




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	觅睿	
CUSTOMER P/N 客户料号		
PART NAME 品 名	2.4G Internal Antenna	
P/ N 料 号	YJC-6N000-B315	
APPROVAL REV. 版 次	V1.0	
DELIVERY DATE 送样日期	2022 年 04 月 18 日	
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APPROVED BY 核 准		肖 汉
Customer Approved 客 户 承 认		
Prepared By 承 办	Checked By 审 核	Approved By 核 准

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目录

1、	Cover	1
2、	Catalogue	2
3、	Revise Resume	3
4、	Antenna Plan	4
5、	Antenna technical parameter	5
6、	Environmental performance test	5
7、	Antenna physical diagram and attached location diagram	6
8、	Antenna performance test diagram	6
9、	2D.3D (2.4G) test data	7
10、	ROHS Material control report	8

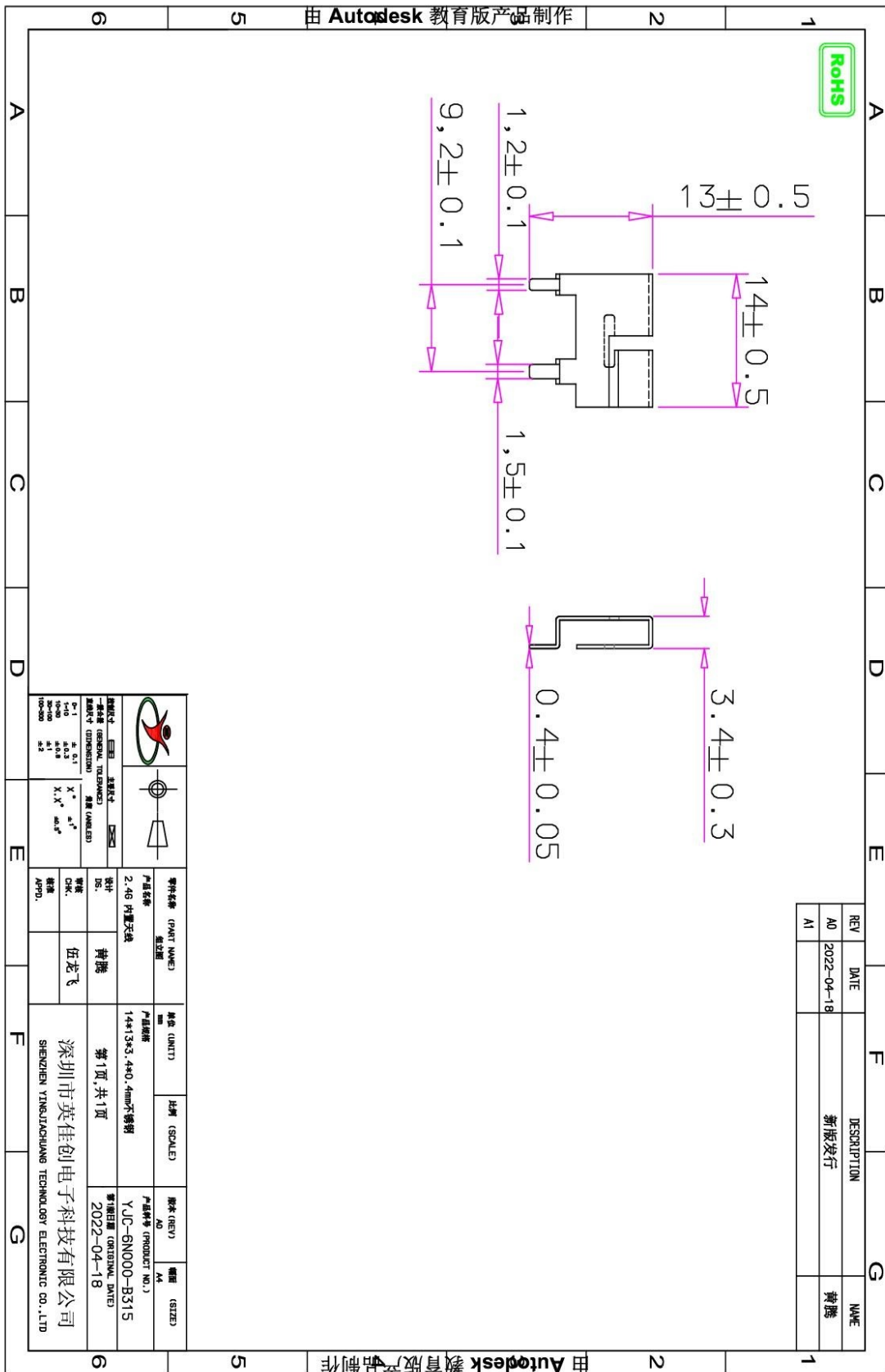


Revise Resume:

Edition	Content of change and reasons for change	Day period	Issue
V1.0	Initial release	2022/04/18	



Antenna plan:





Antenna technical parameters and environmental testing:

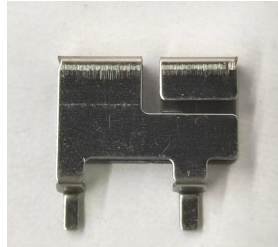
电气技术参数			
电性能指标		Electrical Specifications	
频率范围	2400-2500MHz	Frequency Range	2400-2500MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	2.88dBi	Gain	2.88dBi
机械指标		Mechanical Specifications	
天线材质	不锈钢	Antenna material	Stainless steel
接口形式	OPEN	Input connector	OPEN
工作温度	-20℃~+70℃	Working Temperature	-40℃~+85℃
工作湿度	20%~80%	Working Humidity	20~80%

Environmental performance test:

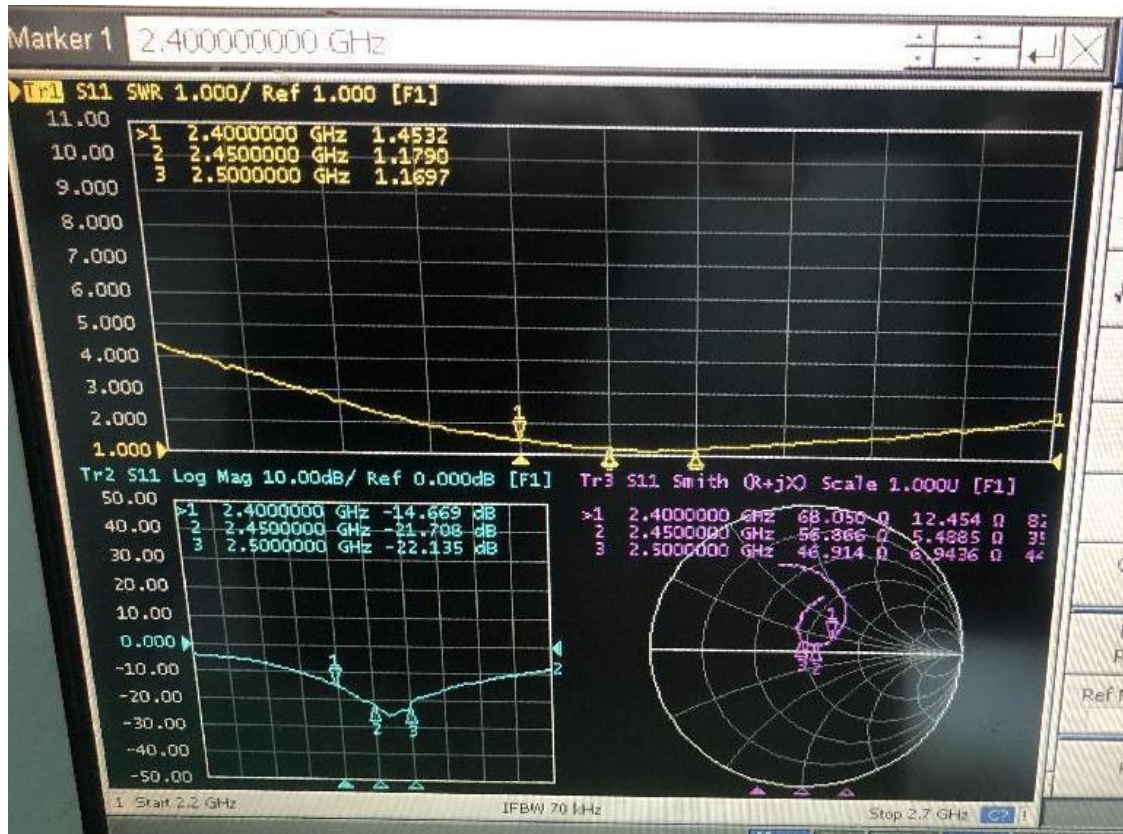
item	Test condition	specification
Storage environment	Test temperature, humidity, and air pressure without specifying the following: 1. The temperature ranges from -30℃ to +80℃ 2. Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical properties are normal
High and low temperature test	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 properties
Resistance to constant damp heat test	The relative humidity is 95 3%, the test temperature is 40C. After 2H continuous action, the electrical properties of the test product are measured within 5min after taking out, and the appearance quality of the test product is checked under normal conditions for 1-2H	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Vibration 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 performance test diagram:





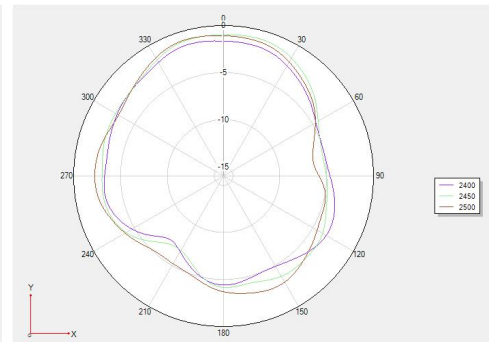
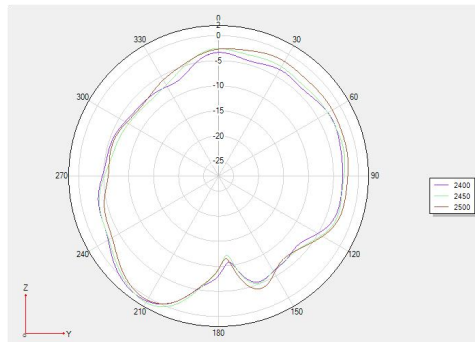
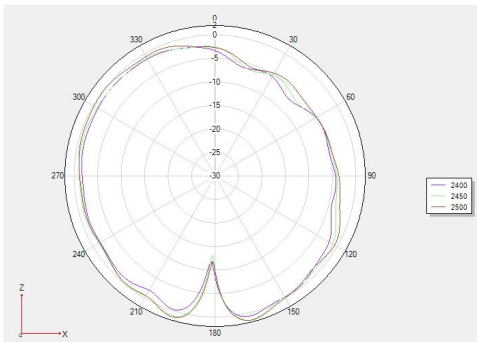
2D and 3D test data (2.4G):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	51.29	1.64
2410MHz	51.29	2.24
2420MHz	52.72	1.98
2430MHz	52.24	2.16
2440MHz	52.72	1.88
2450MHz	55.21	2.62
2460MHz	54.83	2.25
2470MHz	53.7	2.47
2480MHz	55.46	2.63
2490MHz	55.59	2.88
2500MHz	55.08	2.77

Phi 0 2D 图:

Phi 90 2D 图

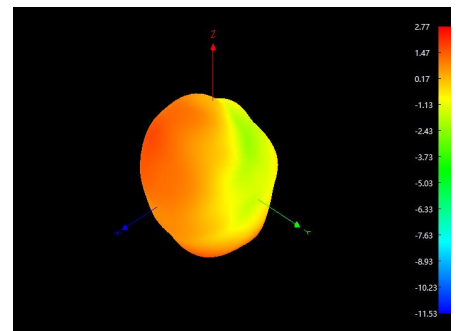
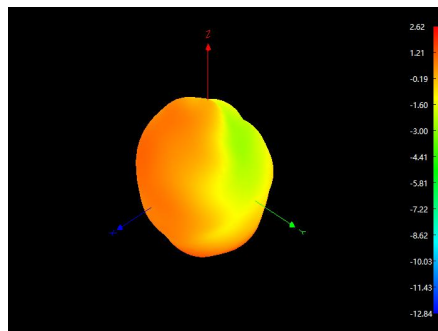
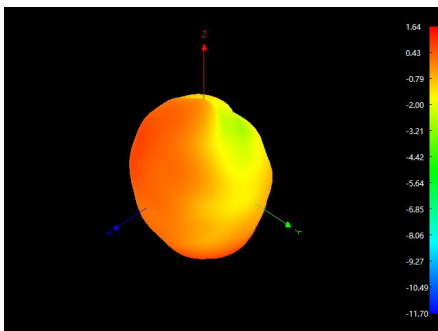
Theta 90 2D 图



3D 2400:

3D 2450:

3D 2500:





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Material RoHS compliance declaration form

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 ⁶⁺	PBB	PBDE	PASS
Stainless steel parts	Plain carbon steel	SZXEC2200123701	SGS	22/01/18	ND	ND	ND	ND	ND	ND	PASS