

Bluetooth Antenna Specification Document

一、Antenna Overview

The Bluetooth antenna is an PCB antenna integrated directly onto the PCB board.

Model:M83 PCB antenna

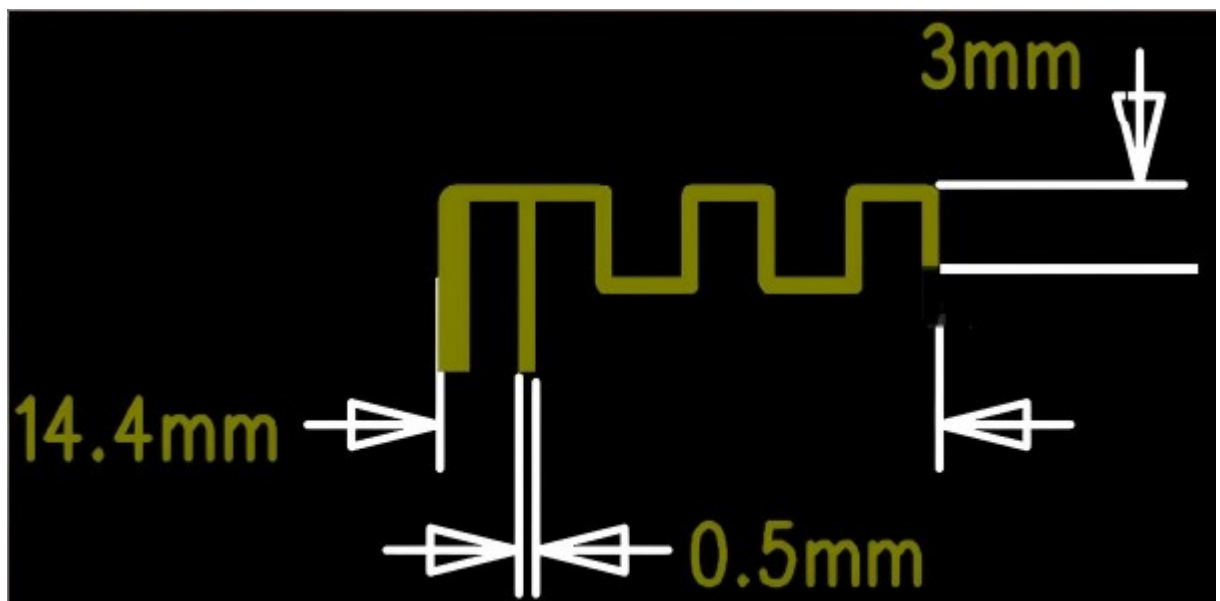
Manufacturer: Shenzhen Jonter Digital Co.,Ltd

Address: 3/F, Building4, Jinfo Industrial Park, Hezhou Village, HangchengTown, Bao'an District, Shenzhen, Guangdong, China

二、Antenna Shape

1.Dimension drawing : 14.4*4.1*0.5mm

2.Actual photo:



三、Antenna Specs

The Bluetooth antenna operates at a frequency range of 2402 – 2480 MHz and resonates within this frequency band. The table below lists the main specifications of the antenna.

PCB antenna	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	-0.3dBi
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 %

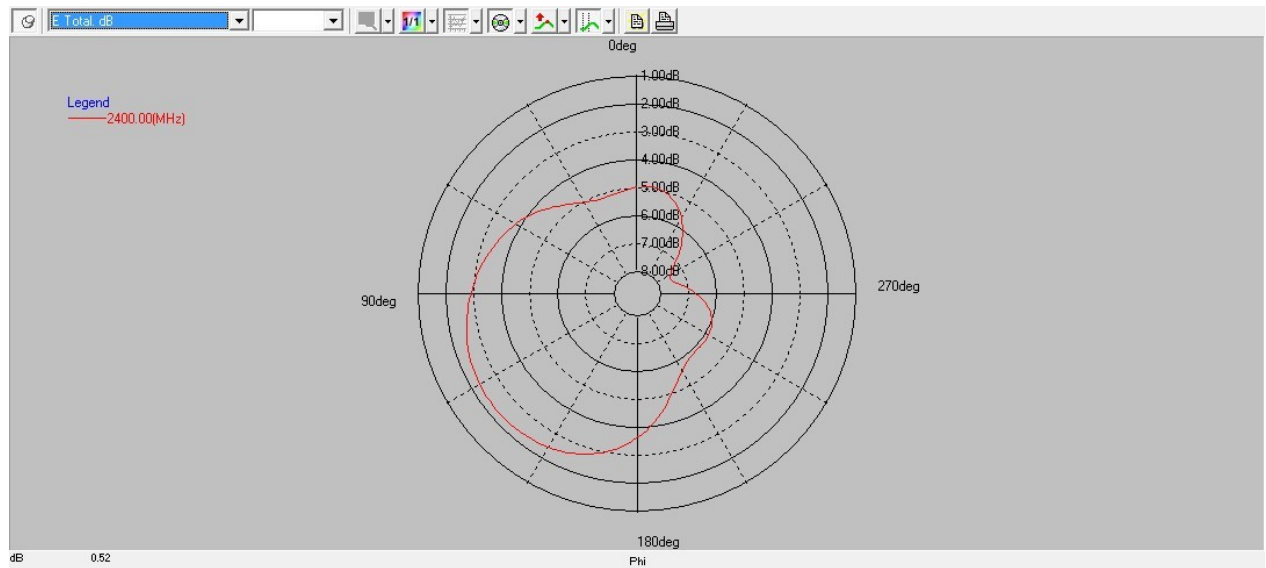
Modulation:

GFSK

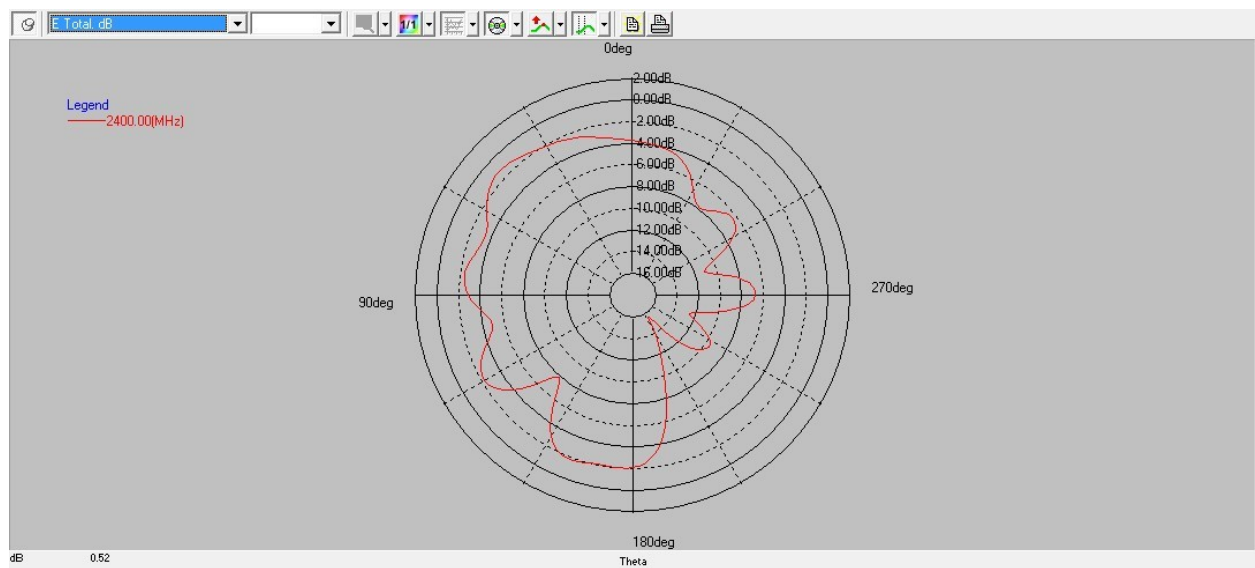
Maximum Gain

Frequency VNA (MHz)	E Total. dB(dBi)
2400MHz	-0.3
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

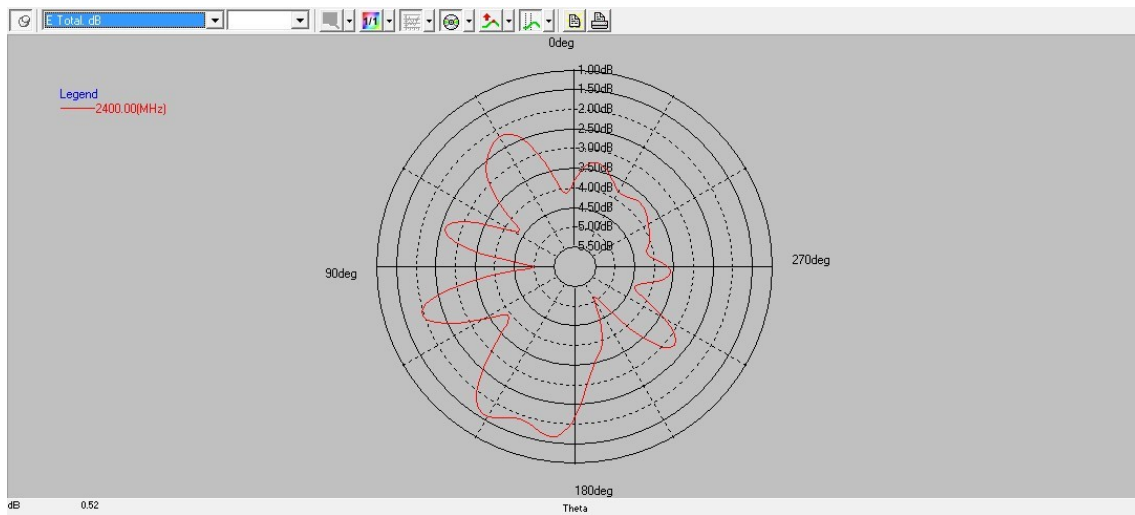
Radiation Pattern:



PHI 0°



PHI 90°



THETA 90 °

VSWR Curve:

