

蓝牙天线规格书

BT Antenna Product Approval

时间：2022.11.18

Manufacturer: Shenzhen Lenodell Technology Co., Ltd.

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1. Antenna Introduction

一、天线简介

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

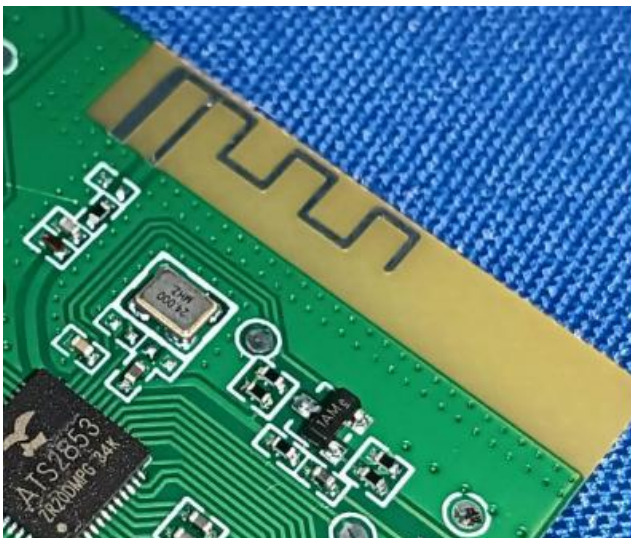
The Bluetooth antenna is directly mounted on the PCB board. The antenna is made of copper foil and tin-spraying process. The copper foil thickness is 1OZ, and the board material is FR-4 with a thickness of 1.6mm.

2. Antenna shape

二、天线外形

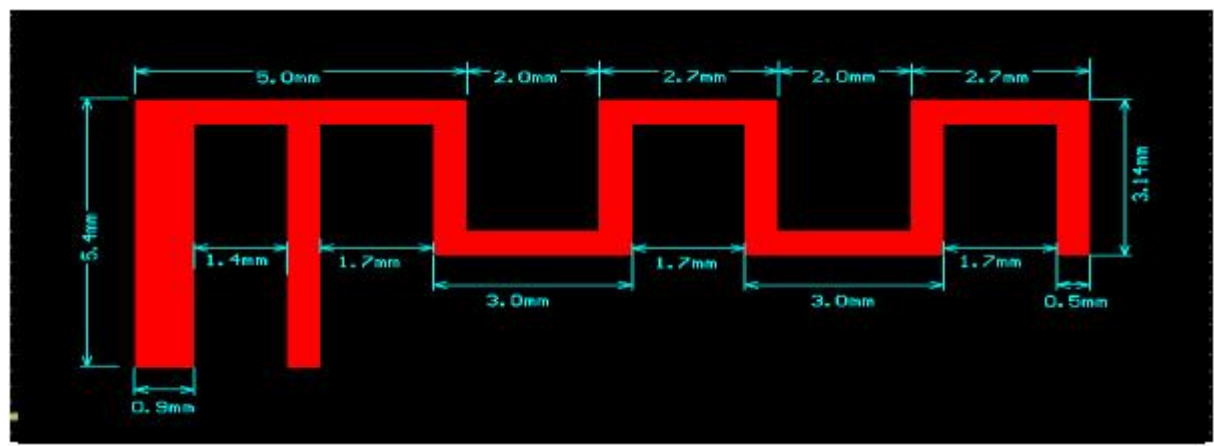
1. Physical picture

1、实物图



2、尺寸图：14.5mm * 5.4mm

2. Dimensions



3. Antenna parameters

三、天线参数

蓝牙工作频率在 2402-2480MHz，在此频段产生谐振。

The operating frequency of Bluetooth is 2402-2480MHz, and resonance occurs in this frequency band.

下表为天线的主要参数: The following table shows the main parameters of the antenna:

蓝牙内置天线 Bluetooth built-in antenna	
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

4. Antenna gain test report

四、天线增益检测报告

Spectrum Detector: PKTest Date : June 8, 2013

Test By: AndyTemperature : 28℃

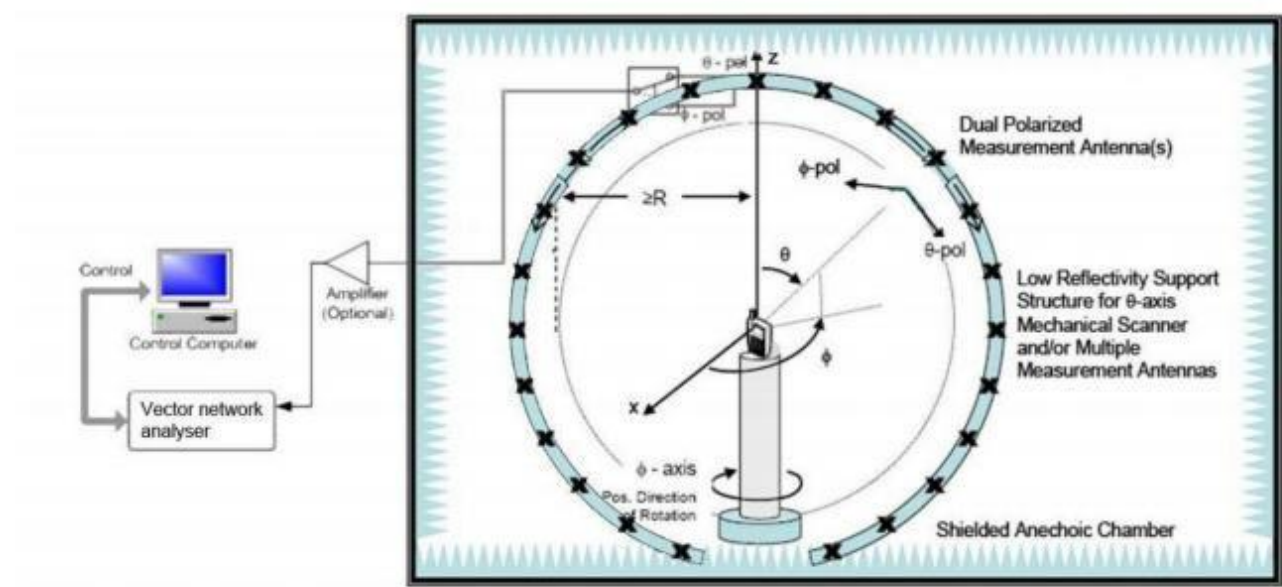
Test Result: PASSHumidity : 55 %

Modulation: GFSK

Maximum gain value:
最大增益值:

Frequency VNA : (MHz)	E Total. dB(dB)
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

