

深圳市安威无线科技有限公司

承认书

APPROVAL SHEET

客户 Customer	维拍	规格型号 Specs	VO33T
安威料号 Part Number	AW006-VO33T-021-A0	频 段 Frequency Band	2.4G-WIFI
颜 色 Color	黑色	版 本 Edition	REV:A0
销 售 Salesperson	黄河	设 计 Design	黄河
结 构 Structure	覃云林	确 认 Confirm	
日 期 Date	2024.01.20	签字日期 Signing Date	

客户确认 Customer confirmation:

携手共进 共创未来

Join hands to create the future

1. Product specifications

The report mainly provides the parameter test of V033T antenna performance. The V033T antenna is a WIFI antenna. (As shown in Figure 1 below)

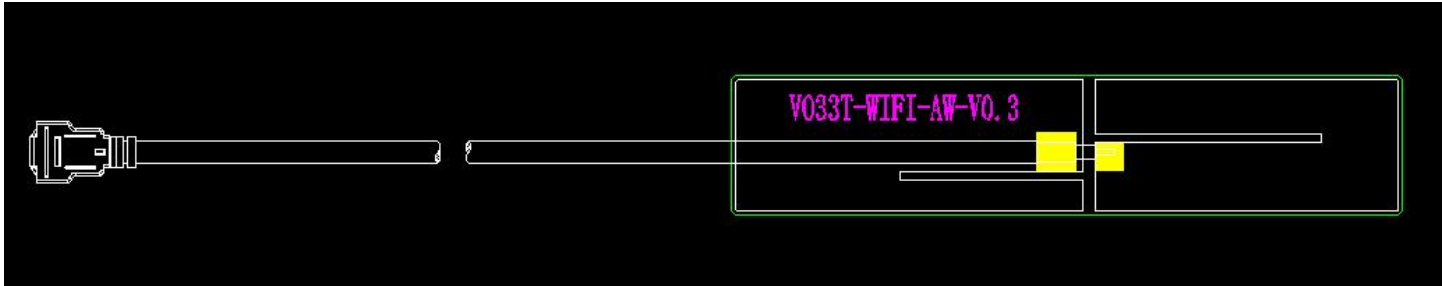


Figure 1 V033T antenna

2. Electrical performance

1. Specifications and standards

V033T antenna operates at 2400-2480 MHZ, and resonates in this frequency band.

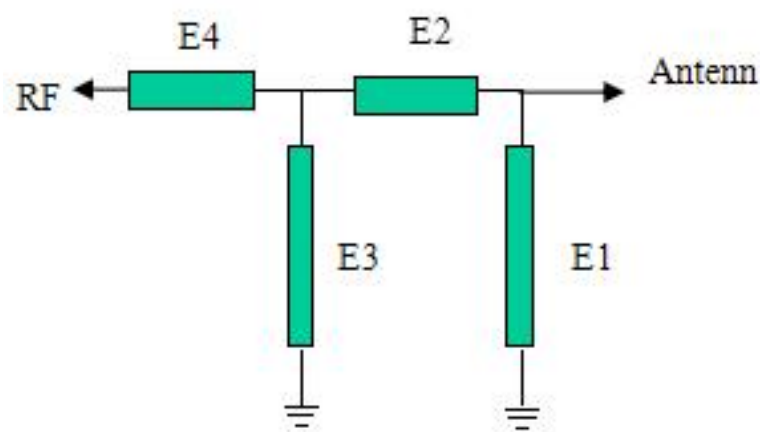
2. Antenna matching circuit

Antenna structure: FPC+ coaxial line

匹配电路（Matching circuit）

	主天线 Main Antenna	BGW	DRX	GPS
Element	Value	Value	Value	Value
E1（0201）				
E2（0201）				
E3（0201）				
E4（0201）				

(The accuracy of the matching value is recommended to use higher)



RF1	N/A	N/A
RF2	N/A	N/A
RF3	N/A	N/A
RF4	N/A	N/A

1. Test site

AW microwave darkroom: The test frequency range is 400MHz - 6GHz, the static zone range is 40cm circle, and the reflectivity is less than -90 dB.

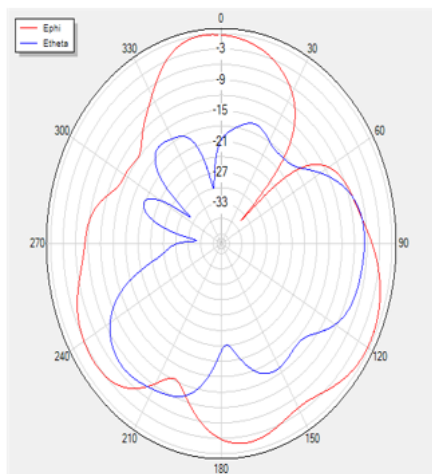
2. Test results.

The following is the test result of WIFI antenna of V033T project:

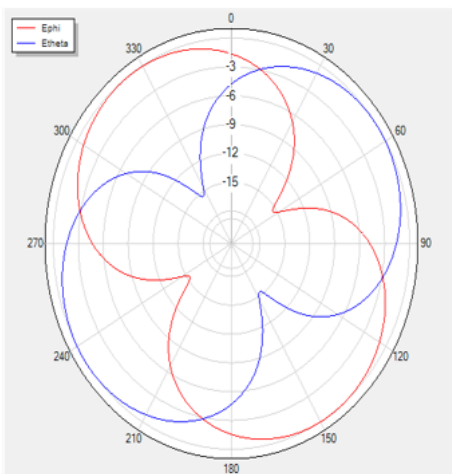
整机	Channel	TRP (dBm)	TIS (dBm)
WIFI-B	1	13.01	-68.56
	6	13.23	-76.64
	11	13.73	-77.42
WIFI-G	1	13.56	-56.24
	6	13.2	-64.96
	11	14.38	-66.89
WIFI-N	1	13.7	-56.3
	6	13.62	-64.99
	11	14.46	-65.01

Gain&Efficiency 增益和效率			
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率 (dBi)	efficiency 效率 (%)
2400	2.34	-3.53	54.40
2410	2.1	-3.19	51.00
2420	2.7	-2.55	55.59
2430	1.88	-2.92	51.07
2440	2.05	-2.76	52.91
2450	2.72	-2.69	53.84
2460	3.3	-2.41	57.40
2470	3.19	-2.62	54.76
2480	3.73	-2.45	56.89
2490	4.05	-2.37	58.00
2500	3.97	-2.46	56.69

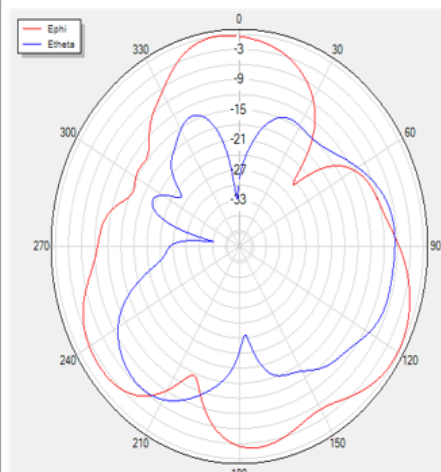
H Theta=90 freq=2400MHz



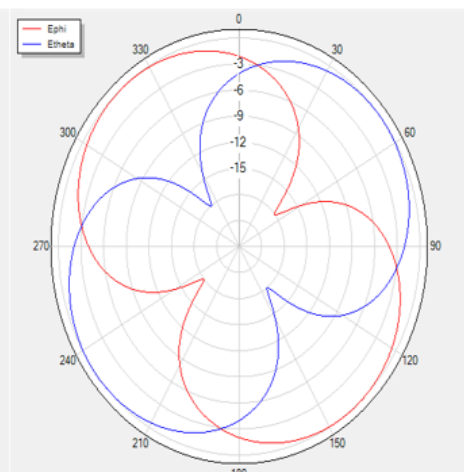
H Theta=0 freq=2400MHz



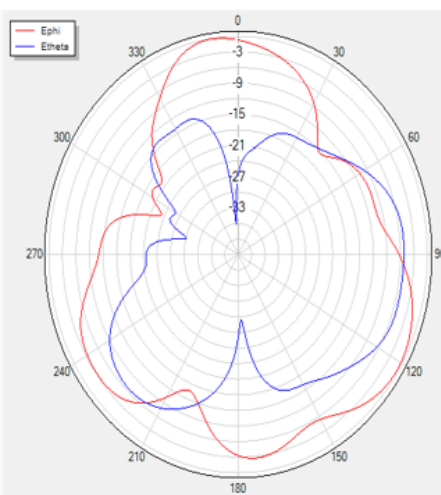
H Theta=90 freq=2440MHz



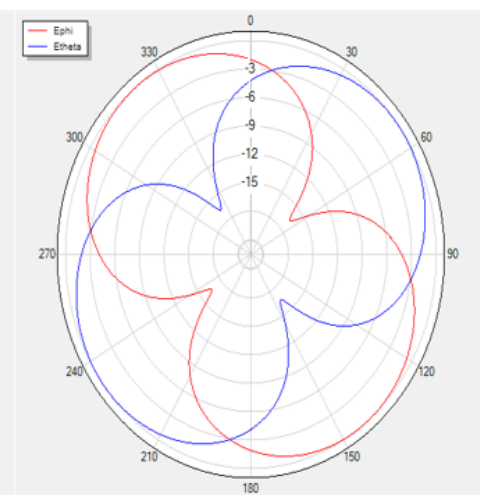
H Theta=0 freq=2440MHz

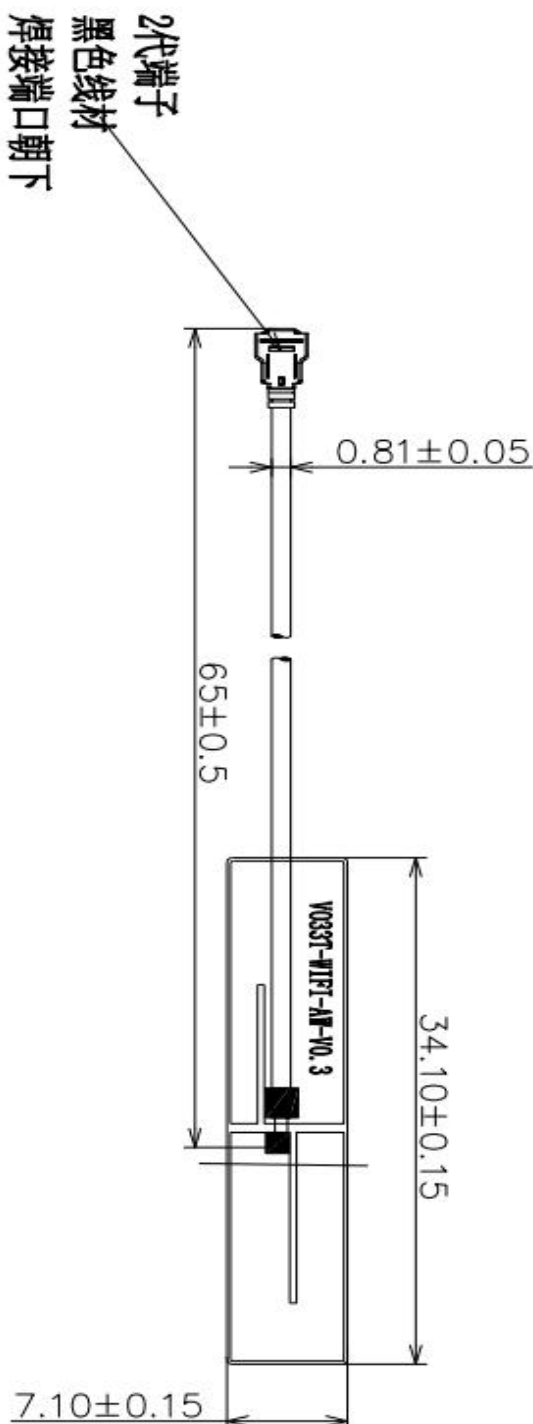


H Theta=90 freq=2480MHz



H Theta=0 freq=2480MHz





1对半材料

技术要求:

- 1、绿色为外形轮廓,白色填充部位为电气走线轮廓;
- 2、基材材质为聚酰亚胺或聚醚醚酮;
- 3、图示为正面,反面背胶,此PCB背胶为300MLSP(9471);
- 4、打*为必测尺寸及重点尺寸,铜箔线路所有尺寸公差不能超过 ± 0.05 ,模具冲出外形尺寸公差不能超过 ± 0.1 ,未注尺寸以图形为准;
- 5、基材25 μ m,铜箔18 μ m,镀锡 $\pm 5\%$,0.0mm;镀金0.025~0.075 μ m;
- 走线面除焊盘外其它区域表面亚光黑色;
- 6、可靠性测试:盐水喷雾试验(8H\1级皮革漆测试(100个循环)\耐磨性测试(50个循环)\耐刮性测试(12个循环)\附着力测试(金手指引脚处折挠性测试;恒湿恒湿试验\冷热冲击试验
- 7、出现下列问题即为不合格:起边/分层/露铜/折痕、折痕/边缘毛边/字符不清;
- 8、包装应防潮、防晒、表面干净,完好无破损。

深圳市安威无线科技有限公司									
第三视图					日期		2023-09-09		
					设计		MD gongminbo RF HH		
					审核				
					批准				
					单位				
项目名称					Y033T				
产品名称					WiFi天线				
产品料号					AM005-Y033T-021-A10				
材质					FPC				
角度					比例				
第1页, 共1页					版本				
					AI				