

蓝牙天线样品
BT Antenna Product Approval

时间 time: 2023-04-02

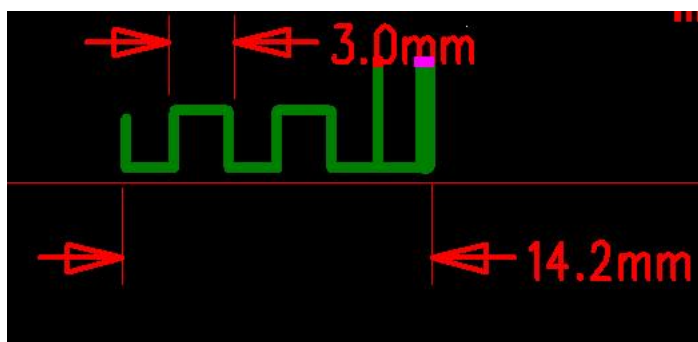
一、天线简介 Antenna Introduction

我司蓝牙天线直接采用做在 PCB 板上的方式,天线为铜泊加喷锡工艺,
铜箔厚度: H/HOZ, 板材为 FR-4 厚度 1.2mm 材料,。

Our Bluetooth antenna is directly made on the PCB board using copper foil and tin spraying technology.
The copper foil thickness is H/HOZ, and the board material is FR-4 with a thickness of 1.2mm

二、天线外形 Antenna appearance

1.尺寸图 Size chart : 14.2*3*0.5mm



2.实物图 physical object image:

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 working frequency of Bluetooth antenna is between 2402-2480MHz, where resonance occurs. 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	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional

Gain (Peak)	-0.347 dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin
Antenna Type:	PCB antenna

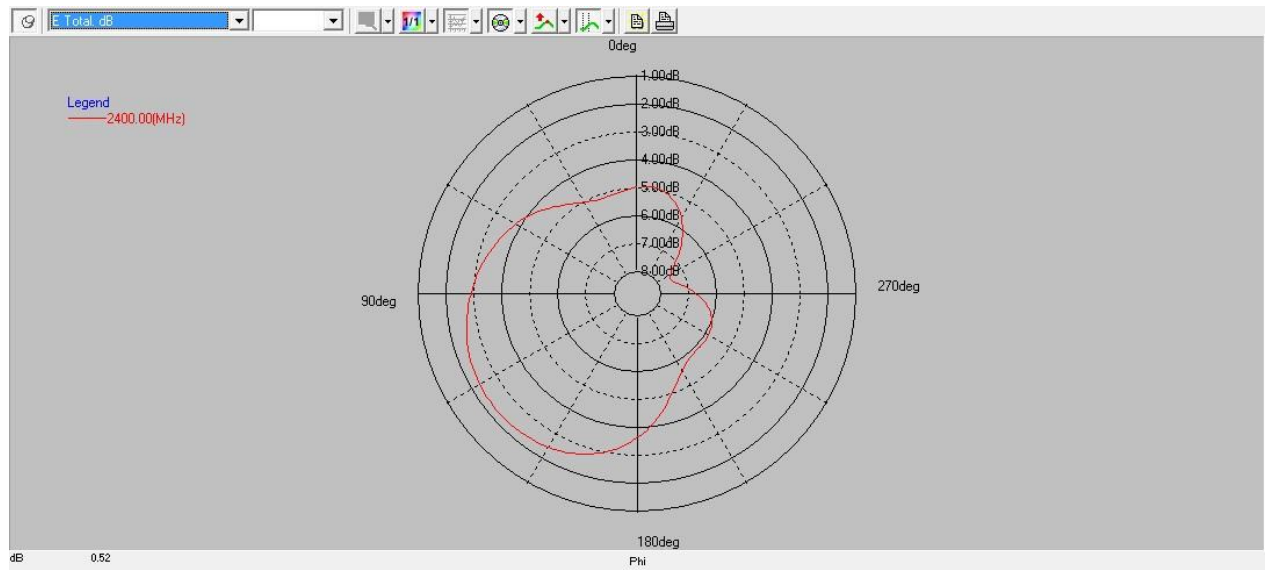
四、天线增益检测报告 Antenna gain detection report

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

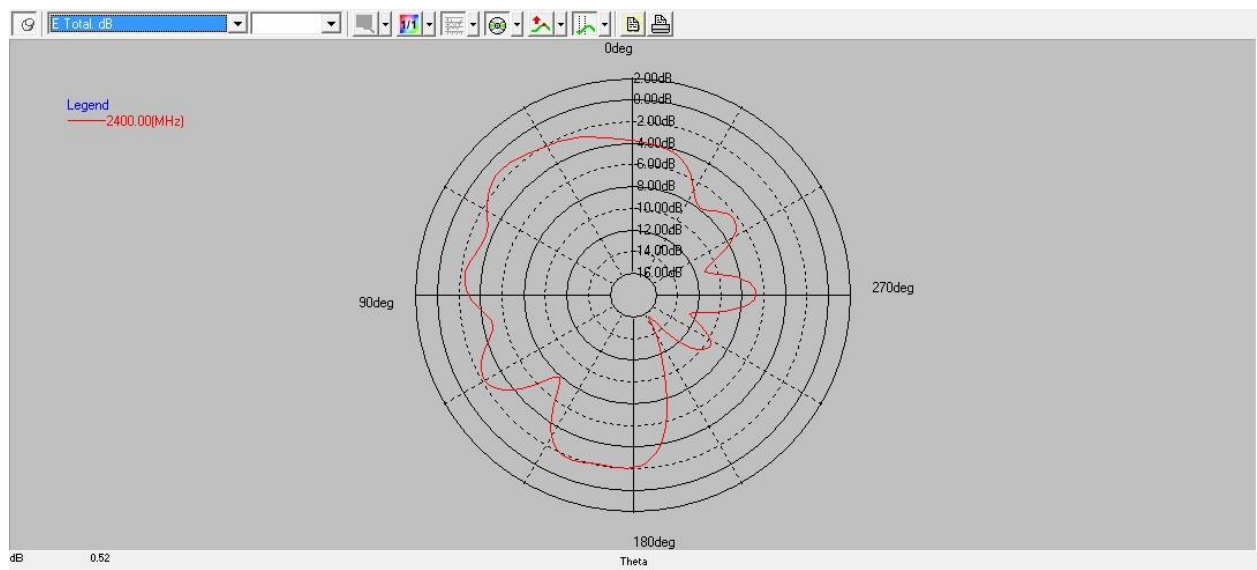
最大增益值 Maximum gain value

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	-0.347483
2410MHz	-0.502625
2420MHz	-0.772879
2430MHz	-0.955555
2440MHz	-1.23072
2450MHz	-1.94066
2460MHz	-1.90725
2470MHz	-2.01968
2480MHz	-2.30721
2490MHz	-2.28333
2500MHz	-2.8728

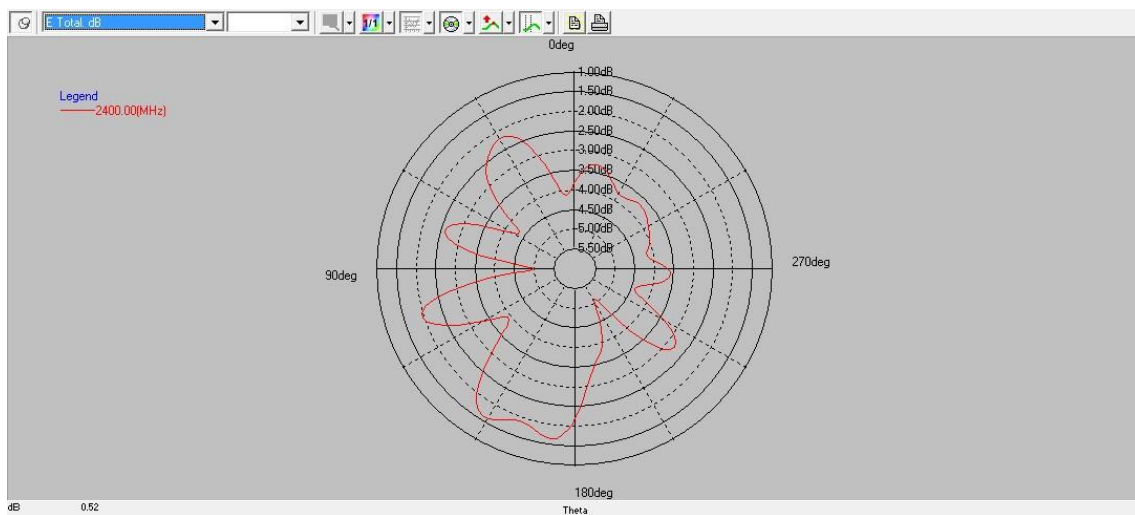
方向图Radiation pattern:



PHI 0 度



PHI 90 度



THETA 90 度

驻波比图 Standing wave ratio diagram:

