

# 蓝牙天线规格书

## BT Antenna Product Approval

时间：2022.11.18

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| Manufacturer:            | Shenzhen Hutianmei Technology Co.,Ltd                                                    |
| Address of Manufacturer: | 32 Building, The third Industrial Park, Houting Shajing, Baoan District, Shenzhen, China |

### 一、天线简介

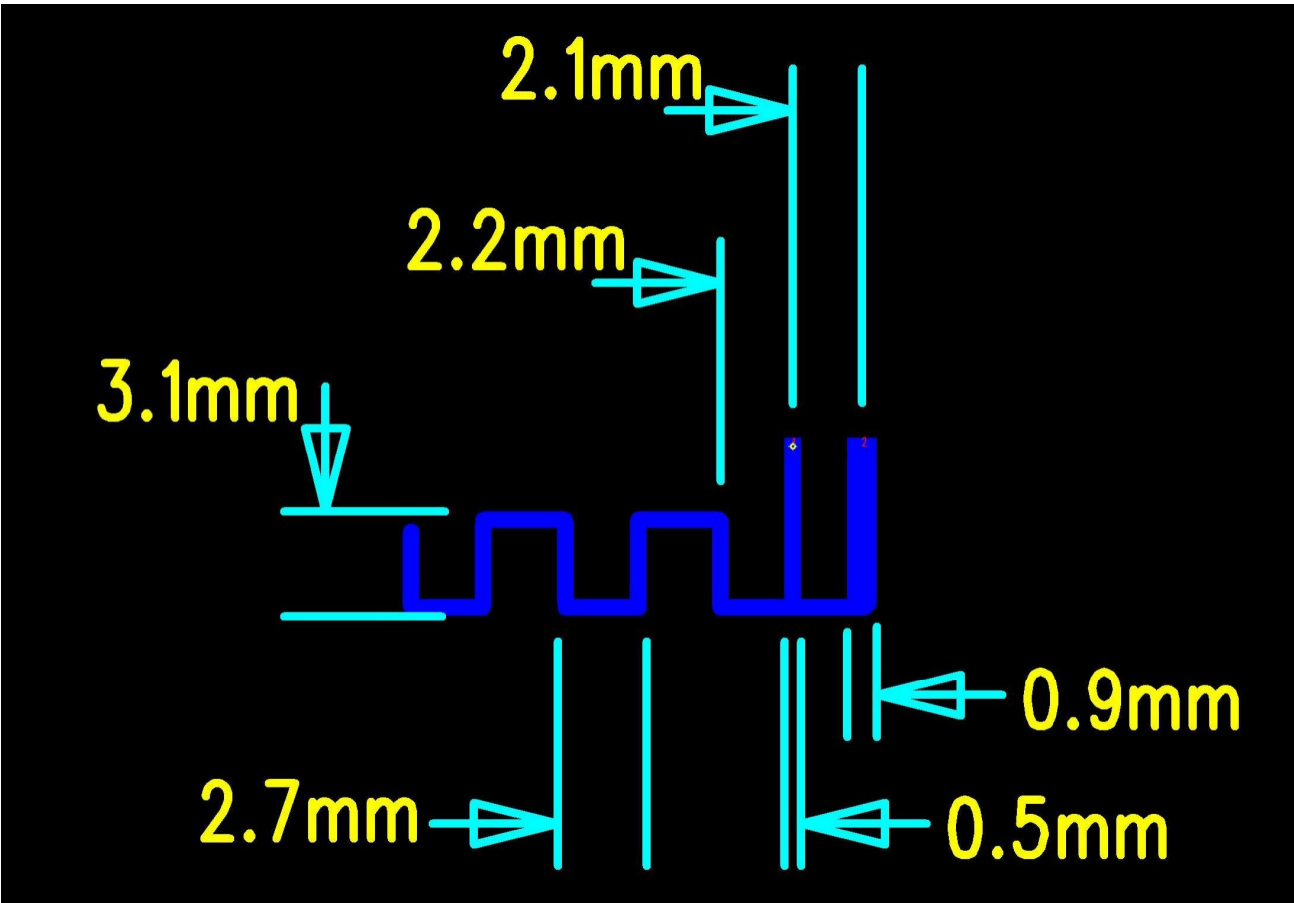
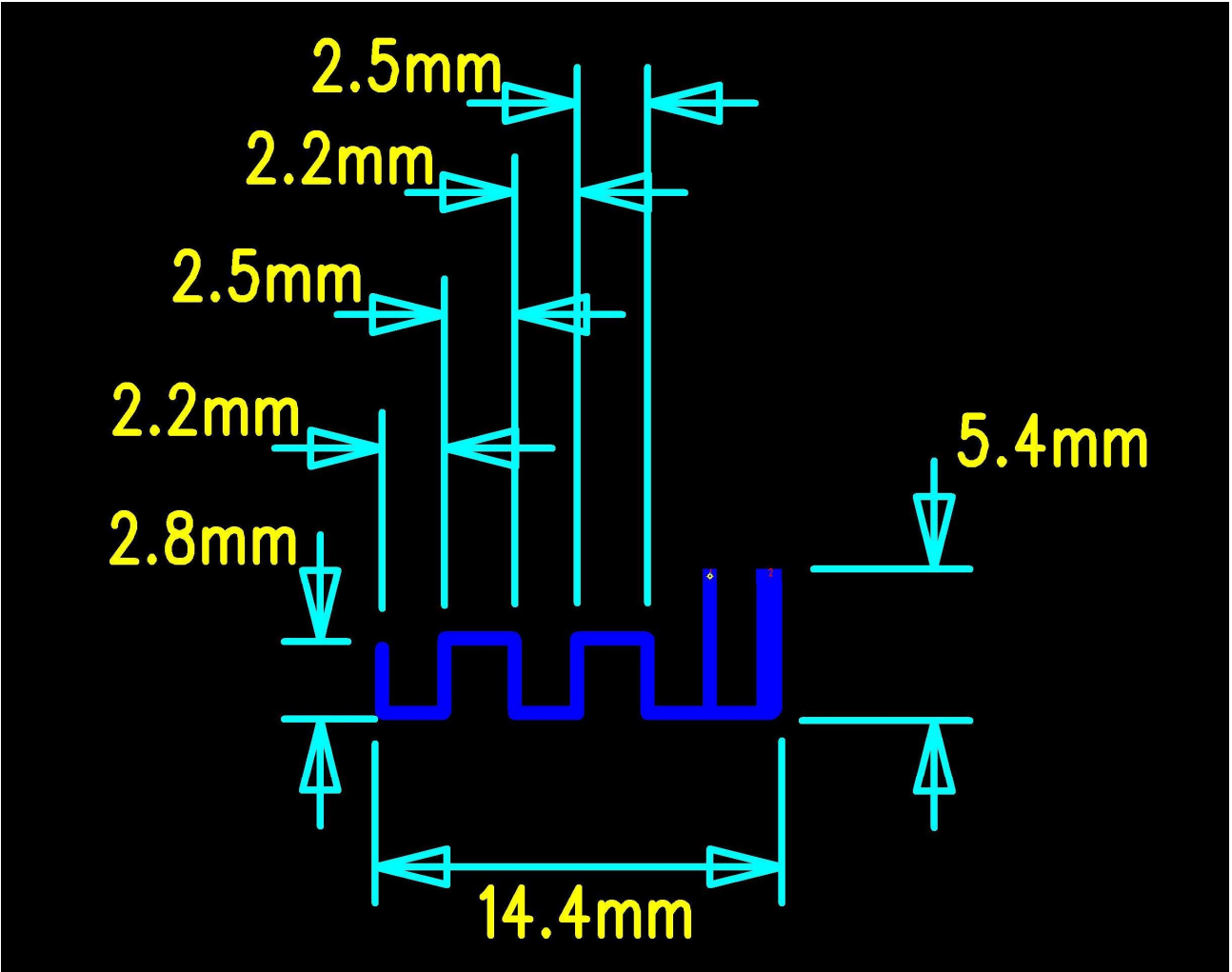
我司蓝牙天线直接采用做在 PCB 板上的板载方式，天线为铜箔加喷锡工艺，铜箔厚度：1OZ，板材为 FR-4 厚度 1.6mm 材料

### 二、天线外形

#### 1、实物图



2、尺寸图：14.5mm \* 5.4mm



三、天线参数

蓝牙工作频率在 2402-2480MHz，在此频段产生谐振。

下表为天线的主要参数：

| 蓝牙内置天线          |                  |
|-----------------|------------------|
| Frequency (MHz) | 2402 ~ 2500 MHz  |
| VSWR            | ≤ 1.92           |
| Impedance       | 50 Ohm Nominal   |
| Return Loss     | -10 dB Max       |
| Radiation       | Omni-directional |
| Gain (Peak)     | 0.51 dBi         |
| Polarization    | Linear, Vertical |
| Admitted Power  | 2W               |
| Connector       | Tin              |

四、天线增益检测报告

Spectrum Detector: PK

Test Date : June 8, 2013

Test By: Andy

Temperature : 28°C

Test Result: PASS

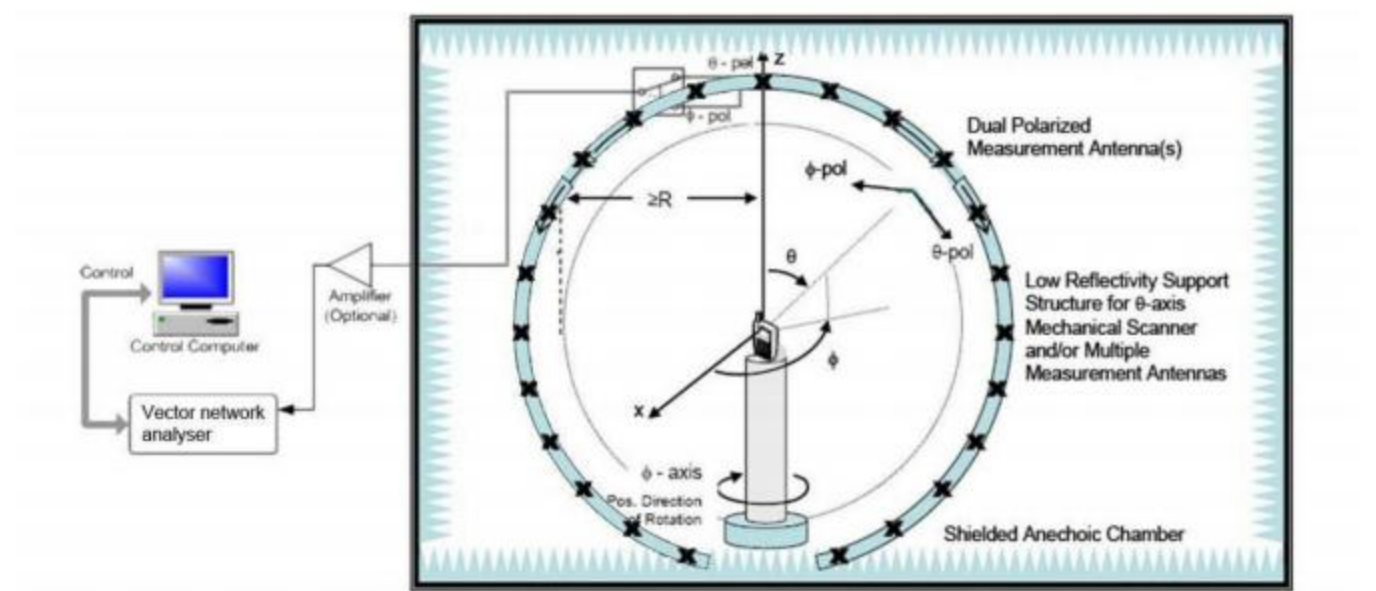
Humidity : 55 %

Modulation: GFSK

最大增益值:

| Frequency VNA : (MHz) | E Total. dBi |
|-----------------------|--------------|
| 2400MHz               | -0.41        |
| 2410MHz               | -0.18        |
| 2420MHz               | 0.34         |
| 2430MHz               | 0.51         |
| 2440MHz               | 0.38         |
| 2450MHz               | -0.01        |
| 2460MHz               | -0.06        |
| 2470MHz               | -0.42        |
| 2480MHz               | -0.74        |
| 2490MHz               | -0.85        |
| 2500MHz               | -1.13        |
|                       |              |

五、Test Setup:



## 六、2D Radiation Pattern

