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WIFI antenna Specification sheet

Client: Hesung Innovation Limited		
frequency band : WIFI/2.4G	DATE: 2025.4.21	versions: R:A1
Models: DR-HHM015S WIFI antenna		

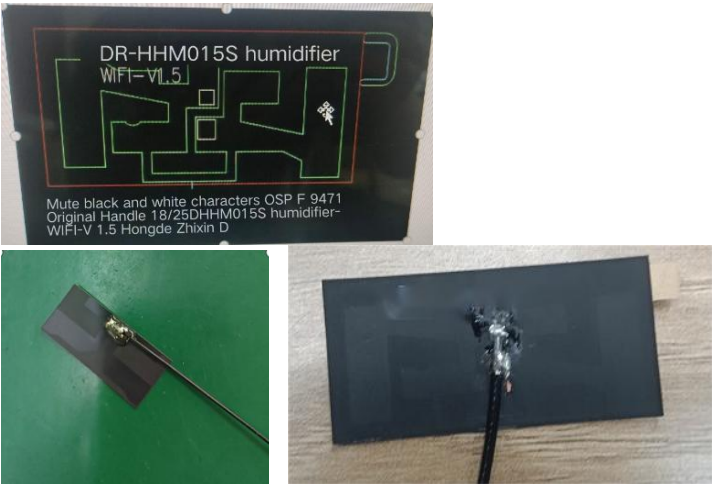
制作 DRADWN	品管 Q.C.DEPT	结构 FAE	检测 TESTED BY	核准 APPROVED BY
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客户 CUSTOMER	客户品管 CUSTOMER Q.C.DEPT	客户结构 CUSTOMER FAE	客户检测 CUSTOMER TESTED BY	客户审核 CUSTOMER APPROVED BY

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一：Project picture 产品图片

DR-HHM015S 加湿器 WIFI-V1.5 天线 黑色线 L=160MM 1代端子焊盘位点 UV 胶
DR-HHM015S humidifier WIFI-V 1.5 Antenna black line L=160MM Gen 1 Terminal Pad Site UV
Adhesive
Size: 34.5 * 17mm



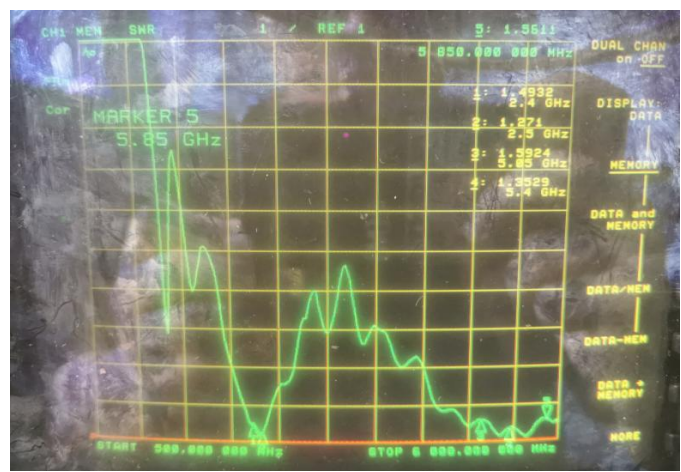
二：Product parameter:产品参数

2、Electrical Characteristics			
2.1 Electric parameter 电气参数			
1	Method of polarization 极化方式	线极化 Linear Polarization	
2	Frequency 频率	WIFI: 2412MHz~2462MHz BLUE: 2402MHz~2480MHz	
3	S.W.R 驻波比	≤2.0/≤2.0	
4	Bandwidth 带宽	100MHZ/800MHZ	
5	Impedance 阻抗	50 ohm	
6	Peak Gain 最大增益	2.1dbi	
7	Power capacity 功率容量	50W	
8	Radiation direction 辐射方向	Omnibearing 全向	
9	Antenna type	PIFA	
2.2 Mechanical parameter 机械参数			
Size 尺寸	34.5*17*0.15mm	Antenna colour 天线颜色	Black
Connector 连接器	1.12 黑色线材一代 IPEX 焊接	Lead length 引线长度	160±2mm
OperationTemperature 工作温度	-40℃--+85℃	Storage Temperature 存放温度	-40℃--+85℃

三：Passive date 无源参数

VSWR:

频率 (MHZ)	2400	2500	5050	5850
驻波 Standing wave	1.49	1.27	1.59	1.56



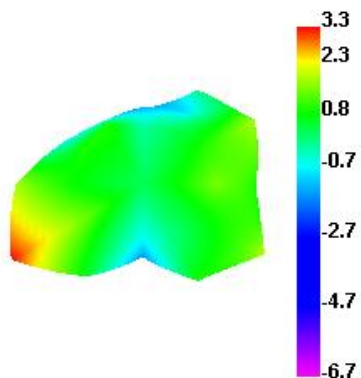
Efficiency and Gain:

BAND	WIFI/BT		
Freq.[MHZ]	2400	2450	2500
Eff.[%]	53.58	54.48	54.78
Peak Gain [dBi]	2.1	1.8	2.0

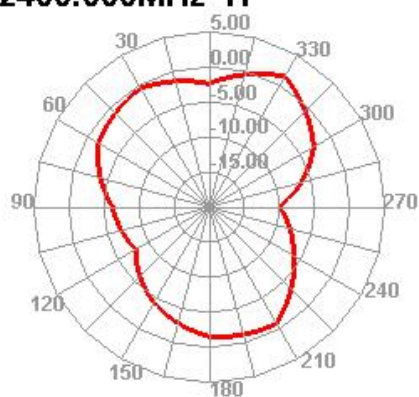
天线有源测试报告 Antenna Active Test Report

Test	802.11B, Wifi 2.4G 11M		
Result	12	6	1
Frequency (MHz)	2467	2437	2412
TRP (dBm)	17.3	17.45	15.87
TIS (dBm)	-84.98	-85.68	-86.33

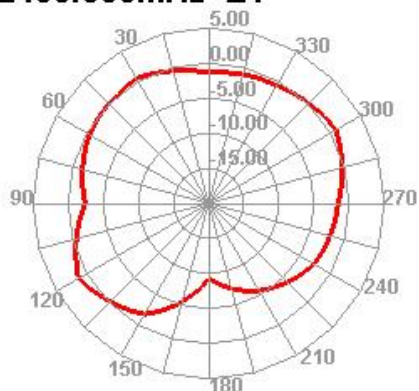
2400.000MHz



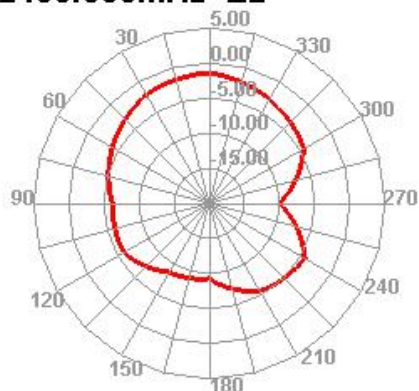
2400.000MHz H



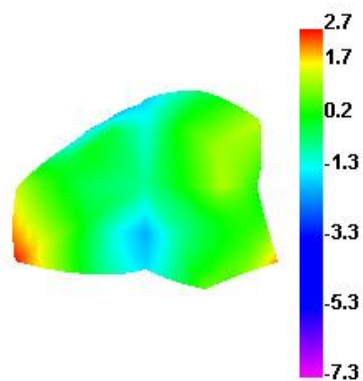
2400.000MHz E1



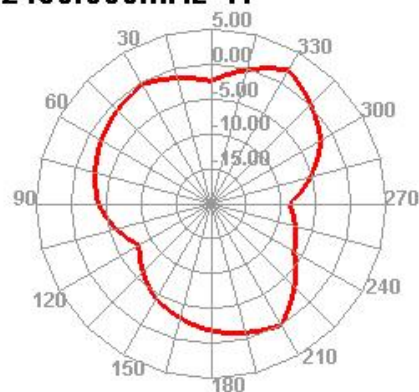
2400.000MHz E2



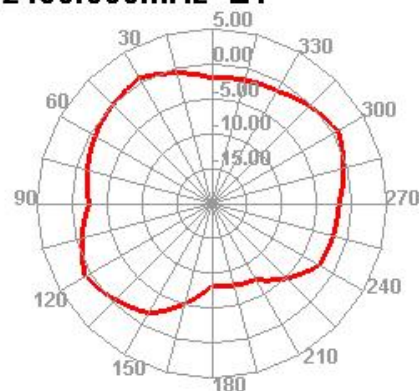
2450.000MHz



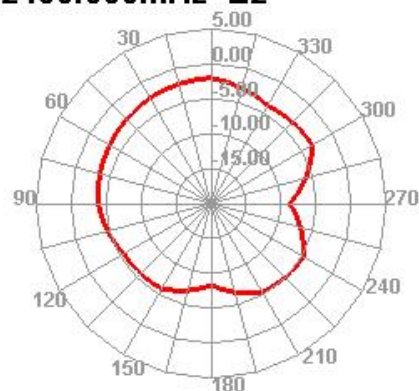
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



四： Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification符合待测物规范	PASS
2	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification符合待测物规范	PASS
3	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.检查尺寸,颜色,材料,包装,表面处理	Directive DUT specification符合待测物规范	PASS
4	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU符合 RoHS 2015/863/EU 标准	PASS

五： Antenna position 天线位置：

