



深圳市英佳创电子科技有限公司

Shenzhen Yingjichuang Electronic Technology Co., Ltd.

<http://www.szsyjc.com>

APPROVAL SHEET

承认书

CUSTOMER NAME 客户名称	恒晟威	
CUSTOMER P/N 客户料号		
PART NAME 品 名	2. 4G/5G 黑色 PCB 内置天线 L=255MM (机型 25E1)	
P/ N 料 号	YJC-6N255-B05	
APPROVAL REV. 版 次	A0	
DELIVERY DATE 送样日期	2025 年 06 月 23 日	
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APPROVED BY 核 准	肖 汉	
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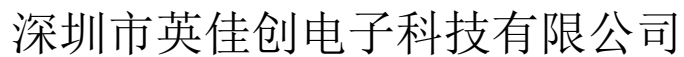
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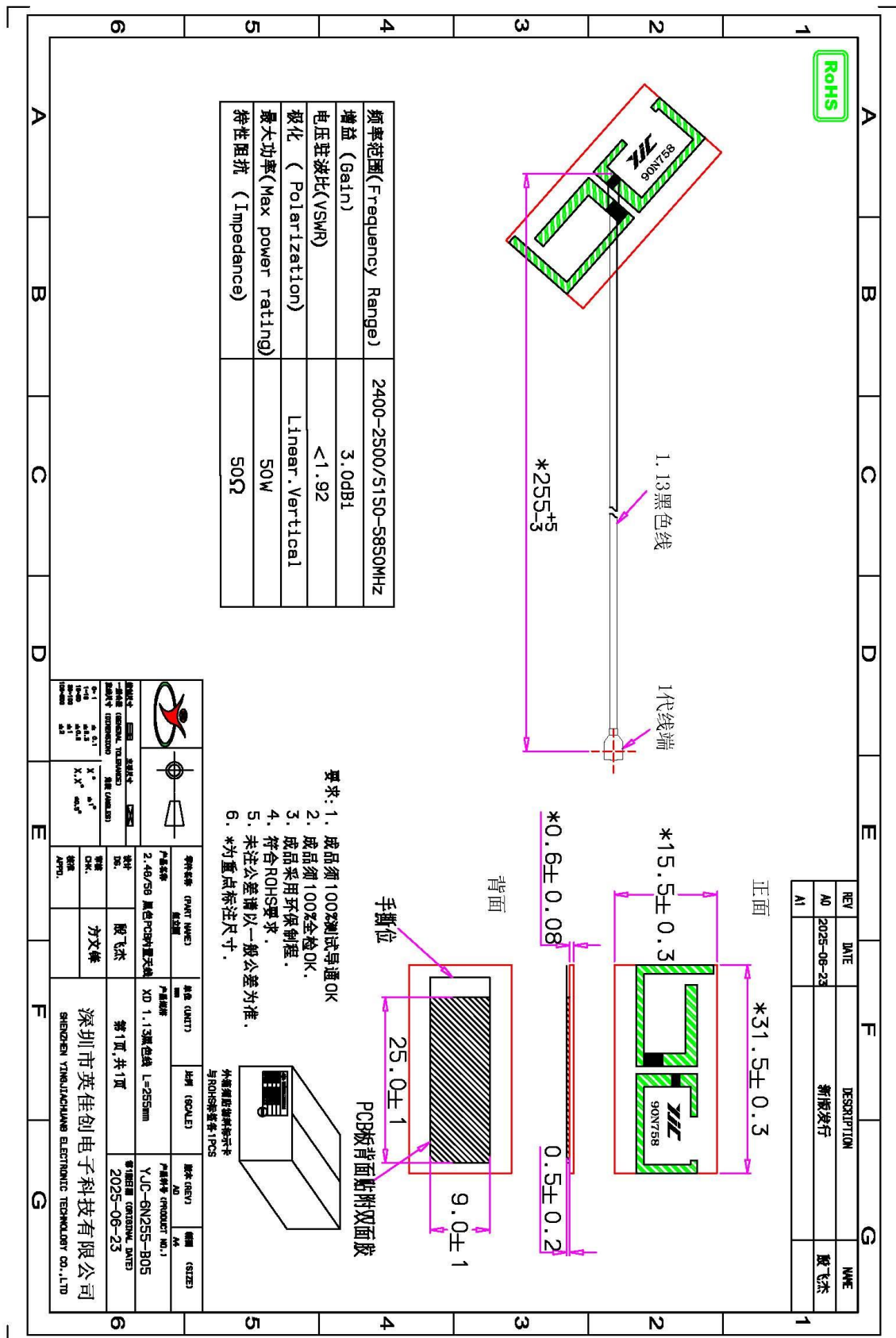


履历表：

版本	变更内容及更改原因	日期	发行
A/0	初版发行	2025 年 06 月 23 日	



天线平面图:





天线技术参数及环境测试:

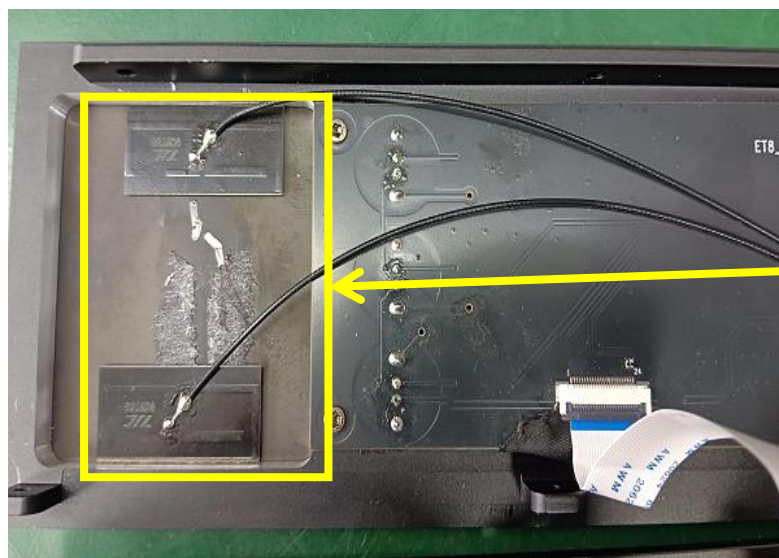
电气技术参数			
电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	3.0dBi	Gain	3.0dBi
机 械 指 标		Mechanical Specifications	
线材颜色	1.13 黑色双锡线	Wire color	1.13 Black double tin wire
接口形式	XD	Input connector	XD
线材长度	255mm	Wire length	255mm
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%

环境性能测试:

项目	测试条件	规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下: 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与-20℃之间进行5次循环,然后在正常条件下1-2H, 检查外观质量。	尺寸应满足规定并应满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%, 试验温度: 40℃. 持续2H作用后, 试品取出后5min之内测定电气性能, 试品在正常条件下1-2H, 检查外观质量	尺寸应满足规定并应满足于机械、电气性能
振动试验	振频范围10-55HZ, 位移幅值: 0.35MM, 加速度幅值: 50.0M/S, 扫频循环次数: 30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常



天线实物图:



天线贴附位置

天线性能测试图:

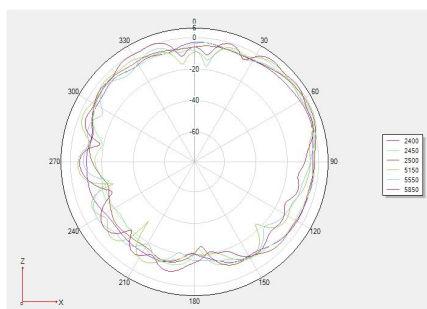




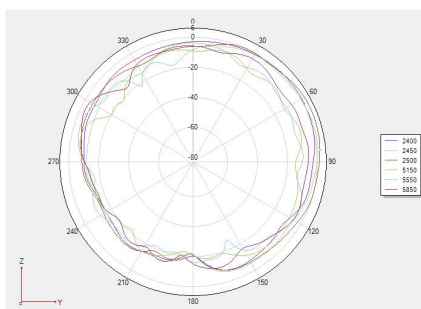
2D、3D 测试数据(2.4G/5G):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	44.45	1.62
2410MHz	45.3	1.65
2420MHz	47.77	1.74
2430MHz	47.7	1.89
2440MHz	47.99	2.02
2450MHz	48.05	2.31
2460MHz	47.06	2.09
2470MHz	48.07	2.76
2480MHz	52.17	2.99
2490MHz	50.93	2.5
2500MHz	53.75	3.05
5150MHz	48.5	2.24
5250MHz	50.32	2.28
5350MHz	51.04	2.77
5450MHz	54.42	3.12
5550MHz	52.62	2.82
5650MHz	52.5	2.33
5750MHz	51.58	2.8
5850MHz	49.75	2.58

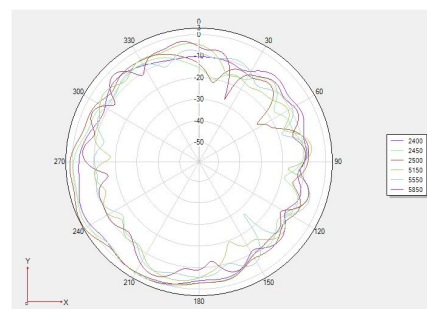
Phi 0 2D 图:



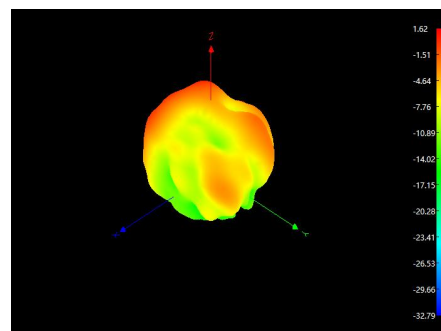
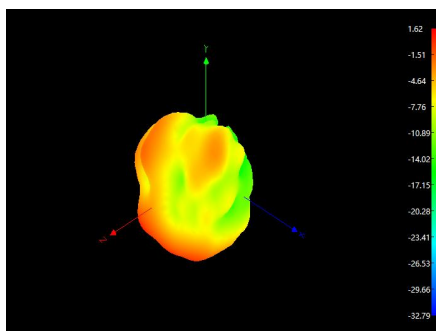
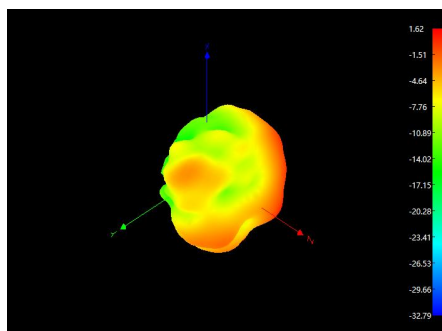
Phi 90 2D 图



Theta 90 2D 图

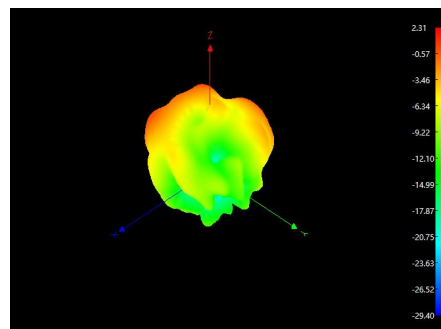
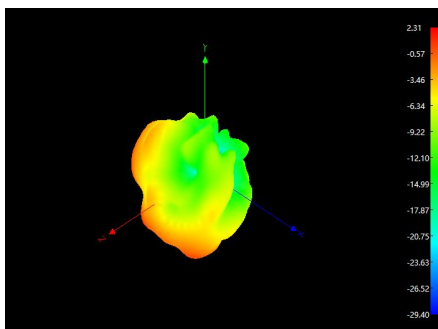
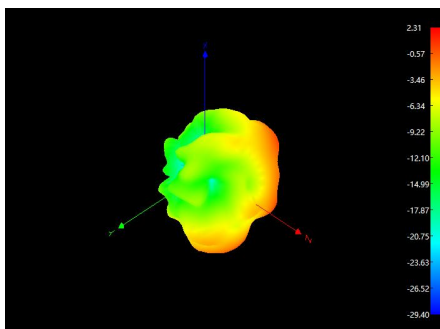


3D 2400:

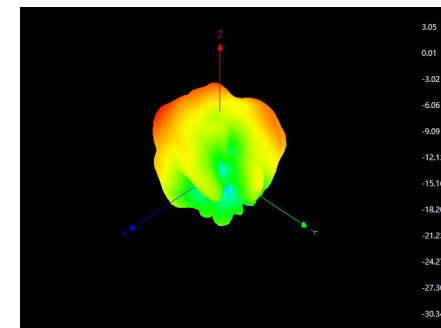
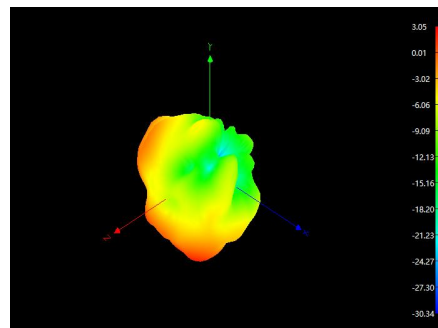
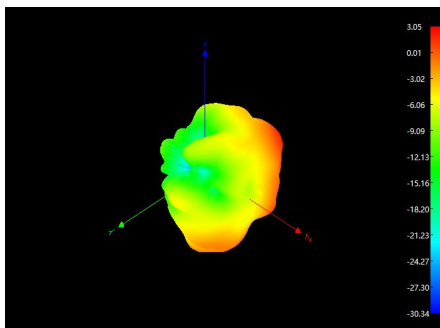




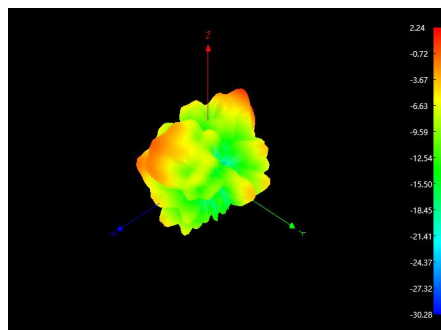
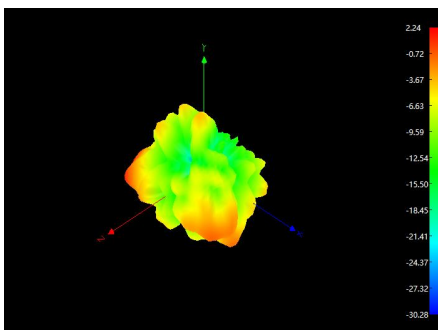
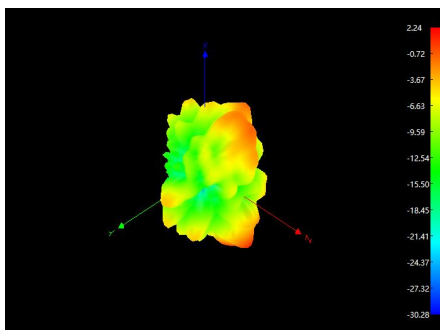
3D 2450:



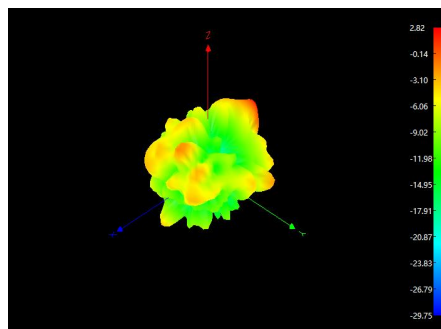
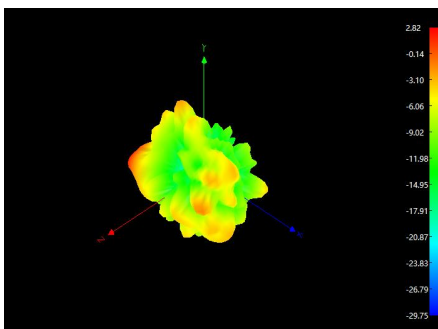
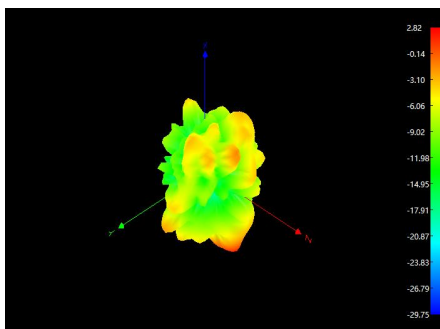
3D 2500:



3D 5150:

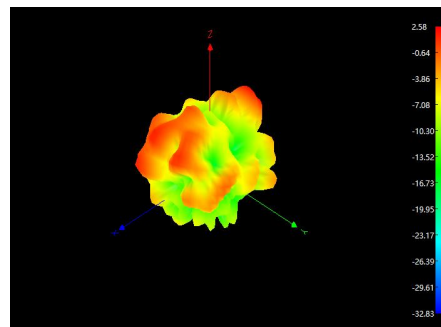
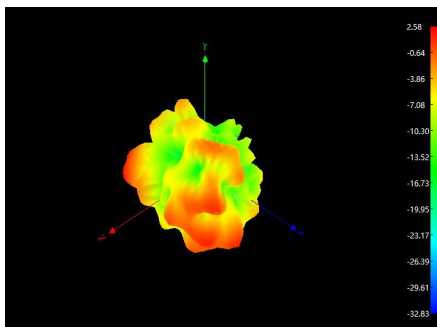
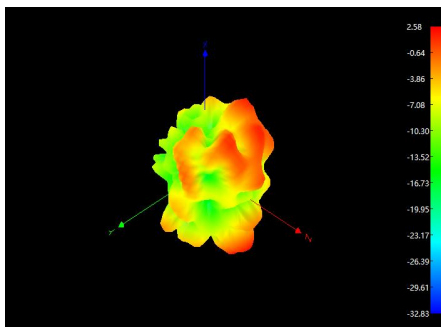


3D 5550:





3D 5850:





OTA 有源测试数据统计:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_B (11M)	1	2412	14
2	TRP	WIFI_B (11M)	6	2437	15.15
3	TRP	WIFI_B (11M)	11	2462	14.02
4	TIS(EIRP)	WIFI_B (11M)	1	2412	-81.15
5	TIS(EIRP)	WIFI_B (11M)	6	2437	-80.58
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-79.54
7	TRP	WIFI_G (54M)	1	2412	15.44
8	TRP	WIFI_G (54M)	6	2437	16.26
9	TRP	WIFI_G (54M)	11	2462	16.29
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-71.68
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-72.29
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-70.52
13	TRP	WIFI_N_ISM (65M)	1	2412	14.37
14	TRP	WIFI_N_ISM (65M)	6	2437	14.96
15	TRP	WIFI_N_ISM (65M)	11	2462	15.59
16	TIS(EIRP)	WIFI_N_ISM (65M)	1	2412	-68.3
17	TIS(EIRP)	WIFI_N_ISM (65M)	6	2437	-69.81
18	TIS(EIRP)	WIFI_N_ISM (65M)	11	2462	-67.18
19	TRP	WIFI_A (54M)	36	5180	16.02
20	TRP	WIFI_A (54M)	149	5745	15.74
21	TRP	WIFI_A (54M)	165	5825	15.67
22	TIS(EIRP)	WIFI_A (54M)	36	5180	-72.3
23	TIS(EIRP)	WIFI_A (54M)	149	5745	-71.71
24	TIS(EIRP)	WIFI_A (54M)	165	5825	-71.79



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ROHS 物料控制报告

兹证明向贵司交货的零组件、辅助材料所使用的原材料、以及生产工程中的添加剂等均符合 RoHS 限制使用有害物质指令的环保要求 (RoHS 指令 2011/65/EC)

关于零组件、辅助材料所使用的原材料、包装材料以及和产过程中使用的添加剂等的构成成份报告如下:

组成物料名称 Component /Part Name	组成材料 Material Composition	ICP 报告编号 ICP report #	测试机构 Test Org.	测试时间 Test Date	有 害 物 质 含 量(ppm)						是否合格? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
线材	同轴线缆	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
端子	磷青铜	CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	金镀层	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	胶芯	ETR23705931	SGS	23/08/04	ND	ND	ND	ND	ND	ND	PASS
环保锡丝	环保锡丝	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS
PCB	PCB	CANEC24019790710	SGS	24/09/14	ND	17	ND	ND	ND	ND	PASS
3M 胶	3M9448A	CANEC24028865442	SGS	25/01/03	ND	14	ND	ND	ND	ND	PASS