

Shenzhen Fangxin Electronic Technology Co., Ltd

Address: Building 3, Baoneng Science Park, Qingxiang Road, Longhua District, Shenzhen, Room 530

Bluetooth Antenna Sample Acknowledgement FormBT Antenna Product Approval

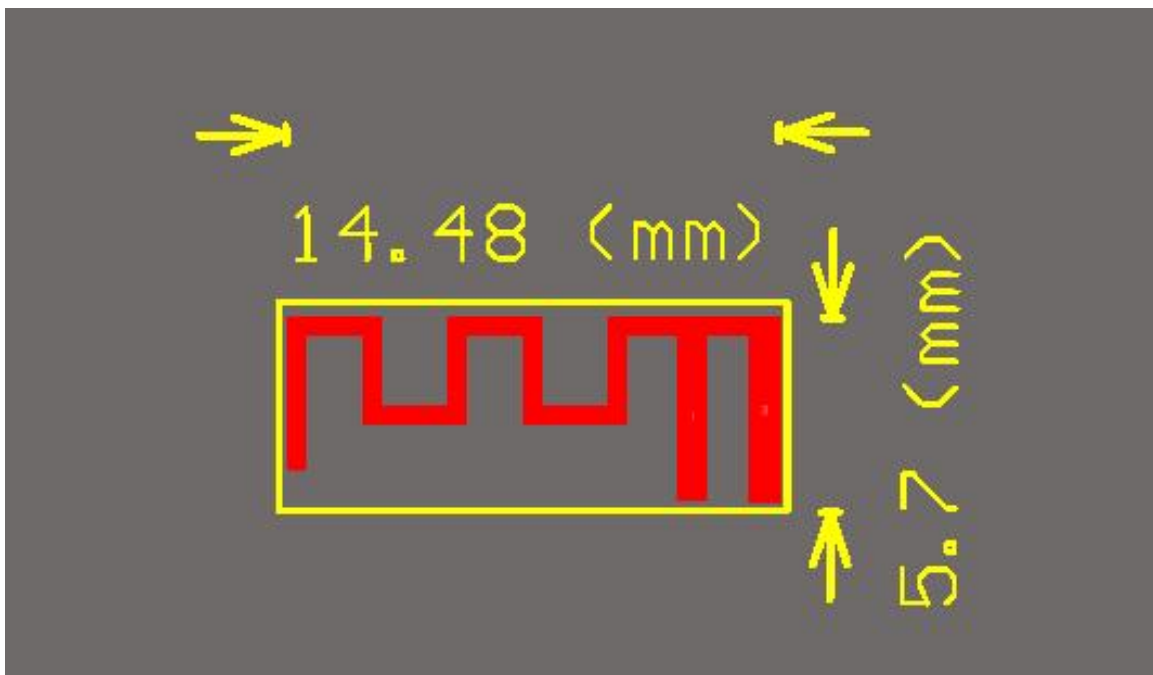
time: 2025-12-13

一、 Antenna Introduction

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 thickness of the copper foil is 1HOZ, and the board material is FR-4 with a thickness of 1.0mm.

二. Antenna Shape

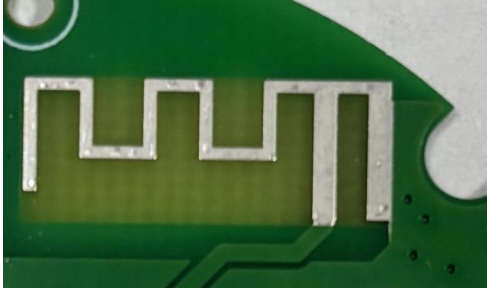
1. 尺寸图：



2. 实物图：

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三、 antenna parameter

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

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、 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		

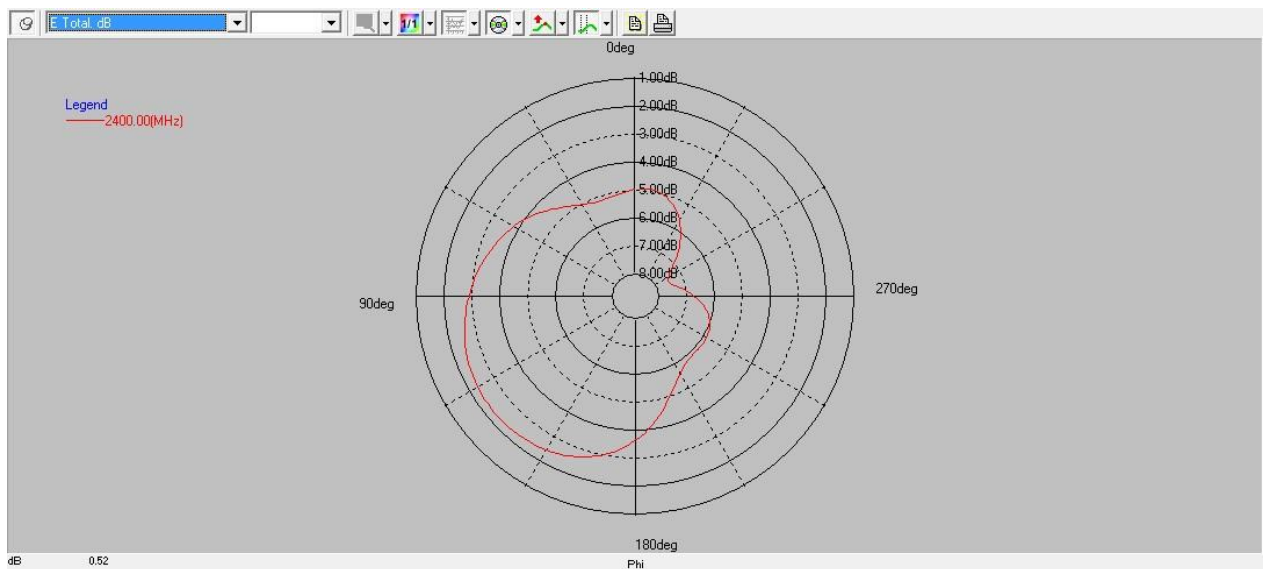
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Maximum gain value

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

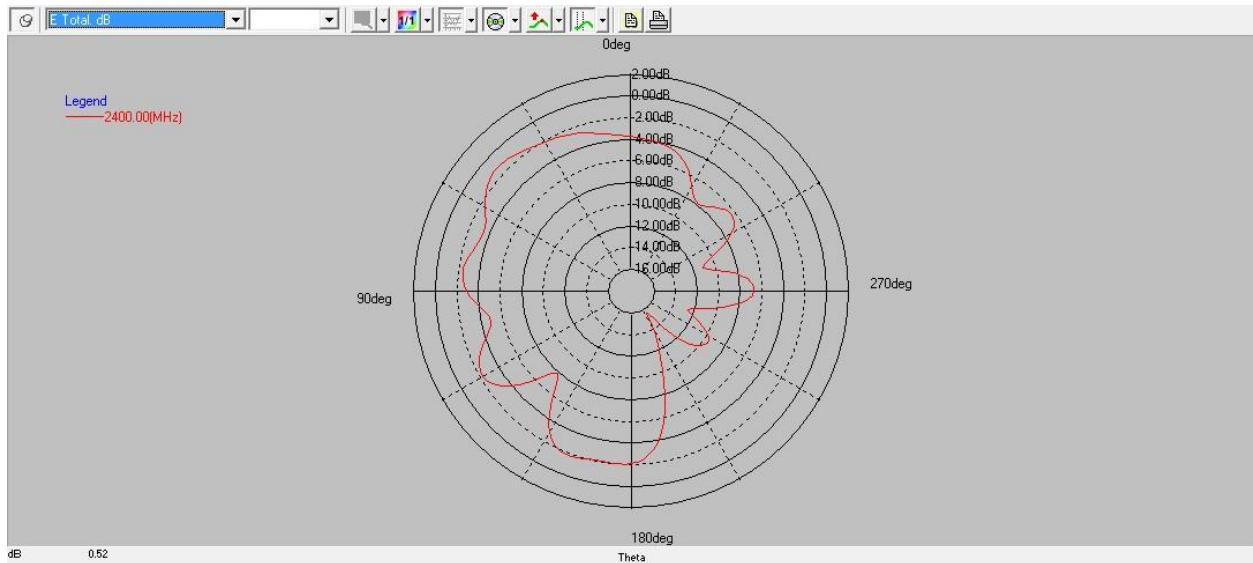
directional diagram:



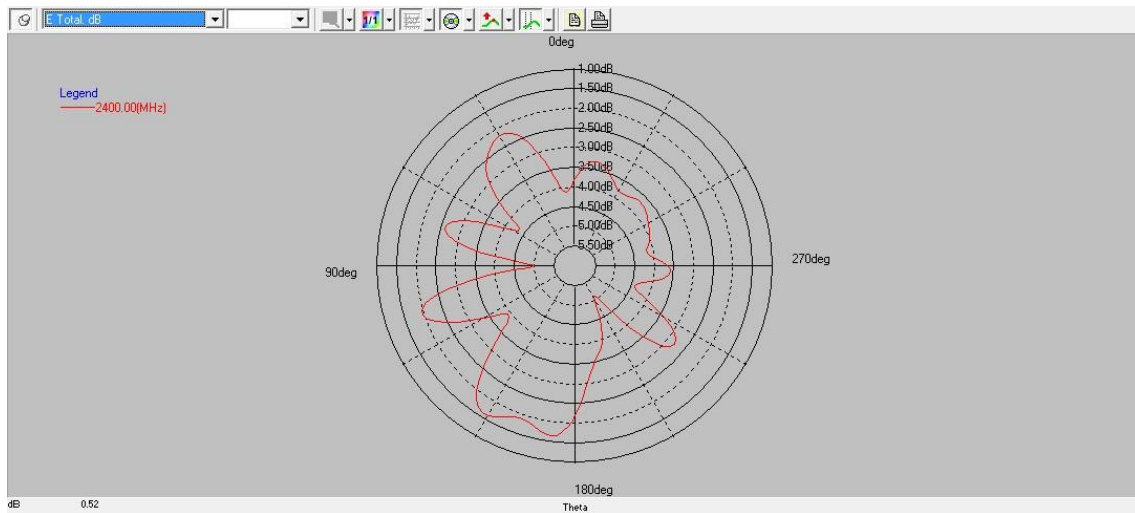
PHI 0 度

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PHI 90 度



THETA 90 度

Standing wave diagram:

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