

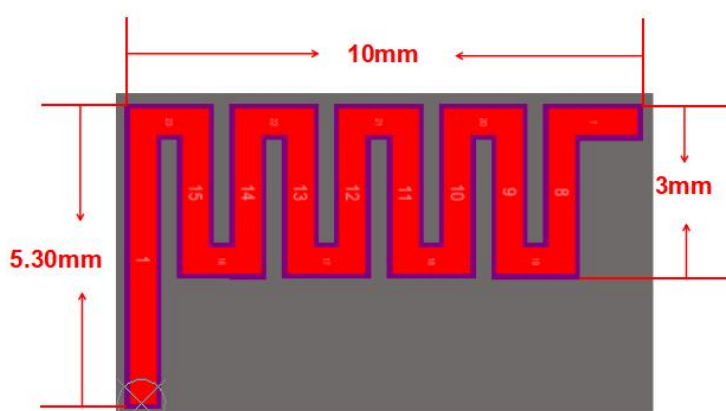
Antenna Specification

1. 天线简介 Introduction of antenna

蓝牙模块天线直接采用做在 PCB 板上的方式。

The antenna of bluetooth module is directly made on PCB board.

2. 天线外形和尺寸 Antenna Shape and size



3. 天线参数 Antenna parameters

蓝牙天线工作频率在 2400-2480MHz ,在此频段产生谐振。

下表为天线的主要参数。The Bluetooth antenna operates at 2402-2480MHz and resonates in this band.The following table shows the main parameters of the antenna.

Frequency(MHz)	2402~2480MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional

Gain	0.22dBi
Polarization	Linear,Vertical
Admitted Power	2w
Connector	Tin
Antenna type	PCB antenna
Manufacturer	Shenzhen LightWind Technology Co., LTD
Address	Room 24J, Qinghai Tower, No.7043, BeiHuan Road, Futian, Shenzhen, Guangdong, China

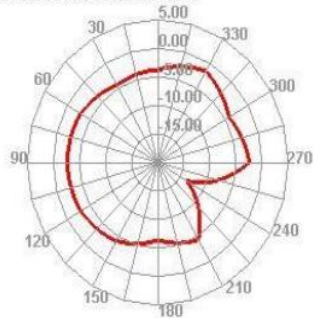
4. 增益和效率 gain and efficiency

Frequency	Gain(dBi)	Efficiency(%)
2400MHz	0.16	35
2410MHz	0.19	35
2420MHz	0.12	35
2430MHz	0.22	35
2440MHz	-0.22	35
2450MHz	-0.09	35
2460MHz	-0.59	35
2470MHz	-0.19	35
2480MHz	-0.69	35

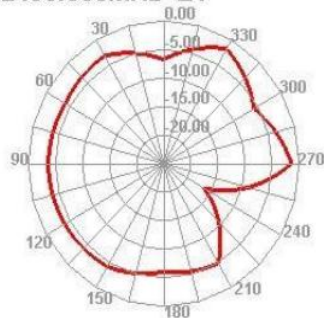
5. 天线性能测试 Antenna Performance Test

B.1 Pattern

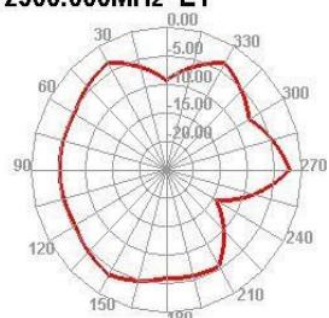
2400.000MHz E1



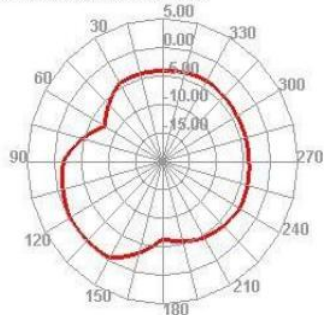
2450.000MHz E1



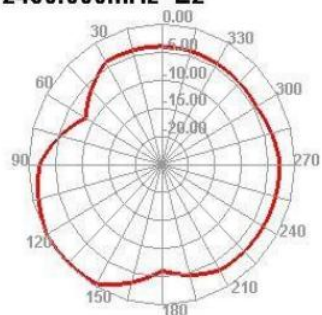
2500.000MHz E1



2400.000MHz E2



2450.000MHz E2



2500.000MHz E2

