

# 蓝牙天线规格书

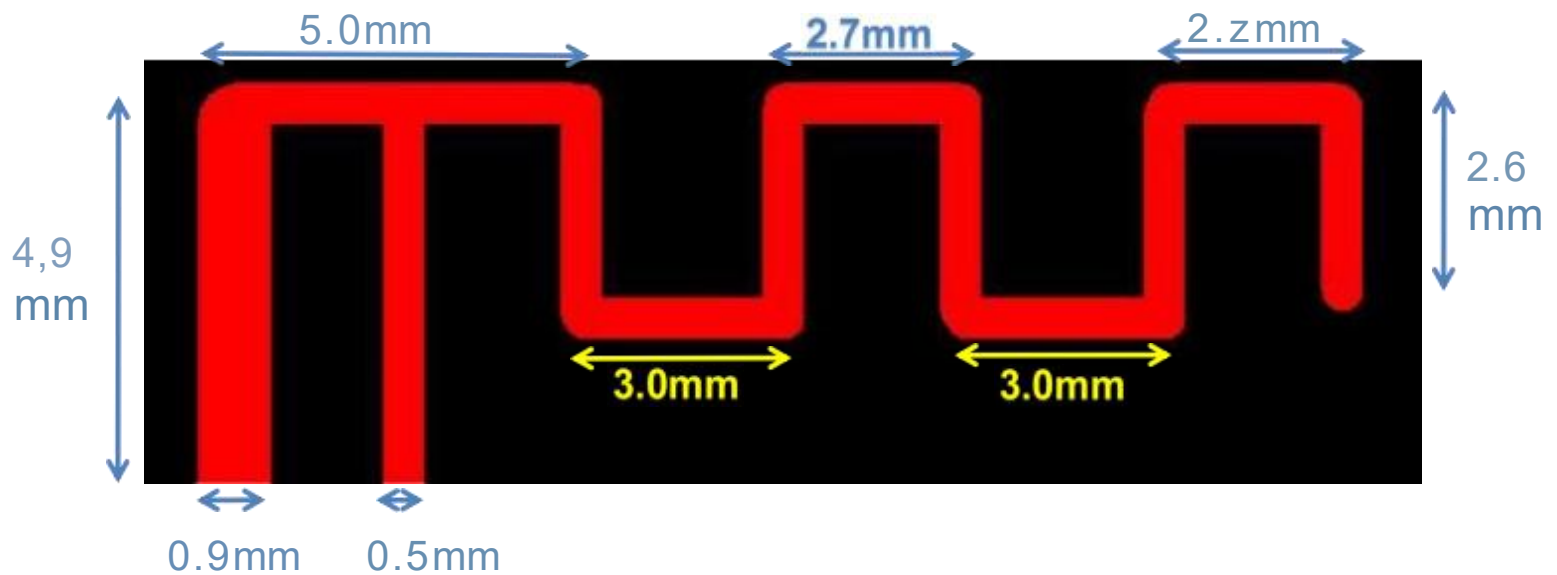
## Specification of Bluetooth antenna

### 一、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.

### 二、天线外形 Antenna Shape



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### 三、天线参数 Antenna parameters

蓝牙天线工作频率在2402-2480MHz，在此频段产生谐振。下表为天线的主要参数。The Bluetooth antenna operates at 2402-2480 MHz and resonates in this band. The following table shows the main parameters of the antenna.

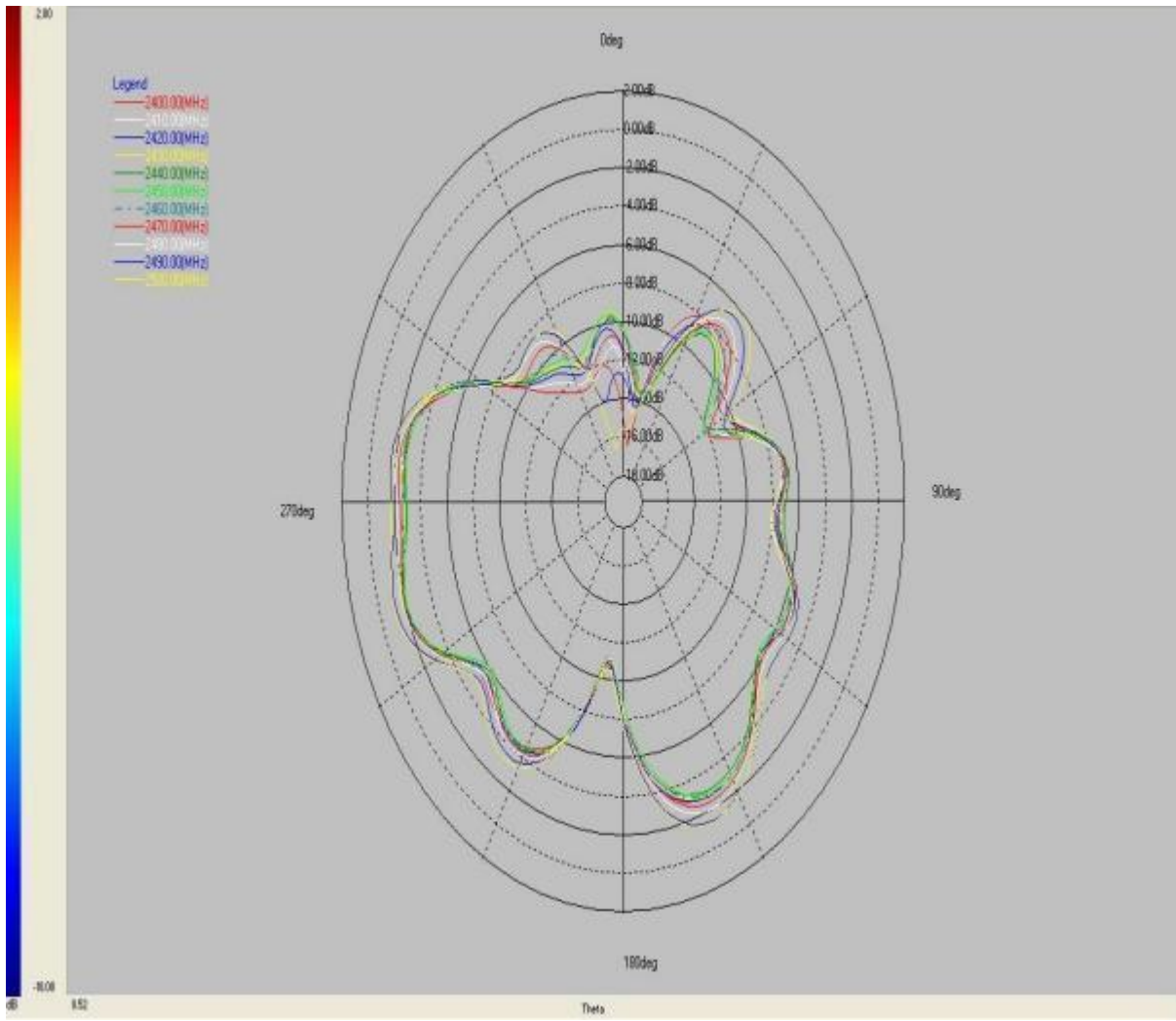
蓝牙内置天线 Bluetooth built-in antenna	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	$\leq 1.92$
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omn-directional
Gain (Peak)	1.08dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

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#### 四、天线增益检测报告 Antenna gain detection report

Spectrum Detector: PK Test Date : June 8, 2013  
Test By: Andy Temperature : 28°C  
Test Result: PASS Humidity : 55 %  
Modulation: GFSK

Frequency VNA (MHz)	E Total. dB (dB)
2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012
2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	1.05232
2500MHz	1.08443



PHI 90 度

PHI 90 °

