

天线规格书

Product Specification

T20 WIFI 天线

T20 WIFI antenna

批准APPROVED BY	签名 SIGNATURE	日期 DATE
结构 Mechanical Engineer:	ZHOU 周	2024-02-28
射频 RF Engineer:	LI 李	2024-02-28
工程经理 Engineering Manager:	LIU 刘	2024-02-28
客户 Approved By Customer (as required):		

1.0 产品描述及产品号 DESCRIPTIONS AND PART NUMBER:**1.1 产品描述 DESCRIPTION:**

此天线安装在设备后壳上面，以 FPC 背胶的形式贴在壳体上，天线用同轴线端子扣在主板板端上面 The coaxial terminal of the antenna is buvklod on the end of the min board.

1.2 产品号 PART NUMBER

产品号 Part number	频段 Frequency Band	HH Part Number
HT297	2.4/5GHZ	

2.0 频率 FREQUENCY BAND

2. 4/5GHZ

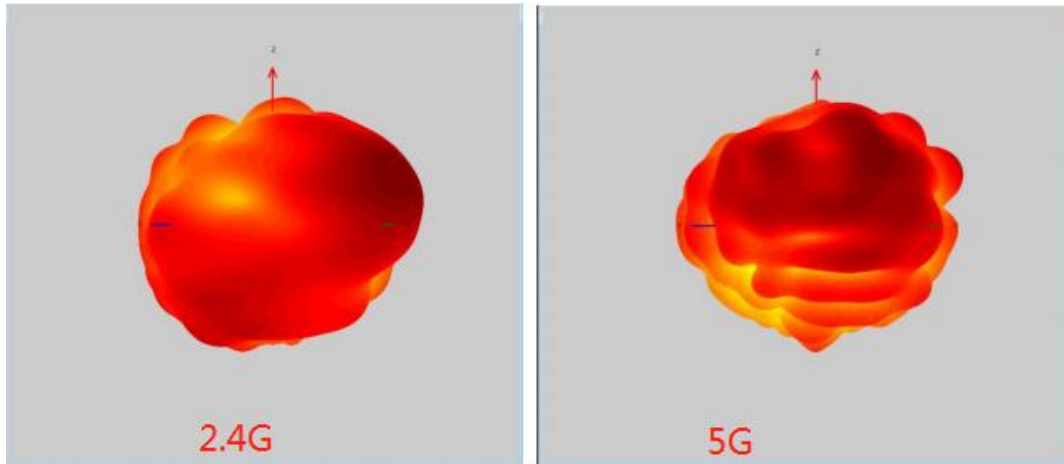
2.1 ACTIVE TEST REPORT 测试报告

Gain&Efficiency 增益和效率			
frequency 频率(Hz)	gain 增益(dB)	efficiency 效率(dB)	efficiency 效率
2400M	1.75	-3.85	41.18%
2410M	1.4	-3.93	40.44%
2420M	0.93	-4.01	39.74%
2430M	0.64	-4.15	38.44%
2440M	0.66	-4.27	37.38%
2450M	0.98	-4.11	38.82%
2460M	0.94	-4.23	37.73%
2470M	0.95	-4.3	37.15%
2480M	0.92	-4.27	37.43%
2490M	0.83	-4.28	37.34%
2500M	0.79	-4.3	37.19%

Gain&Efficiency 增益和效率			
frequency 频率(Hz)	gain 增益(dB)	efficiency 效率(dB)	efficiency 效率
5000M	2.36	-4.82	32.93%
5100M	2.16	-5.12	30.74%
5200M	2.58	-5.02	31.48%
5300M	3.11	-4.59	34.74%
5400M	3.32	-4.72	33.74%
5500M	2.98	-5	31.61%
5600M	2.7	-4.57	34.94%
5700M	2.2	-4.02	39.61%
5800M	2.63	-3.57	43.95%
5900M	2.94	-3.54	44.26%
6000M	3.02	-3.53	44.38%

Actual test wifi 8-10 meter ,实际测试 WiFi 8-10 米。

方向图如下 Pattern is as follows



天线位置如图 Antenna position is shown in the figure below (环境没有另外处理 Environment not Otherwise treated)



3.0 机械参数 MECHANICAL SPECIFICATIONS:

3.1 机械构造 MECHANICAL CONFIGURATION

天线外观符合图纸 The appearance of the antenna is in accordance with drawing HT297

4.0 环境参数 ENVIRONMENTAL SPECIFICATIONS

4.1 温度 TEMPERATURE

工作温度范围 Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

保存温度范围 Storage Temperature Range: $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$

4.2 盐雾测试 SALT SPRAY TEST

天线暴露在 35 摄氏度，5% 的盐雾室保持 24 小时，然后再对比常态检查外观和性能。Antenna be exposed in a 35°C, 5% salt fog chamber for 24 hours then check the appearance and performance against the specifications in normal temperature.

4.3 静态湿度测试 STATIC HUMIDITY TEST

天线满足以下测试 The antenna is subjected to the following test:

温度 Temperatures: +70°C and 90%--95%RH

测试时间 Test Duration: 24 Hours

天线不应再结构和功能上有任何变化，保持电气和机械参数。The antenna should not undergo any structural or functional change and remain within the electrical/mechanical specification.

5.0 包装 **PACKAGING**

天线用包装袋装好，每个袋子装 50 或 100 个天线。袋子装在瓦楞纸包转箱里。The antennas will be packed in bags, There are 50 or 100 antennas per bag. The bags are packed in corrugated fibreboard over box.

6.0 天线图纸 Antenna drawing:

