

Shenzhen Yuan Dongli Digital Technology Co., Ltd.

Building 3, Floor 3, A 栋, Ruixing Science Park, No. 6, Sanhe Road, Longhua District, Shenzhen City
phone:86-755-8326-6570 fax: 86-755-8325 5400

BT Antenna Product Approval

时间： 2026-9-30

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 copper foil thickness is H/HOZ. The board material is FR-4 with a thickness of 1.6mm.

二、 Antenna Shape

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1. dimension figure: 9.85*2.85*0.5mm



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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 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		

最大增益值

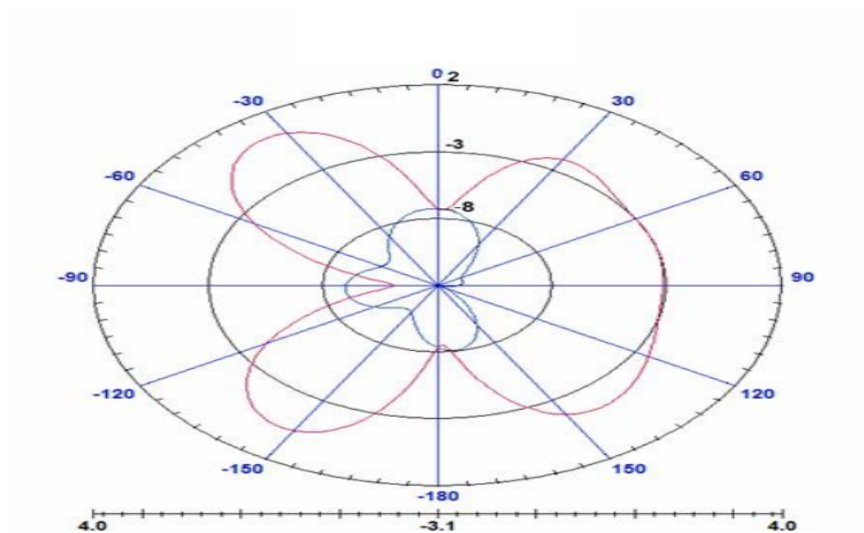
Frequency VNA (MHz)	E Total. dBi (dBi)
2400MHz	0
2410MHz	-0.502625
2420MHz	-0.772879
2430MHz	-0.955555
2440MHz	-1.23072

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2450MHz	-1.94066
2460MHz	-1.90725
2470MHz	-2.01968
2480MHz	-2.30721
2490MHz	-2.28333
2500MHz	-2.8728

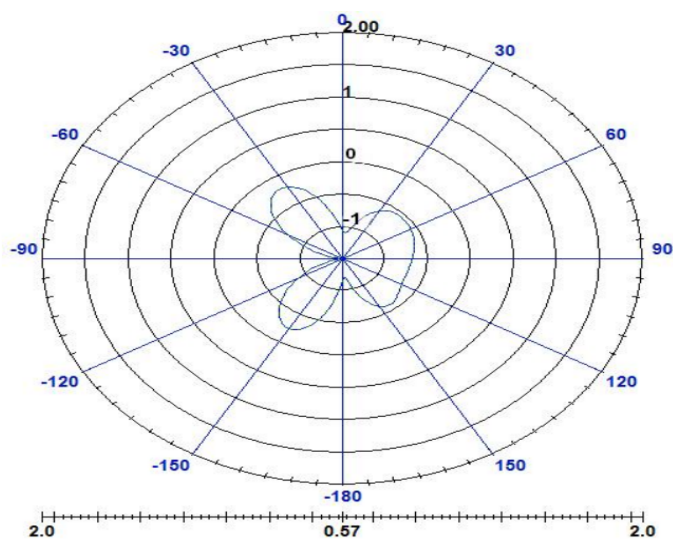
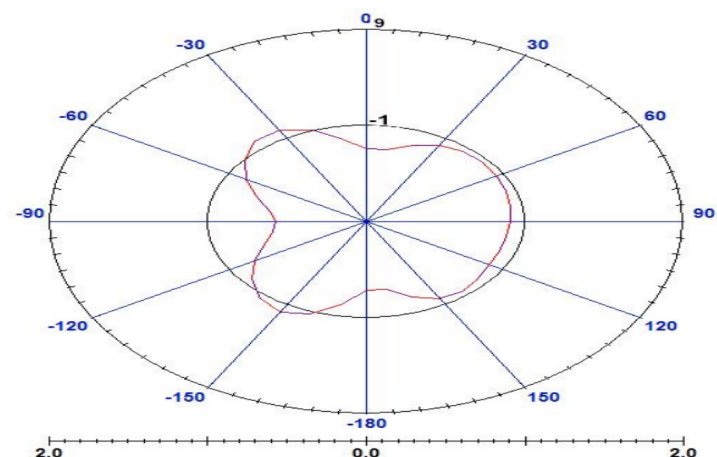
directional diagram:



PHI 0 limit

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THETA 90 度

Standing wave diagram:

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