

深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

SHENZHEN

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

承認書 APPROVAL SHEET

客 户
:

悟騰/Wuteng

品 名 规 格

EDP-1.13-L200-IPEX Generation 1

DESCRIPTION:

料 号

PART NO.:

客 户 料 号

CUS PART NO.:

日 期

2025-7-2

D A T E:

天线类型

FPC Antenna

Antenna type:

云顶呈样签章

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

TEL: 0755 23073599

※ The acknowledgement form is in three copies. Our company, Huimeng, hereby affirms and signs.

※ Approval in duplicate, please signed by your company.

地址: 深圳市宝安区航空路锦驰中心 3015

Address: Room 3015, Jinchi Center, Aviation Road, Bao'an District, Shenzhen City

深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

1. 测试项目与设备/Testing items and equipment

	测试项目/Testing items	设备/Equipment
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	Network Analyzer: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber2. Comprehensive tester: Agilent 8960 E5515B ×2 StarPoint SP6011 Cmw500
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D



深圳市云顶通讯电子有限公司

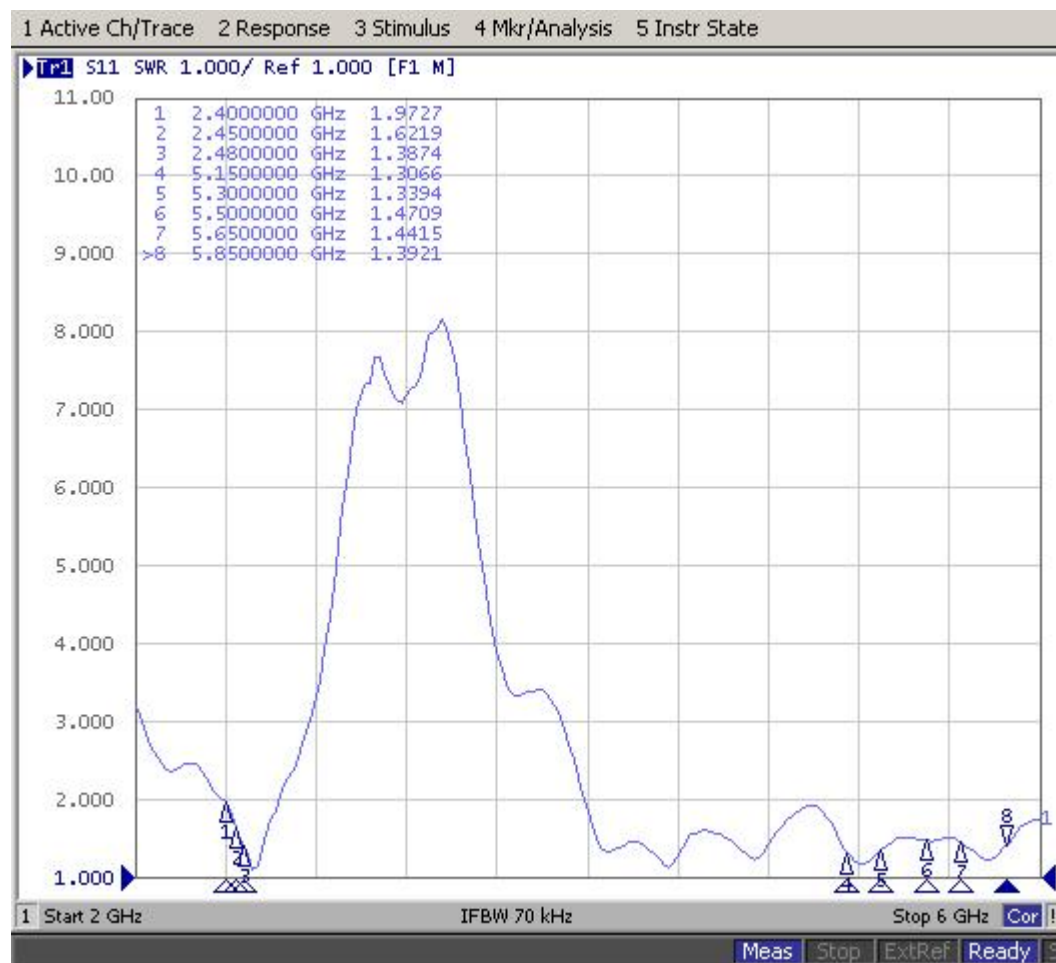
Shenzhen Yunding Communication Electronics Co., Ltd.

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail: wht0809@163.com

2. 天线性能/Antenna performance SWR



深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

TEL: +86 0755-23073599

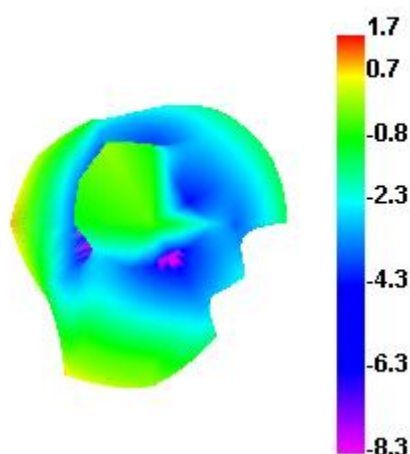
FAX: +86 0755-23097189

E-mail:wht0809@163.com

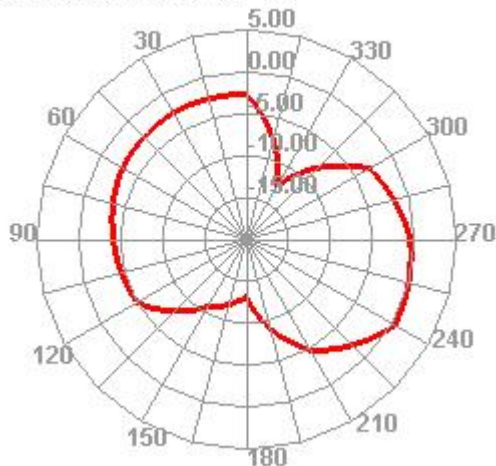
3. 天线效率与增益/Antenna efficiency and gain

Passive Test For WIFI		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	52.68	1.71
2410	52.05	1.76
2420	50.39	1.71
2430	52.7	1.92
2440	55.75	2.13
2450	60.31	2.34
2460	61.16	2.26
2470	61.66	2.17
2480	62.54	2.13
2490	63.7	2.15
2500	64.07	2.23

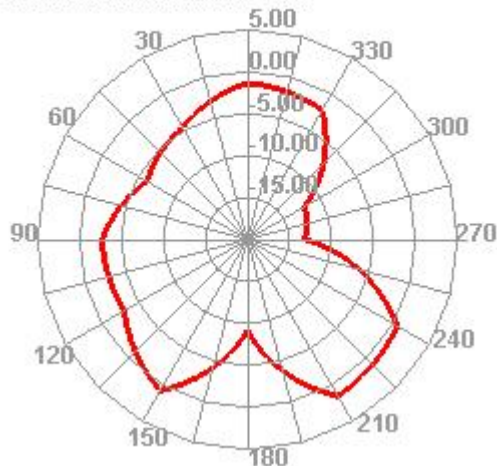
2400.000MHz



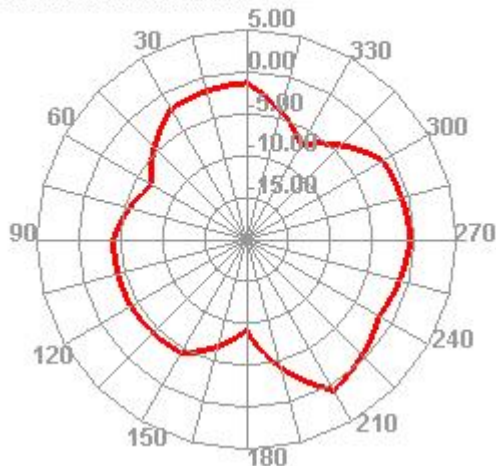
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

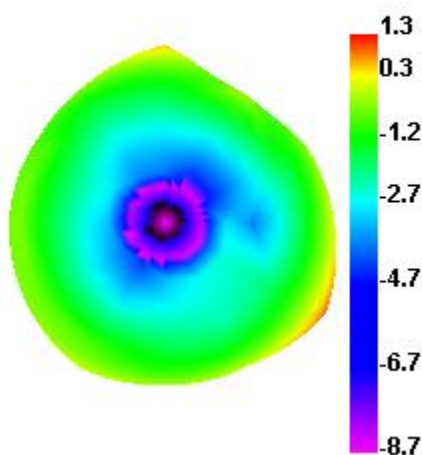
TEL: +86 0755-23073599

FAX: +86 0755-23097189

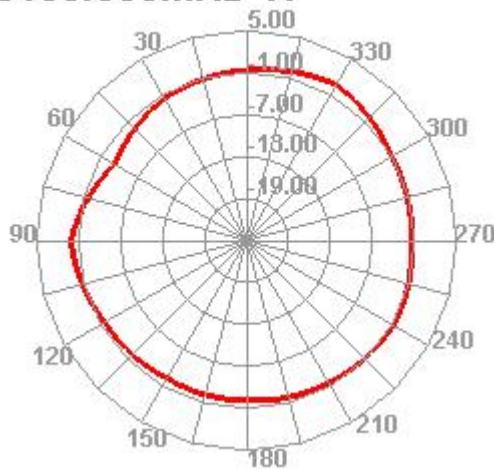
E-mail:wht0809@163.com

Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	57.65	1.29
5200	52.36	0.76
5250	46.79	0.16
5300	49.36	0.4
5350	58.05	1.13
5400	65.74	1.8
5450	58.96	1.53
5500	60.61	1.74
5550	63.45	2.28
5600	60.14	2.21
5650	56.98	2.02
5700	56.92	1.78
5750	59.28	2.02
5800	54.71	1.05
5850	47.4	0.66

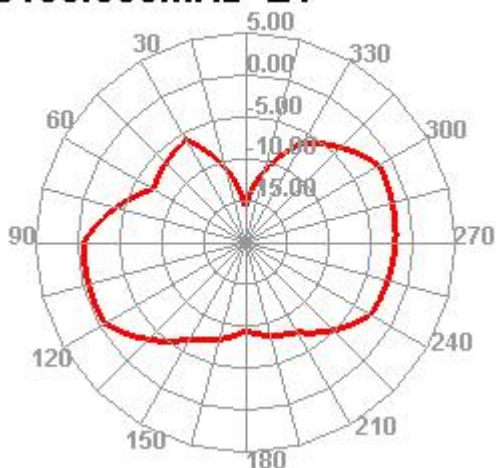
5150.000MHz



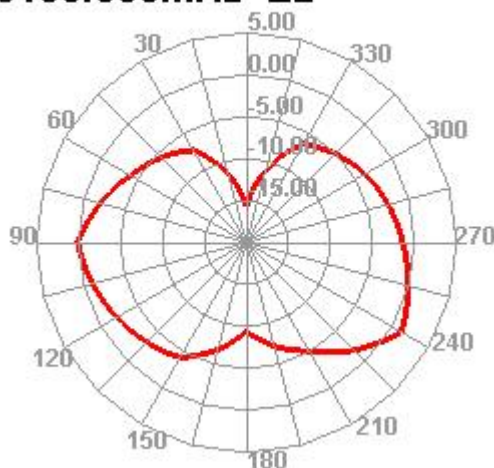
5150.000MHz H



5150.000MHz E1



5150.000MHz E2



深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

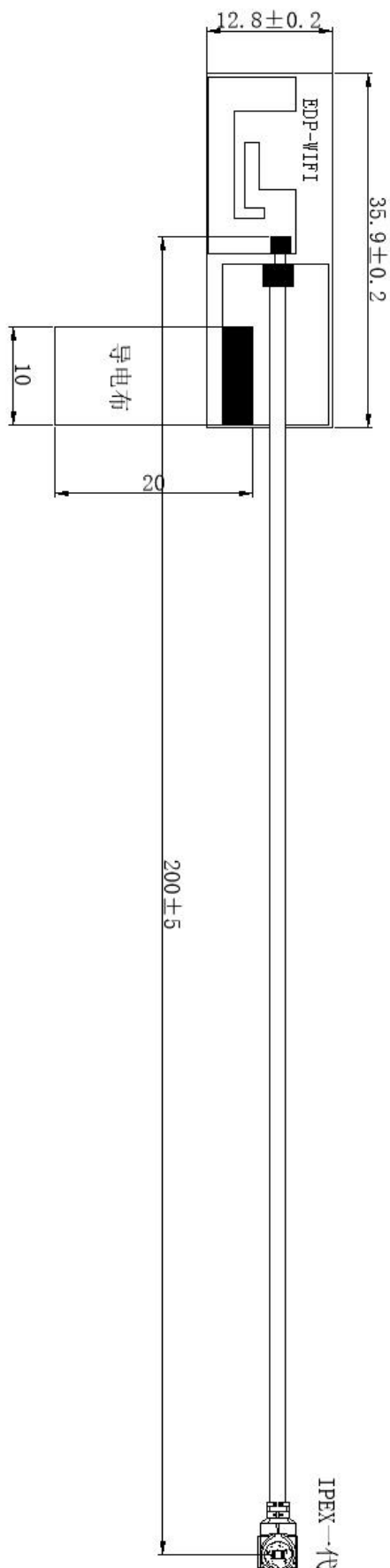
TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

4. 天线结构图/Antenna structure diagram:

Unit: mm



深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

电器技术参数/Electrical technical parameters

电 性 能 指 标/		Electrical Specifications	
频率范围	2400~2500/5150~5850Hz	Frequency Range	2400~2500/5150~5850Hz
电压驻波比	≤2.0	VSWR	≤2.0
输入阻抗	50 Ω	Input Impedance	50 Ω
增益	2.34dBi Max	Gain	2.34dBi Max
机 械 指 标		Mechanical Specifications	
线材颜色	黑色	Wire color	Black
接口形式	IPEX 一代	Input connector	IPEX 1
天线线长	200mm	Cable length	200mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd.

TEL: +86 0755-23073599

FAX: +86 0755-23097189

E-mail:wht0809@163.com

环境性能测试（Environment performance test）：

项目	测试条件	测试结果
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-40℃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

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30℃ ~ +80℃ ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40℃ to 70℃,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity:95±3%,Test temperature: 40℃,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal