



深圳市英佳创电子科技有限公司

<http://www.szsyjc.com>

# APPROVAL SHEET

## 承认书

CUSTOMER NAME 客户名称	泽行	
CUSTOMER P/N 客户料号	1125FPC75MM00	
PART NAME 品名	2.4G black FPC built-in antenna, 1.13 black line L=75MM	
P/ N 料号	YJC-6N075-B87	
APPROVAL REV. 版次	A0	
DELIVERY DATE 送样日期	2024年01月13日	
PREPARED BY 承办	Yin Feijie	
CHECKED BY 审核	Fang Wenfeng	
APPROVED BY 核准	肖汉	
Customer Approved 客户承认		
Prepared By 承办	Checked By 审核	Approved By 核准

总部地址：深圳市光明区马田街道油麻岗路 11 号宏域光明谷 C 栋

东莞分厂：东莞市桥头镇石水口银河三路 2 号英佳创产业园

杭州办事处：杭州市滨江区物联网街 369 号大华江虹国际创新园 B 栋 212

绵阳办事处：四川省绵阳市高新区绵兴东路 35 号万向高新国际 4F-34 号

电话：0755-27810060

传真：0755-27810057

网址：<http://www.szsyjc.com>

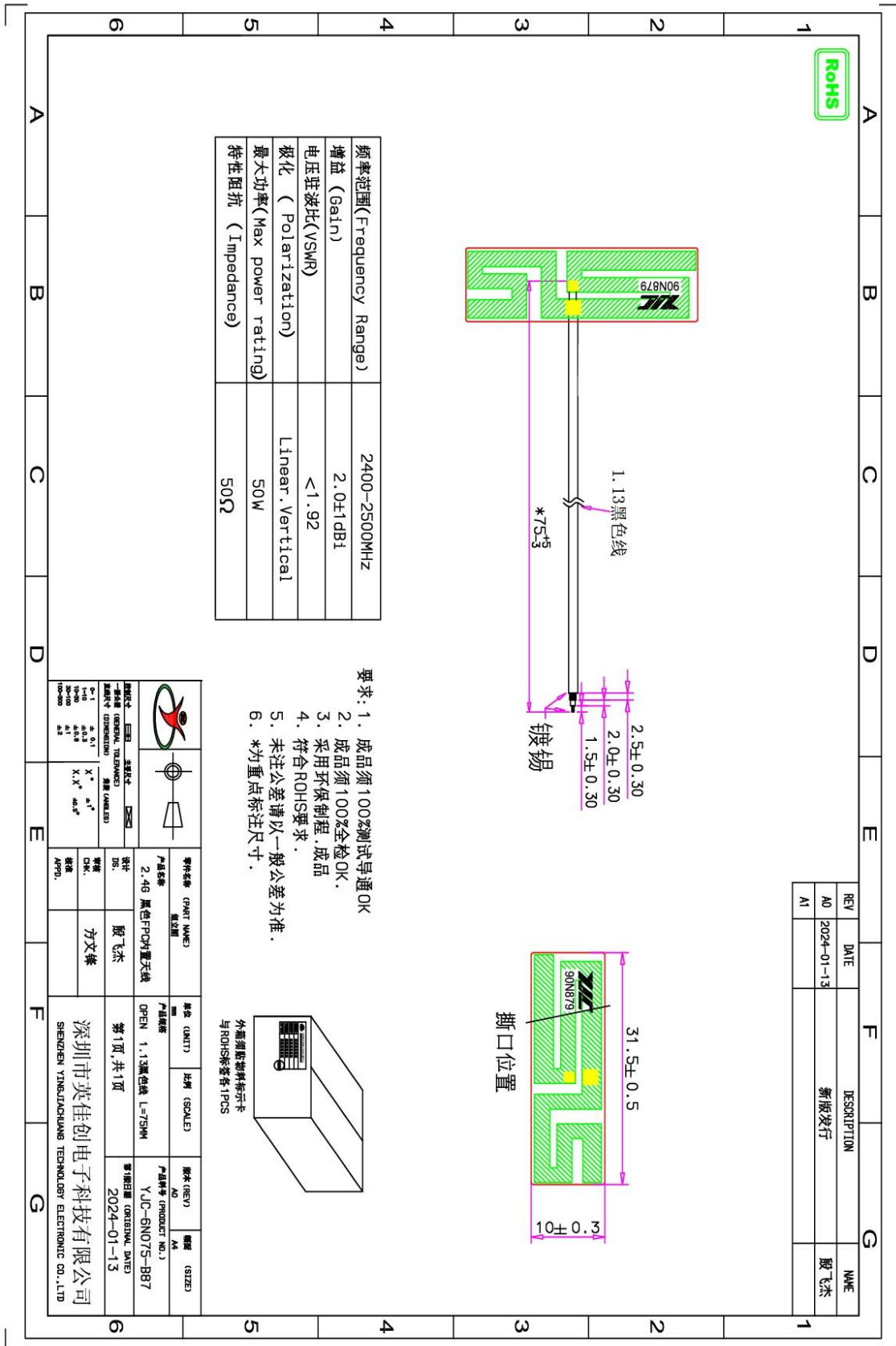


## 目录

1、	封面。 . . . . .	1
2、	目录。 . . . . .	2
3、	履历表。 . . . . .	3
4、	天线平面图。 . . . . .	4
5、	天线技术参数及环境性能测试。 . . . . .	5
6、	天线实物图。 . . . . .	6
7、	天线性能测试图。 . . . . .	6
8、	2D.3D (2.4G) 测试数据。 . . . . .	7-8
9、	ROHS 物料控制报告。 . . . . .	9



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	2400-2500MHz	Frequency Range	2400-2500MHz
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	2.0±1dBi	Gain	2.0±1dBi
机械指标		Mechanical Specifications	
线材颜色	黑色	Wire Color	Black
接口形式	OPEN	Input connector	OPEN
线材长度	75MM	Wire Length	75MM
工作温度	-20°C~+70°C	Working Temperature	-20°C~+70°C
工作湿度	20%~80%	Working Humidity	20%~80%

环境性能测试:

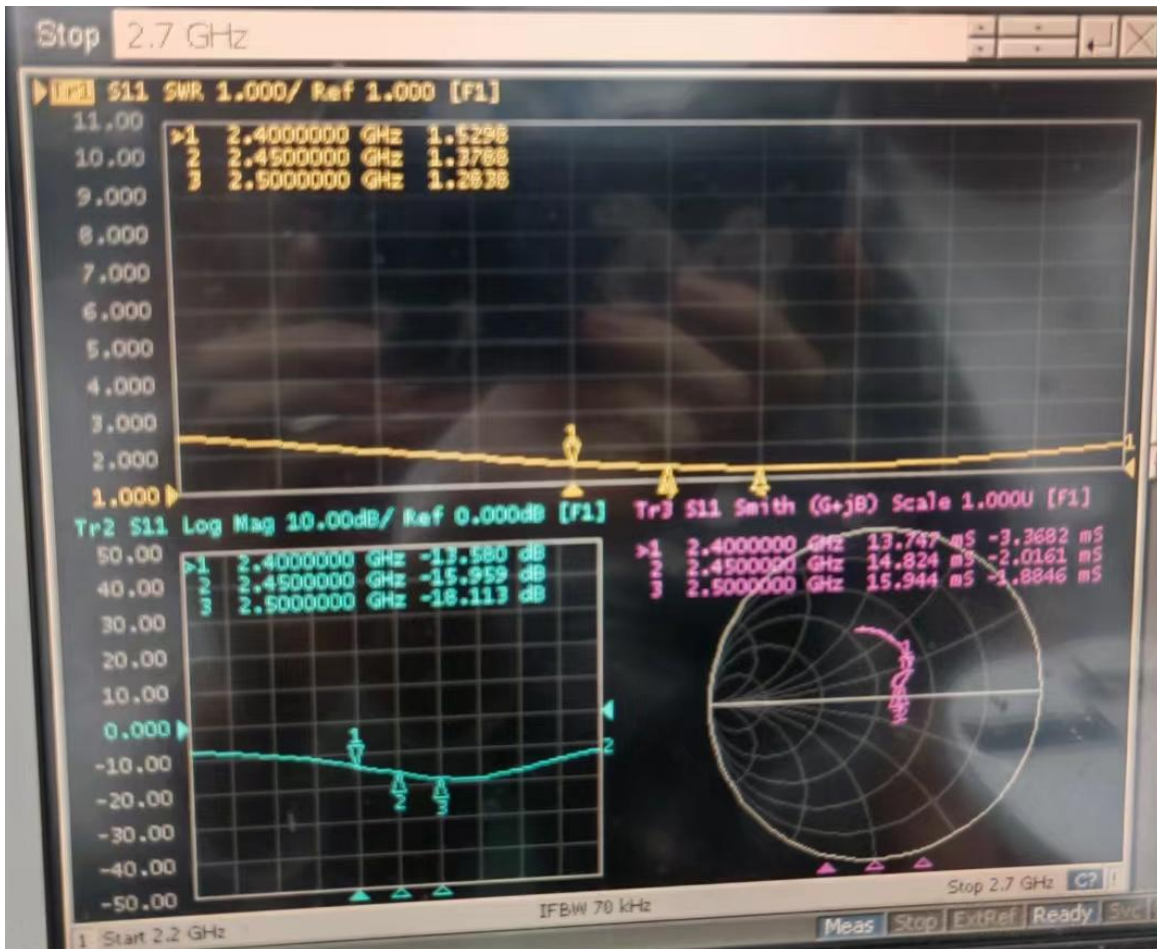
project	test condition	specification
storage environment	The temperature, humidity, and air pressure are tested as follows: 1. The temperature ranges from -20 ° C to +70 ° C 2. Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical properties are normal
thermocycling	The appearance quality is checked after 5 cycles between 70 ° C and -20 ° C, and then 1-2H under normal conditions.	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical propertie
Steady-state tolerance Damp heat test	The relative humidity was 95±3%, and the test temperature was 40°C. After 2H treatment, the electrical properties were measured within 5min after the samples were taken out, and the appearance quality of the samples was checked under normal conditions for 1-2H	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Vibratory test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times	Electrical and mechanical properties are normal
drop test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	Electrical and mechanical properties are normal



Antenna diagram:



Antenna perfor:

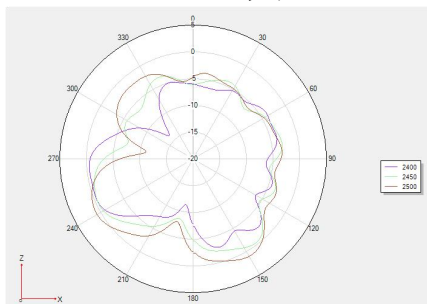




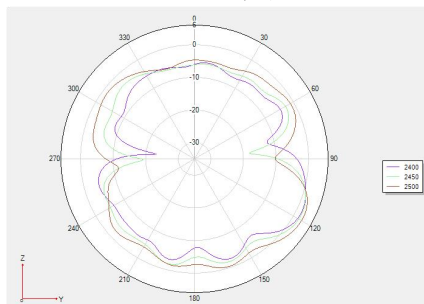
2D、3D(2.4G)测试数据:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	54.57	2.76
2410MHz	56.45	2.95
2420MHz	56.13	2.98
2430MHz	56.99	2.76
2440MHz	59.32	2.80
2450MHz	58.31	2.40
2460MHz	60.47	2.36
2470MHz	61.64	2.29
2480MHz	61.17	2.19
2490MHz	62.00	2.22
2500MHz	62.24	2.90

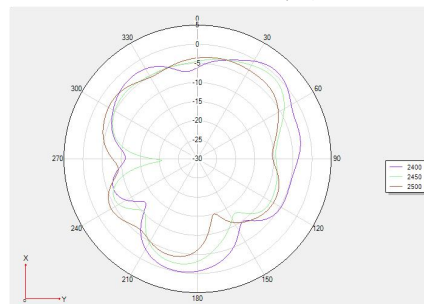
Phi 0 2D 图:



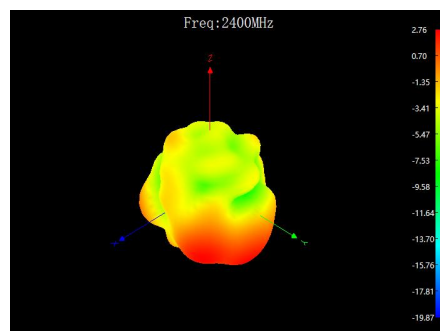
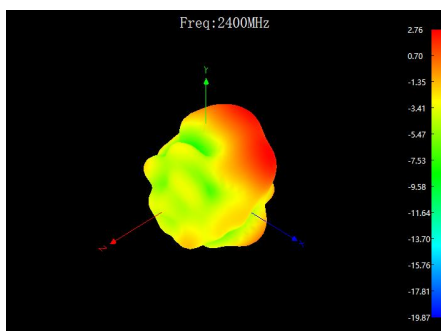
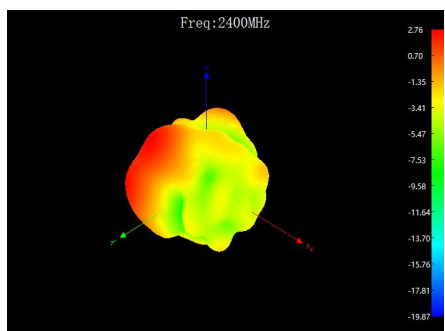
Phi 90 2D 图



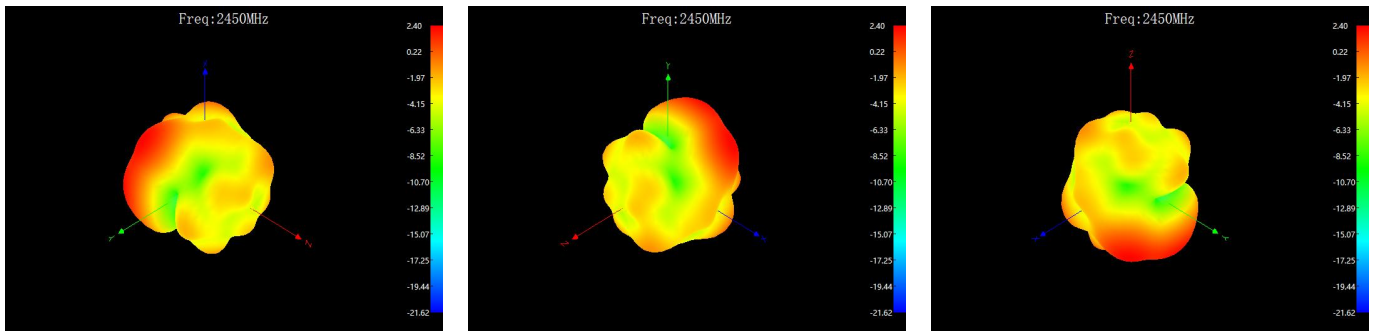
Theta 90 2D 图



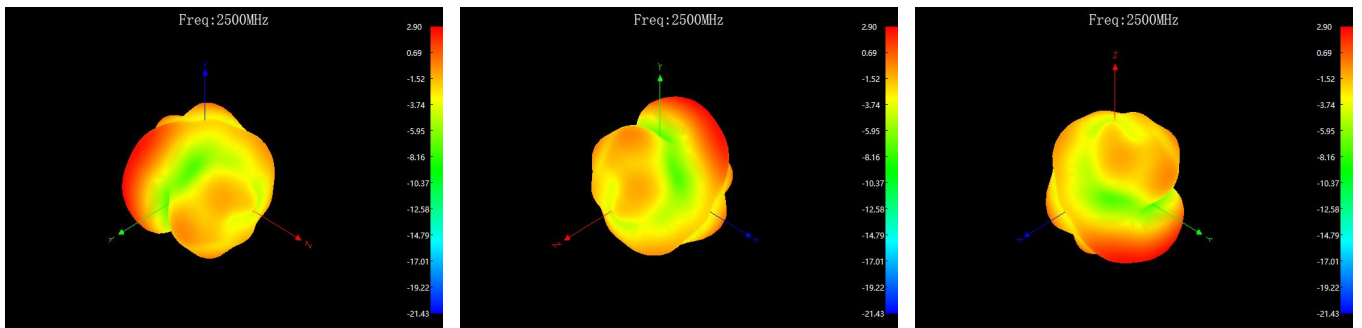
3D 2400:



3D 2450:



3D 2500:





ROHS 物料控制报告

This is to certify that the components delivered to your company, the raw materials used in the auxiliary materials, and the additives used in the production engineering comply with the environmental requirements of the RoHS Directive on the Restriction of the use of Hazardous Substances (RoHS Directive 2011/65/EC).

The components of components, raw materials used in auxiliary materials, packaging materials and additives used in the production process are reported as follows:

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 <sup>6+</sup>	PBB	PBDE	PASS
wire rod	Teflon is coaxial cable	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
FPC	FPC	FTS2302160201-01C1	SGS	23/02/20	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friendly tin wire	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS