

产品规格概述

●Electrical Performance:

1. Frequency Range: 2.4~2.5GHz
2. Impedance: 50 Ohms nominal
3. Admitted power radiation: 1W
4. Radiation of Radiation: Toroidal
5. Radiation: Omni
6. Polarization: Vertical
7. Connector Type: MHF4L

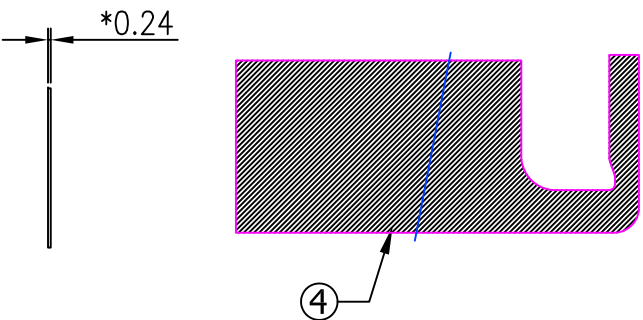
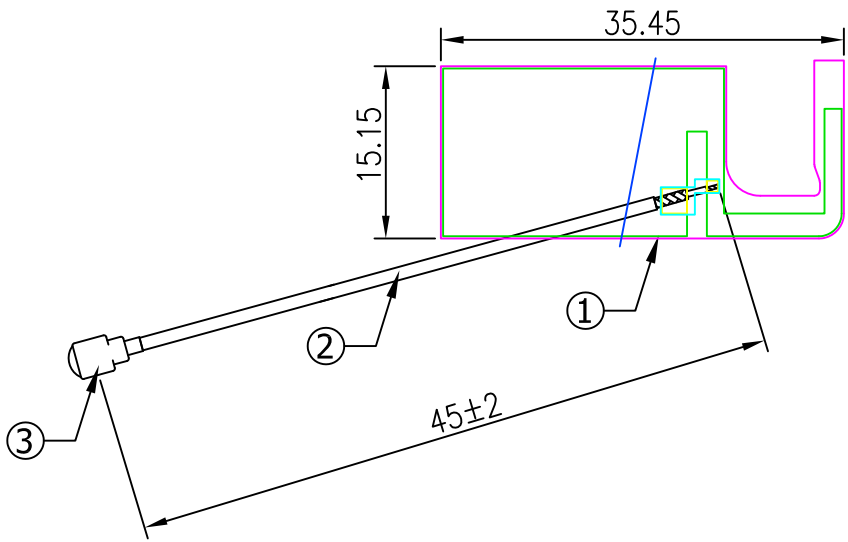
●Mechanical properties:

1. Cable: ϕ 0.81 Cable Black, 50 Ohm
2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
3. Storage temperature range: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

成品图

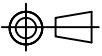
ROHS

REV.	修 订 内 容	修 订 时 间
A	新 版 发 行	2020.05.07
B	总线长25mm更改为45mm	2020.06.29
C	取消FPC印字	2020.07.21



Specification:
Frequency Rang:2.4GHz~2.5GHz

4	3M 背胶	3M LSE,L35. 45*15. 15mm	1	
3	Connector	MHF4L Plug for $\Phi 0.81\text{mm}$ Cable	1	
2	Cable	$\Phi 0.81\text{mm}$ Cable,Black,50 Ω	1	
1	FPC	L:35.45*W:15.15*T:0.24mm	1	
NO	DESCRIPTION		Q'TY	REMARK

TITLE:		FPC Antenna		 深圳市华德昌科技有限公司 ShenZhen HuaDeChang Technology Co.,Ltd					
P/N:		266-2445081-90							
CUSTOMER:		HDC-294							
DRAW NO.:		H294-10002		 APPROVED					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED									
一般公差 TOLERANCE		.XXX	±0.05	XX.	±1.0	SHEET: 1/1		SCALE: 1:1	
		.XX	±0.1						
		.X	±0.2			UNIT: mm		REV.C	
		X.	±0.5						
						CHECKED			
						DRAWED		Wu Lianpeng	

华德昌科技有限公司

网络分析仪测试图

料号: H294-10002

品名规格: FPC ANTENNA

测试数值: Return Loss/VSWR



标 准 参 数

一、技术规范

工作频率范围	2.4~2.5GHz
S. W. R	/
天线增益	/
转接方式	MHF4L
阻抗	50 Ohm

二、信赖性测试

项目	测试条件	规格
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-20℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
拉拔力测试	用推拉力计测试仪器测试其承受力度：≥10N	电气机械性能正常
衰减值	2.0(nominal) 1.0GHz 2.9(nominal) 2.0GHz 3.2(nominal) 2.4GHz 3.7(nominal) 3.0GHz 4.3(nominal) 4.0GHz 4.8(nominal) 5.0GHz 5.3(nominal) 6.0GHz	3.3dB/m (at20℃)

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

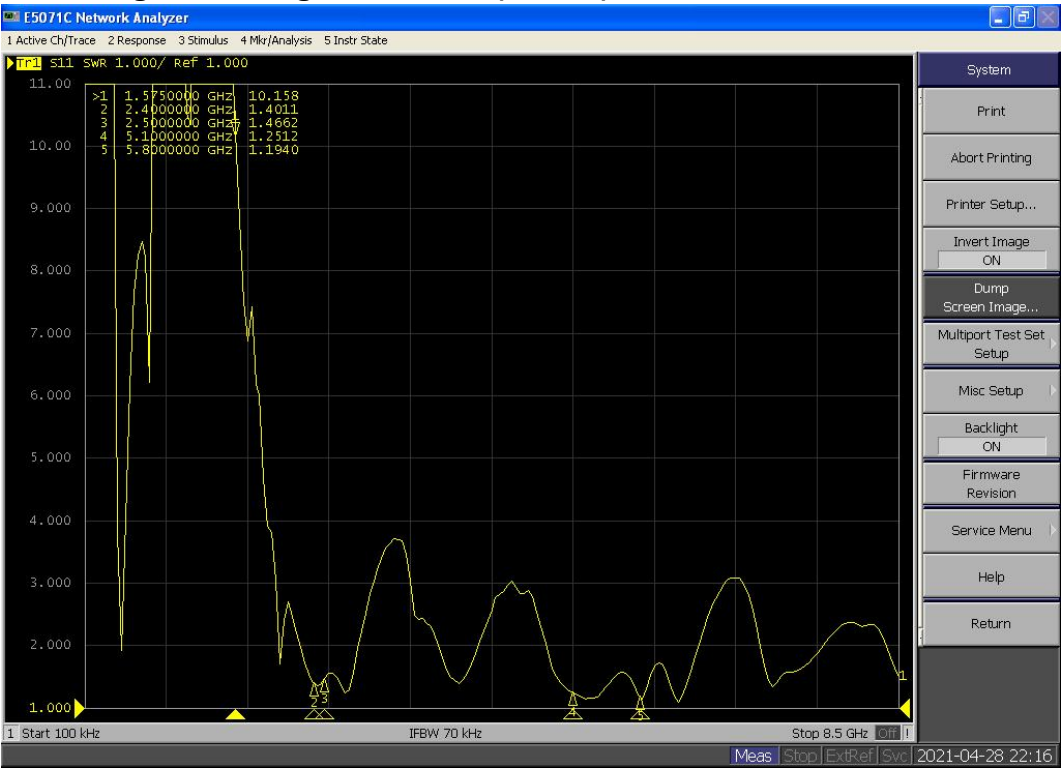


Chart 2 VSWR

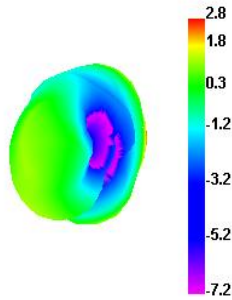
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test	Effi(%)	42.92	48.42	45.89	49.73	45.98	49.52	47.16	50.01	43.90	43.55	41.54
	Gain(dBi)	1.67	1.75	1.75	1.84	2.00	2.00	2.00	2.00	1.72	1.94	1.23

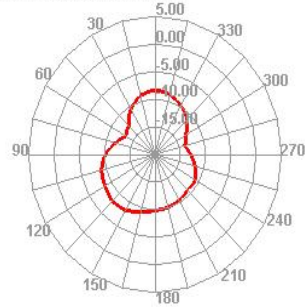
Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test WIFI	Effi(%)	51.22	53.19	50.84	54.64	52.43	54.77	57.28	52.72	54.71	50.55	55.99	51.51	53.22	57.32	51.92
	Gain(dBi)	3.94	2.00	1.85	1.89	2.00	1.97	2.68	1.36	1.23	1.15	1.35	1.11	2.00	1.84	1.94

5.3 Radiation pattern.

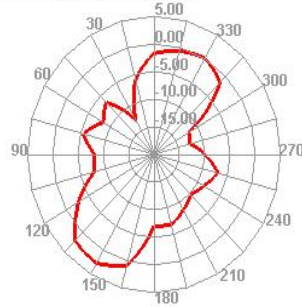
2400.000MHz



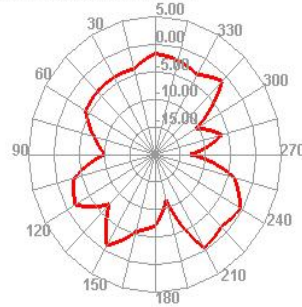
2400.000MHz H



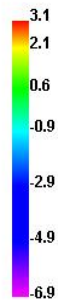
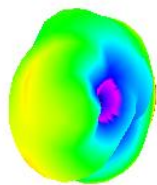
2400.000MHz E1



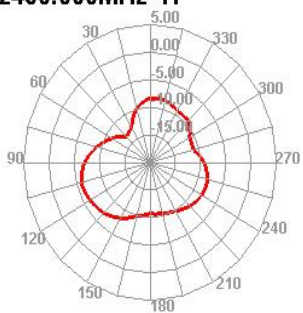
2400.000MHz E2



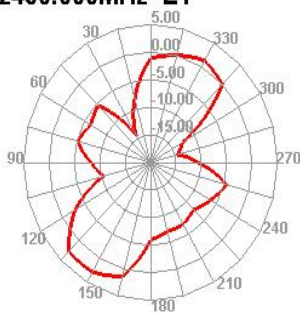
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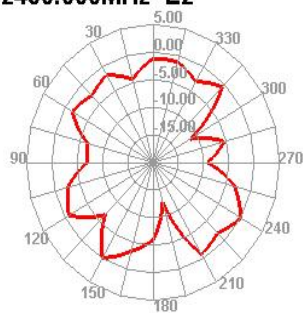
2450.000MHz H



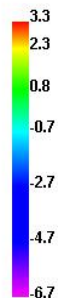
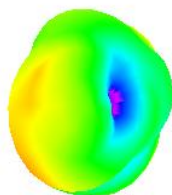
2450.000MHz E1



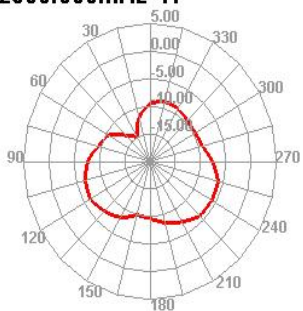
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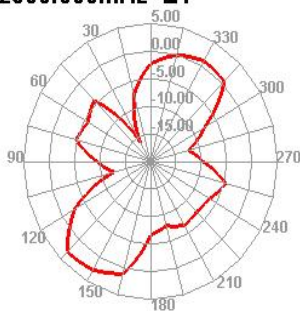
2500.000MHz



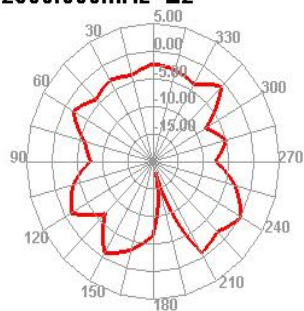
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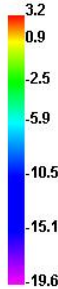
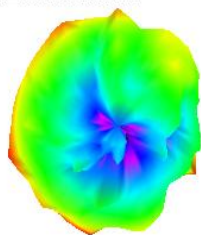
2500.000MHz E1



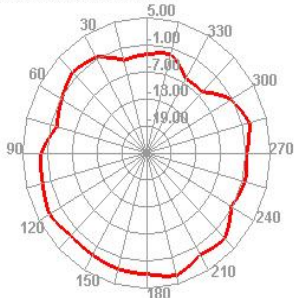
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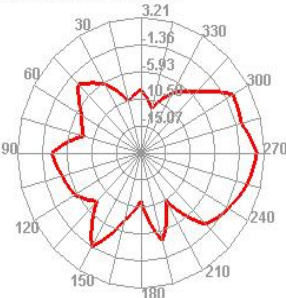
5200.000MHz



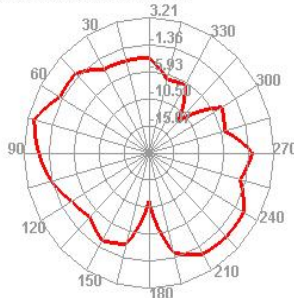
5200.000MHz H



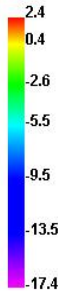
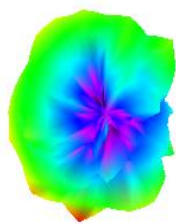
5200.000MHz E1



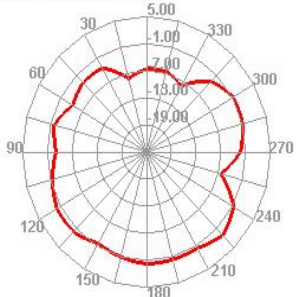
5200.000MHz E2



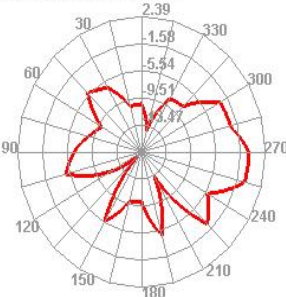
5550.000MHz



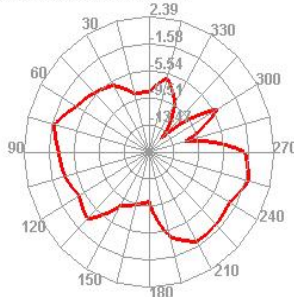
5550.000MHz H



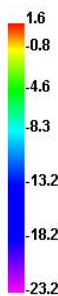
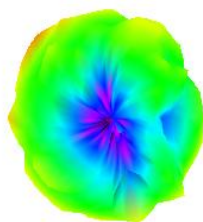
5550.000MHz E1



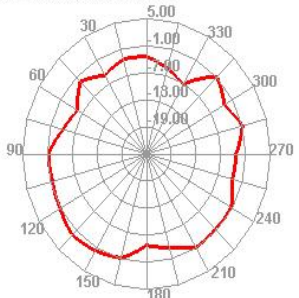
5550.000MHz E2



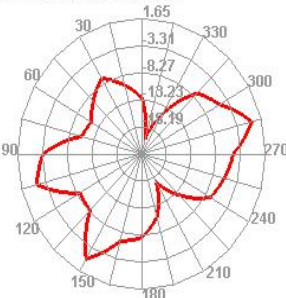
6000.000MHz



6000.000MHz H



6000.000MHz E1



6000.000MHz E2

