

深圳市源动力数码科技有限公司

Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901

Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400

蓝牙天线样品承认书

BT Antenna Product Approval

时间：2020-12-4

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 1.6mm 材料,

深圳市源动力数码科技有限公司

Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901

Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400

Our company's Bluetooth antenna is directly fabricated onto the PCB board.

The antenna is made using a copper foil with tin plating process. The copper foil thickness is H/HOZ. The board material is FR-4 with a thickness of 1.6mm.

二、天线外形 II. Antenna Shape

1. 尺寸图 Dimension drawing :

深圳市源动力数码科技有限公司

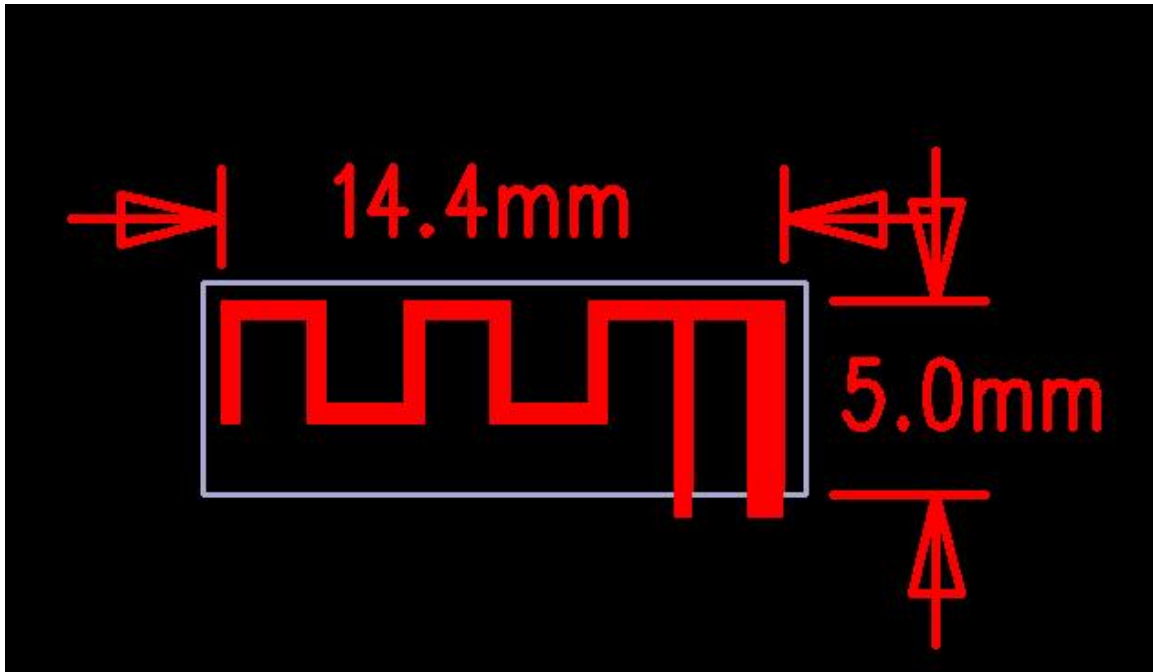
Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901

Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400



2.实物图 P:

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

深圳市源动力数码科技有限公司
Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901
Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901
電話:86-755-8326-6570 传真: 86-755-8325 5400

的主要参数。

The working frequency of the Bluetooth antenna is within the range of 2402 - 2480 MHz, and it resonates in this frequency band. The following table presents the main parameters of the antenna.

蓝牙内置天线 Built-in Bluetooth 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

四、天线增益检测报告 Antenna Gain Test 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

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	-0.347483
2410MHz	-0.502625
2420MHz	-0.772879

深圳市源动力数码科技有限公司

Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路2号宝龙大厦A座901

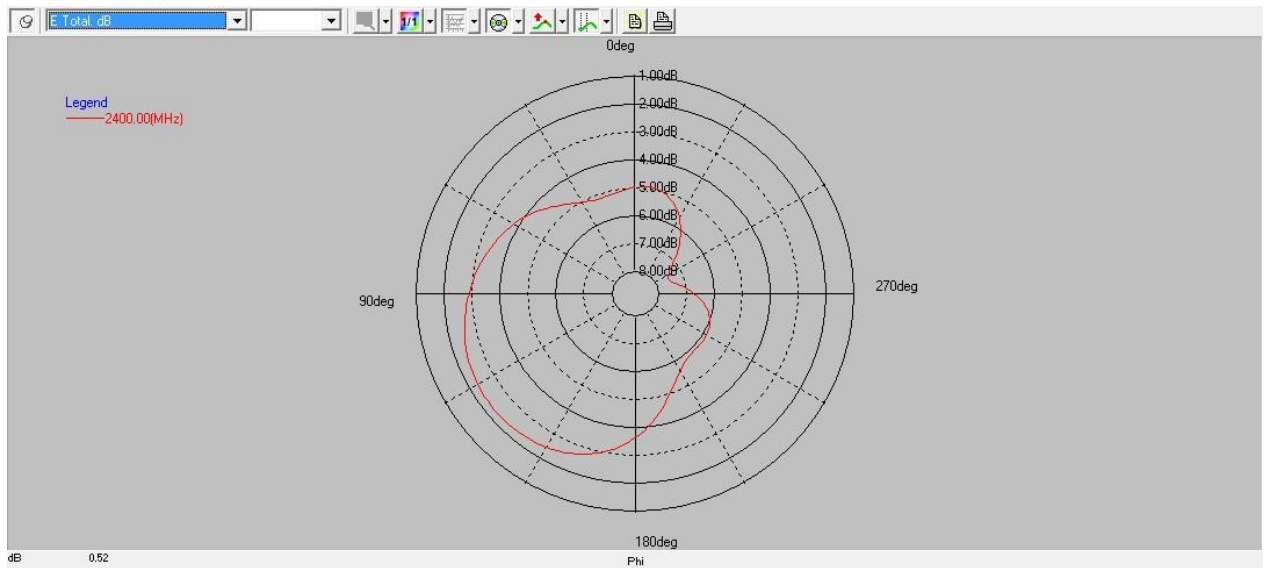
Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400

2430MHz	-0.95555
2440MHz	-1.23072
2450MHz	-1.94066
2460MHz	-1.90725
2470MHz	-2.01968
2480MHz	-2.30721
2490MHz	-2.28333
2500MHz	-2.8728

方向图Directional pattern:



PHI 0 度

深圳市源动力数码科技有限公司

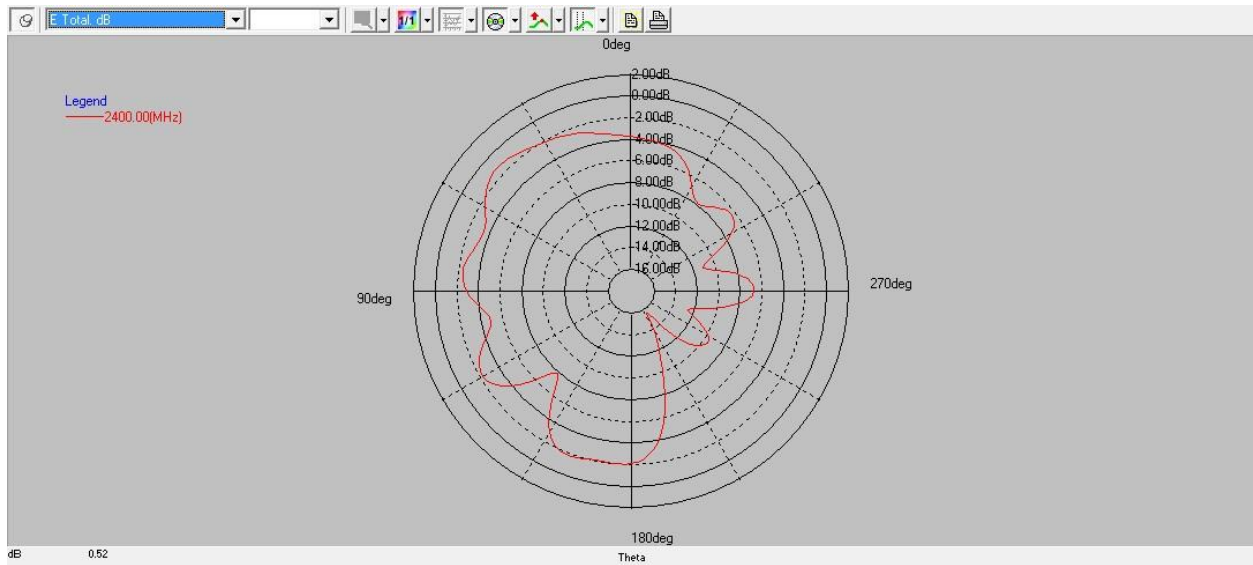
Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901

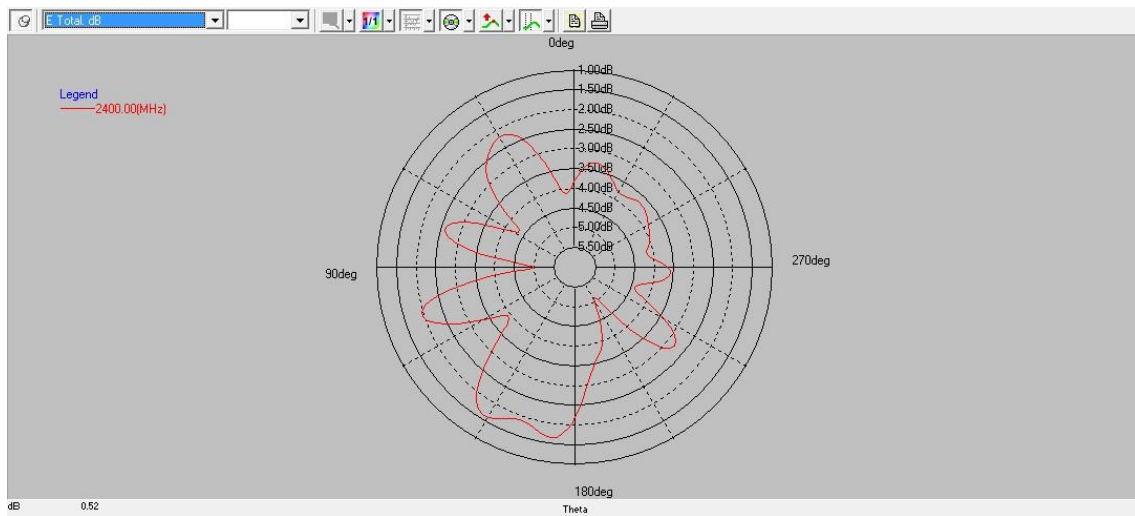
Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400



PHI 90 度



THETA 90 度

驻波比图 Standing wave diagram:

深圳市源动力数码科技有限公司

Shenzhen Yuan Dingwu Digital Technology Co., Ltd.

地址:深圳龙华大浪高峰社区龙观西路 2 号宝龙大厦 A 座 901

Address: No. 2, Longwan West Road, Dalong Community, Longhua District, Shenzhen, China - Building A, Baolong Mansion, 901

電話:86-755-8326-6570

传真: 86-755-8325 5400

