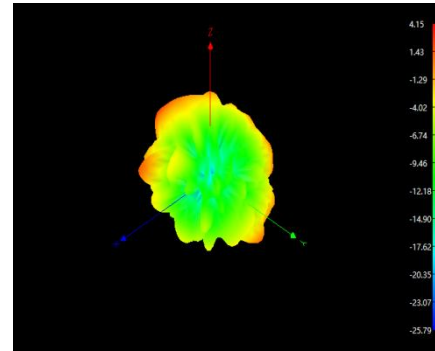
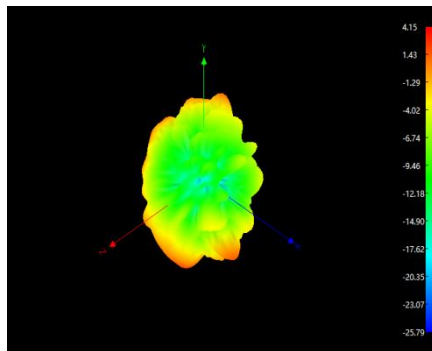
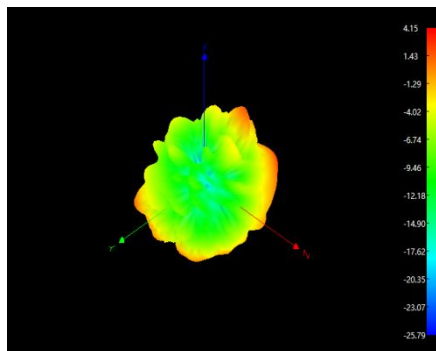
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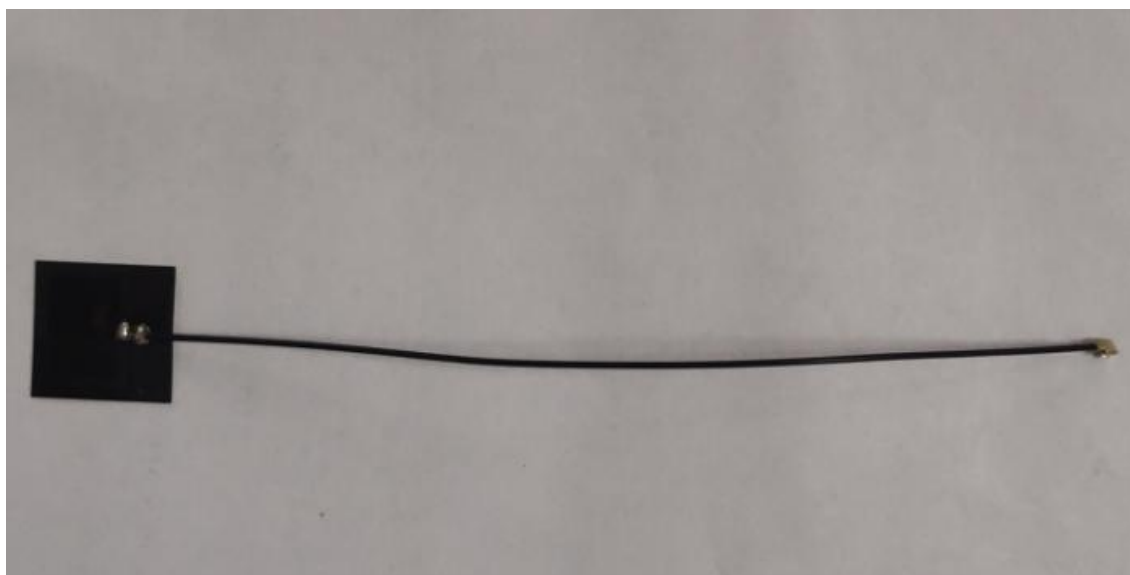
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5850MHz 3D Pattern/方向图:



4. Product photo/产品实物图片:





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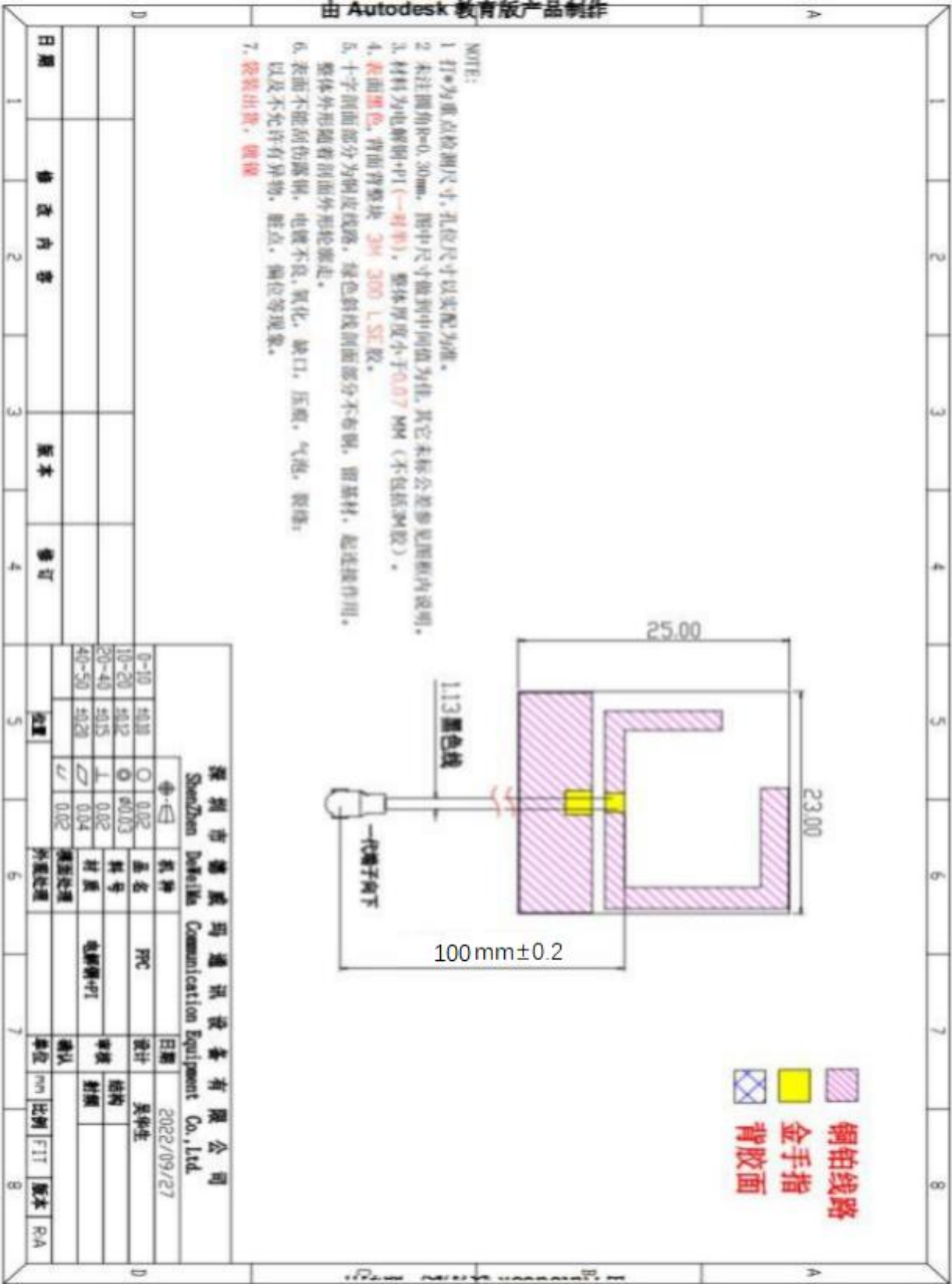
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5.Product structure diagram/产品结构图:



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6.Environmental Performance/环境性能

Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求
5.1	High and low temperature test 高低温测试	Temp.: -40 °C Time: 48 hours Temp.: 85°C Time: 48 hours	1. No visible damage. (无可见损伤) 2. The electric performances reach the standard. (电气性能达标)
Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求
5.2	Salt Spray 盐雾测试	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1 °C Time:24 hours	1. No color change. (无颜色变化) 2. the appearance of the antenna does not flake off. (天线无外观脱落)

7.Usage Precaution/使用禁忌或注意事项

No	Items 项目	Matter 事项
6.1	Precautions 禁忌	a)Please avoid the cleaning of this product a)请避免清洁此产品
No	Items 项目	Matter 事项
6.2	Stockpile condition 存储条件	Use this product within 6 months after receipt Condition : Temp: 5~30°C Humidity:≤70% 有效期: 请在产品接收后的 6 个月内使用 存储环境: 温度:5~30°C; 湿度:≤70%



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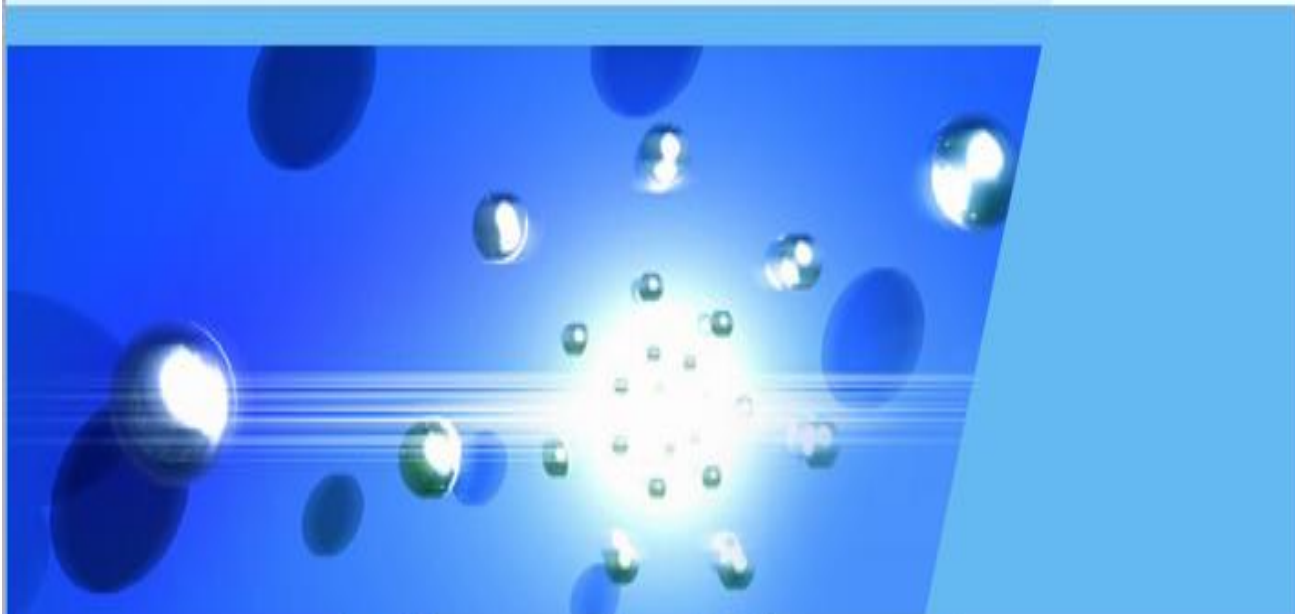
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专业的**RF**研发机构



Thank You !

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