# 产品规格概述

## ●Electrical Performance:

1. Frepuency Range: 2.4~2.5G&5.15~5.825GHz
2. Lmpedance: 50 Ohms nominal
3. VSWR：＜3.0
4. Gain: 2dBi
5. Admitted power radlation: 1W
6. Radation of Radlation: Toroidal
7. Radiation: Omni
8. Polarization: Vertical
9. Connctor Type: MHF4L

## ●Mechanical properties:

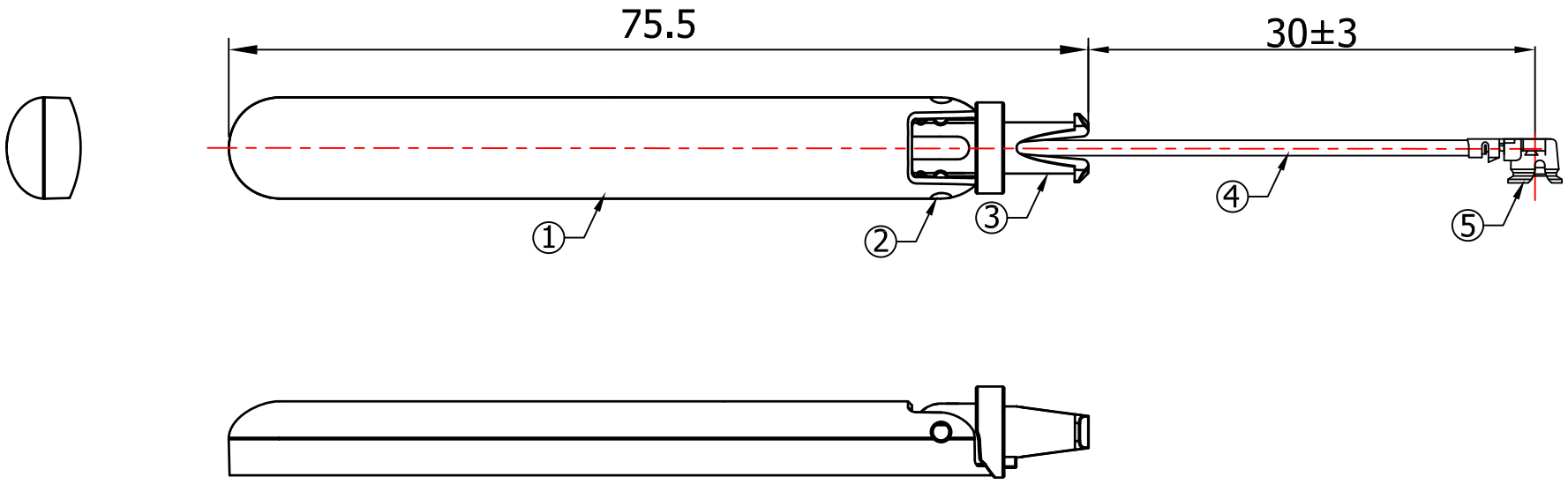
1. Cable: MI-113 Cable Black,50 Ohm
2. Operation temperature range: -20℃~+70℃
3. Storage temperature range：-20℃~+80℃
4. Color: Black

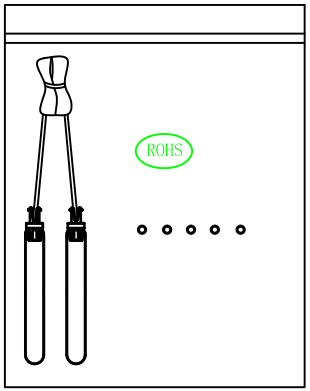
中国深圳 宝安区福永镇和平村骏丰工业区 A4 栋 4F
Tel : 0755-61500378 379 380 Fax : 0755-61500386

# 成品图

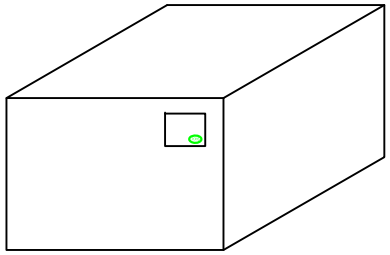
ROHS

| REV. | 修 订 内 容 | 修 订 时 间 |
|---|---|---|
| X1 | 新 版 发 行 | 2020.04.02 |




20PCS/Bundle
Pack:100PCS/PE Bag



1.外箱需贴1PCS/ROHS标签于外箱标签上
2.外箱需贴1PCS/外箱标 签于外箱侧麦右上角

Specification:
Frequency Rang:2.4~2.5GHz/5.15~5.825GHz
Impedance:50Ω
Return Loss:-6dB or less
VSWR:＜3.0

| NO. | DESCRIPTION | Q'TY | REMARK |
|---|---|---|---|
| 5 | Connector | MHF4L Plug for Φ1.13 Cable | 1 | |
| 4 | Cable | MI-113 Cable,Black,50Ω | 1 | |
| 3 | Rivet | PBT+PC,Color:Black | 2 | |
| 2 | Bottom Base | ABS,Color:Black | 1 | |
| 1 | Antenna Cap | ABS,Color:Black | 1 | |

| | | | |
|---|---|---|---|
| TITLE: | 2.4/5G Antenna | 深圳市华德昌科技有限公司 ShenZhen HuaDeChang Technology Co., Ltd | |
| P/N: | | | |
| CUSTOMER: | HDC-294 | | |
| DRAW NO.: | H294-10001 | | |
| DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED | | APPROVED | |
| 一般公差 TOLERANCE | .XXX ±0.05 / .XX ±0.1 / .X ±0.2 / X. ±0.5 / XX. ±1.0 | CHECKED | |
| SHEET:1/1 | SCALE:NONE | DRAWED | Wu Lianpeng |
| UNIT: mm | REV.X1 | | |

# 华德昌科技有限公司

## 网络分析仪测试图

料号： H294-10001
品名规格:双频 2dBi ANTENNA(Black)
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/5.15~5.825GHz |
| S.W.R | ＜3.0 |
| 天线增益 | 2.0dBi |
| 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：<br>1.温度为-20℃～+80℃<br>2.相对湿度为45%-85%<br>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<br>2.9(nominal)　2.0GHz<br>3.2(nominal)　2.4GHz<br>3.7(nominal)　3.0GHz<br>4.3(nominal)　4.0GHz<br>4.8(nominal)　5.0GHz<br>5.3(nominal)　6.0GHz | 3.3dB/m (at20℃) |

# 5.Test Report

## 5.1 Voltage Standing Wave Ratio(VSWR).

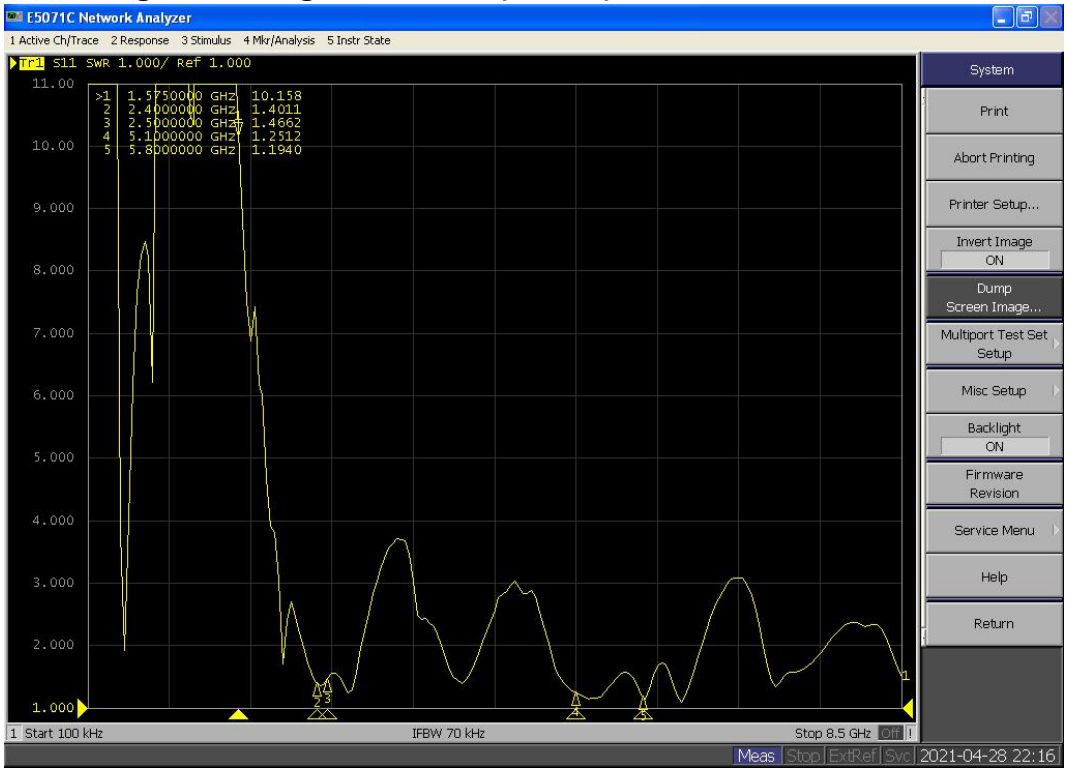


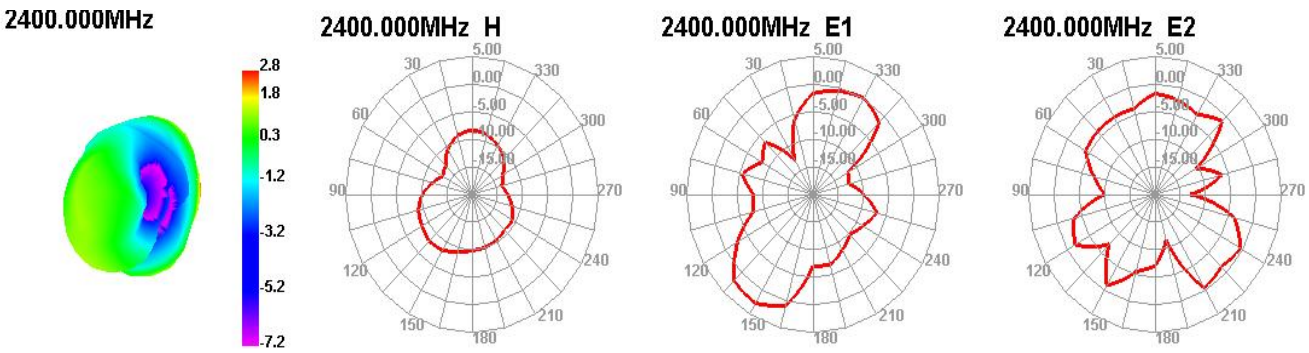

Chart 2 VSWR

## 5.2 Efficient and gain.

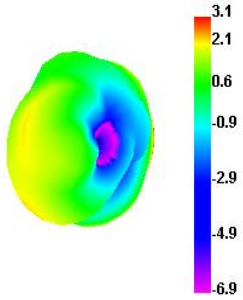
| Passive Test 2.4GHz | Freq(MHz) | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Effi(%) | 42.92 | 48.42 | 45.89 | 49.73 | 45.98 | 49.52 | 47.16 | 50.01 | 43.90 | 43.55 | 41.54 |
| | Gain(dBi) | 1.67 | 1.75 | 1.75 | 1.84 | 2.00 | 2.00 | 2.00 | 2.00 | 1.72 | 1.94 | 1.23 |

| Passive Test WIFI 5G | Freq(MHz) | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 | 5700 | 5750 | 5800 | 5850 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |

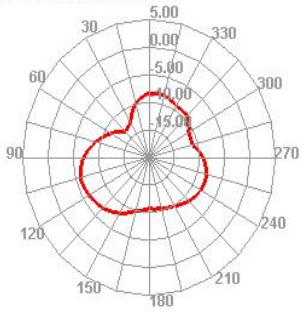
## 5.3 Radiation pattern.



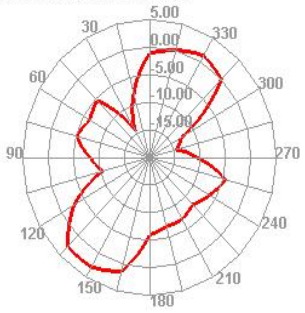
2450.000MHz



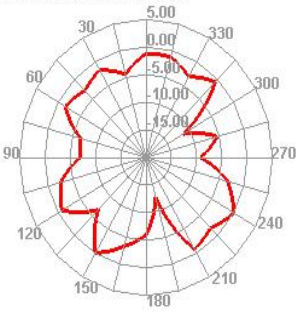

2450.000MHz H



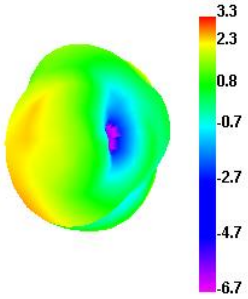
2450.000MHz E1



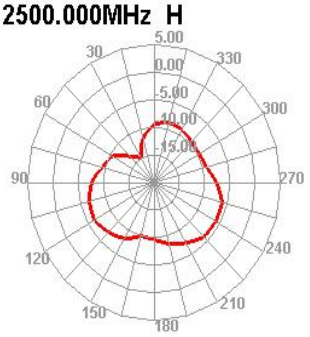
2450.000MHz E2



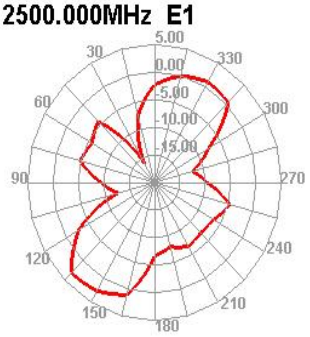
2500.000MHz



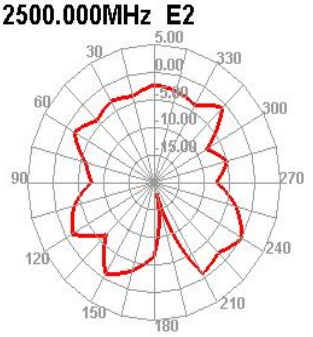

2500.000MHz H



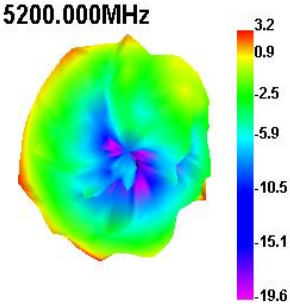
2500.000MHz E1



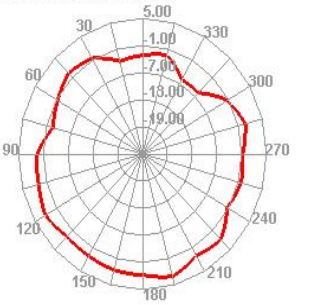
2500.000MHz E2



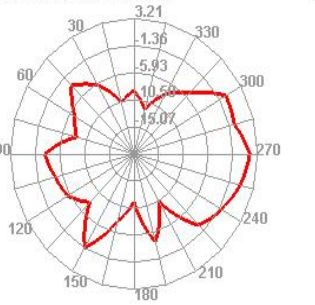
5200.000MHz



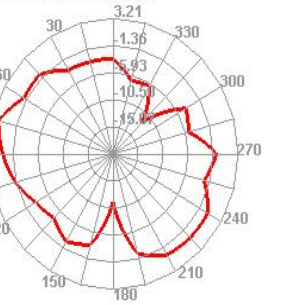

5200.000MHz H



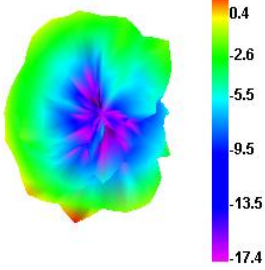
5200.000MHz E1



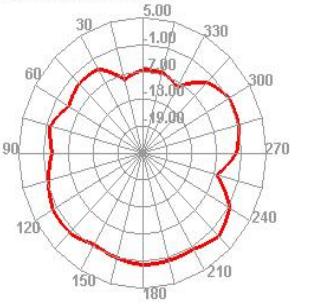
5200.000MHz E2



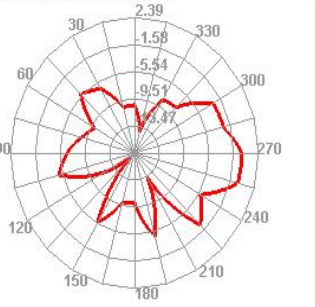
5550.000MHz



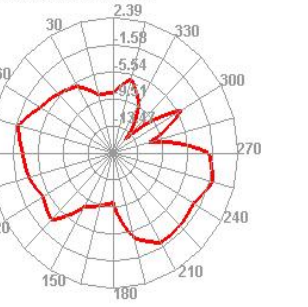

5550.000MHz H



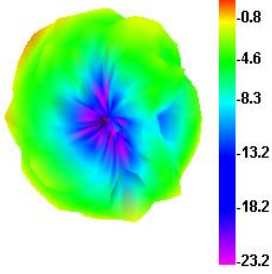
5550.000MHz E1



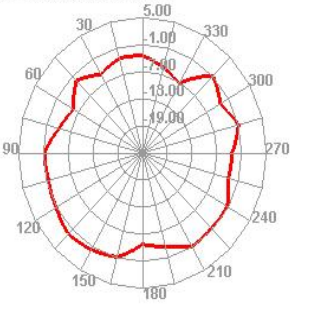
5550.000MHz E2



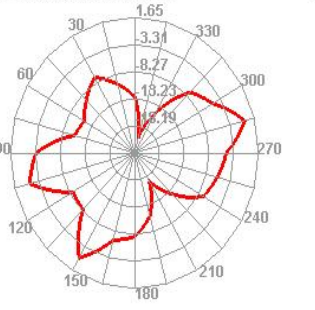
6000.000MHz




6000.000MHz H



6000.000MHz E1



6000.000MHz E2