



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

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承认书 APPROVAL

version: A1

客 户
CUSTOMER:

品 名 规 格 2.4 built-in PCB spring antenna 100m
DESCRIPTION:

料 号
PART NO.: YS030-0151

客 户 料 号
CUS PART NO.:

日 期
D A T E: 2026-1-6

呈样签章:

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章：

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

※ Customer confirms sample attachment column:

电器技术参数/Electrical technical parameters

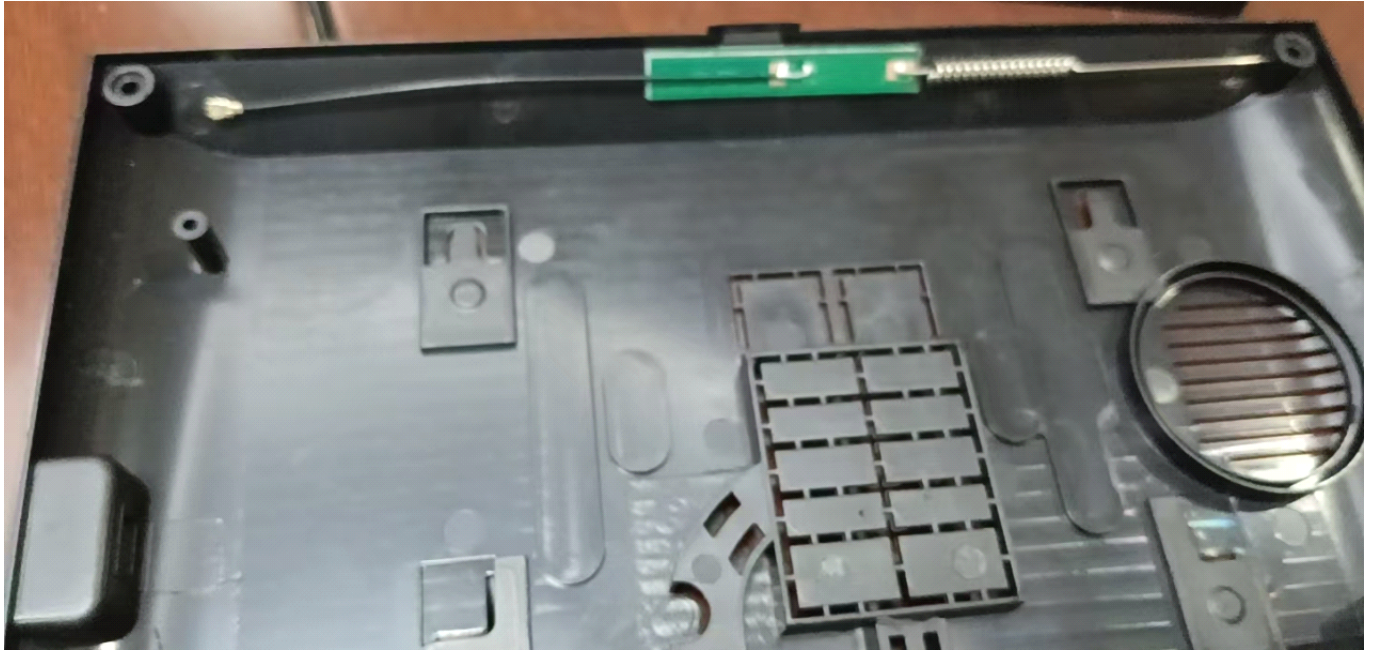
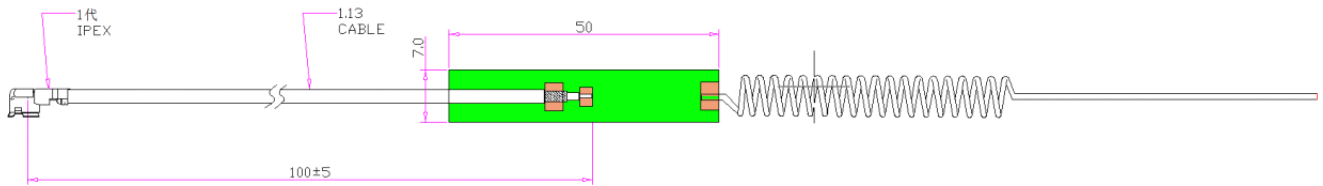
电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500MHZ	Frequency Range	2400-2500MHZ
电压驻波比	≤ 2.0	VSWR	≤ 2.0
最大增益	3.62dBi	MAX GAIN	3.62dBi
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	BLACK
接口形式	IPEX	Input connector	IPEX
工作温度	-40 $^{\circ}$ C ~+85 $^{\circ}$ C	Working Temperature	-40 $^{\circ}$ C ~+85 $^{\circ}$ C
工作湿度	20~80%	Working Humidity	20~80%

Product image:

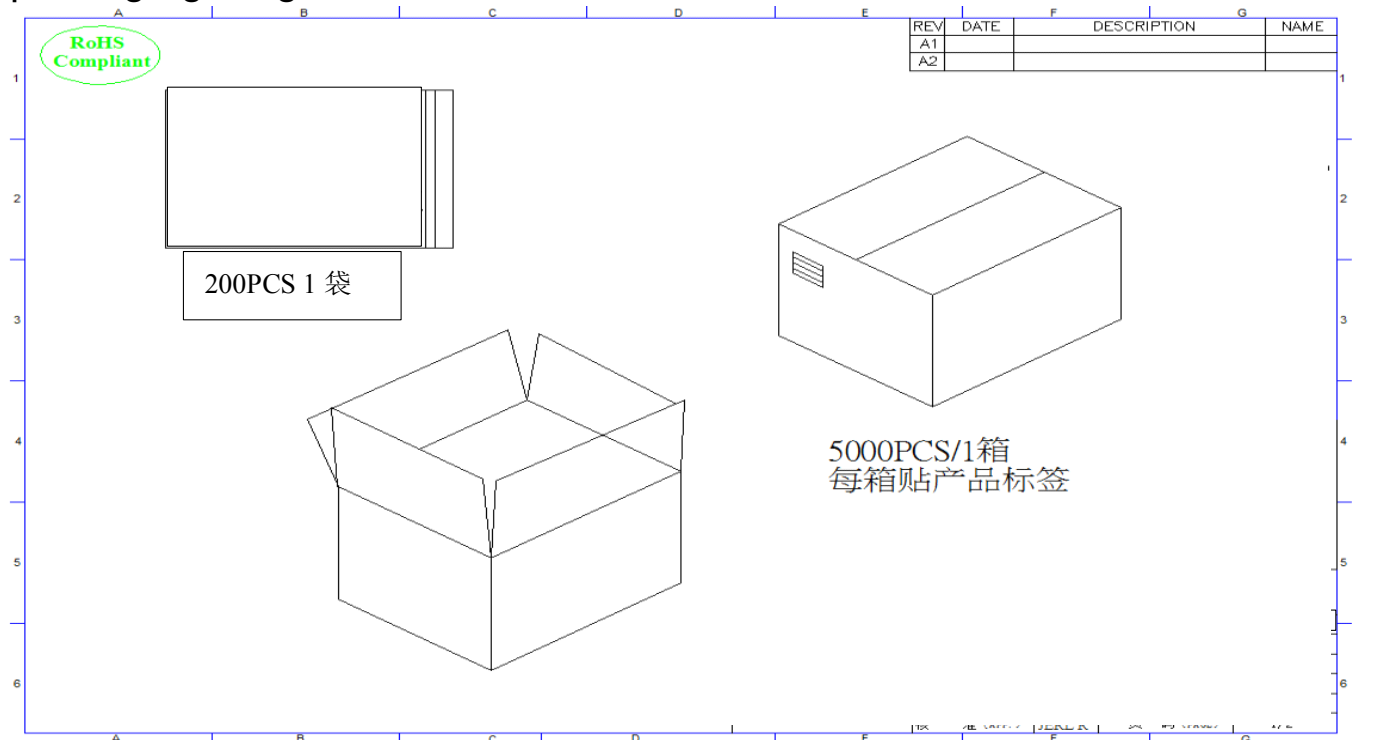


Specification Drawing:

Size:mm



packaging diagram:

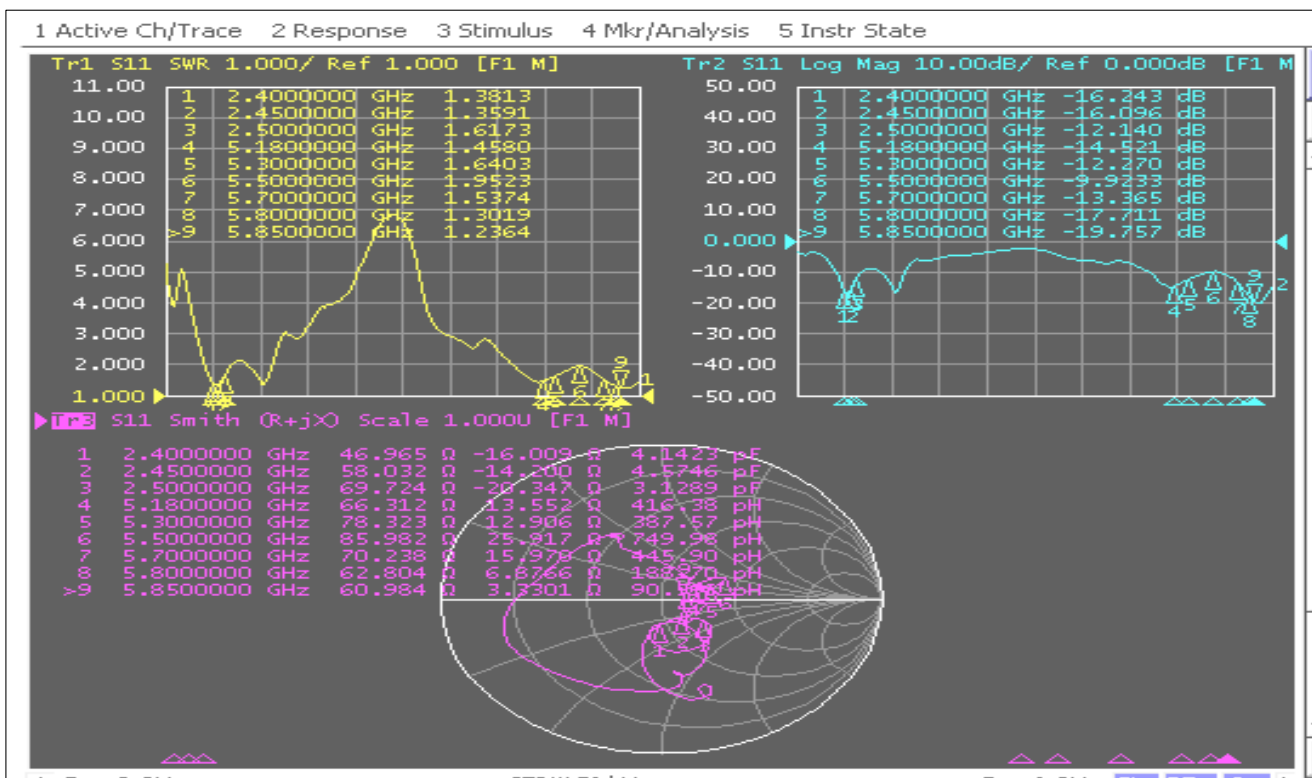




Environmental performance testing:

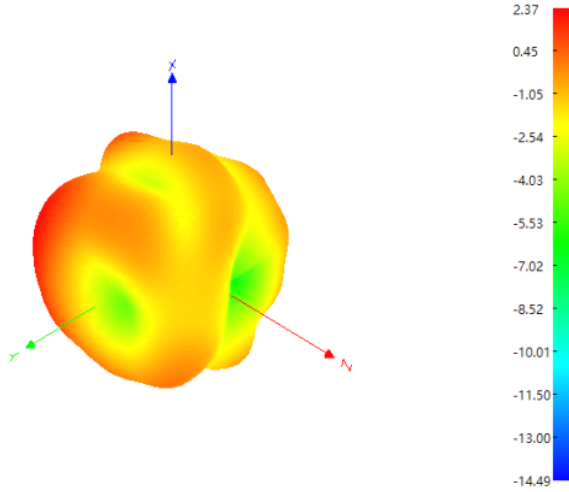
project	test conditions	Specifications
Storage environment	Test temperature, humidity, and air pressure without specifying as follows: 1. The temperature ranges from -30 to +80 2. Relative humidity is 45% -85% 3. The air pressure ranges from 86kpa to 16kpa	Normal electrical and mechanical performance
high and low temperature test	Perform 5 cycles between 70 °C and 40 °C, and then under normal conditions 1-2H, Check the appearance quality.	The size should meet the requirements and should Satisfy and satisfy Regarding mechanical and electrical performance
Constant humidity and heat resistance test	Relative humidity 95 ± 3%, test temperature: 40 °C After a continuous action of 2 hours, Measure the electrical performance of the test sample within 5 minutes after removal, and the test sample should be in normal condition After 1-2 hours, check the appearance quality	The size should meet the requirements and should Satisfy and satisfy Regarding mechanical and electrical performance
vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, Frequency sweep cycle times: 30 times	Normal electrical and mechanical performance
drop test	Free fall 3 times from a height of 1M along mutually perpendicular axes	Normal electrical and mechanical performance

Sample testing:

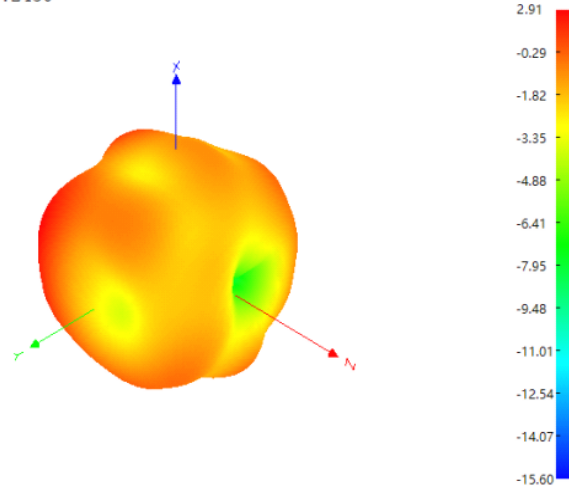


Gain test:

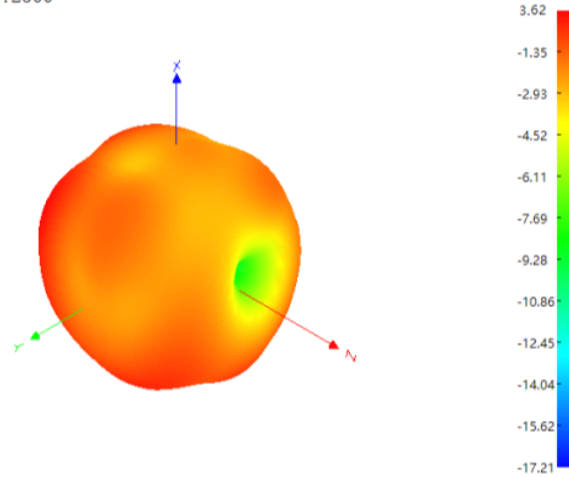
Frequency (MHz) : 2400



Frequency (MHz) : 2450



Frequency (MHz) : 2500





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List MaxGain/Efficiency/最大增益/总效率

MaxGain&Eff

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	2.37	-3.46	45.08
2410	2.57	-3.26	47.21
2420	2.77	-2.99	50.23
2430	2.8	-2.84	52
2440	2.9	-2.56	55.46
2450	2.91	-2.4	57.54
2460	2.91	-2.33	58.48
2470	3.19	-2.06	62.23
2480	3.34	-1.9	64.57
2490	3.47	-1.8	66.07
2500	3.62	-1.56	69.82