
Antenna specification

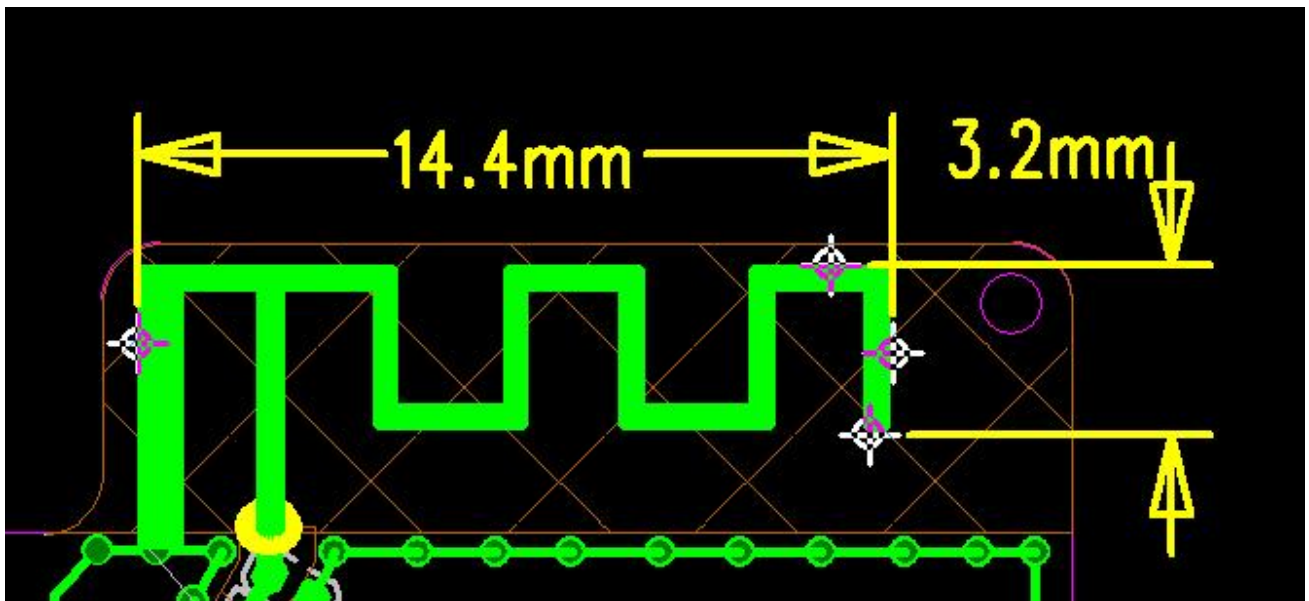
1、Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Lenze Design Inc

Address : 7th Floor,Ching Po Building,Shenzhen Special Zone Press Group,Futian District,Shenzhen

2、Antenna shape



3、Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	-3 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin
Model	F40

4、Antenna gain report

Spectrum Detector:

PK

Test Date :

Feb 18, 2022

Test By:

Mark

Temperature :

25°C

Test Result:

PASS

Humidity :

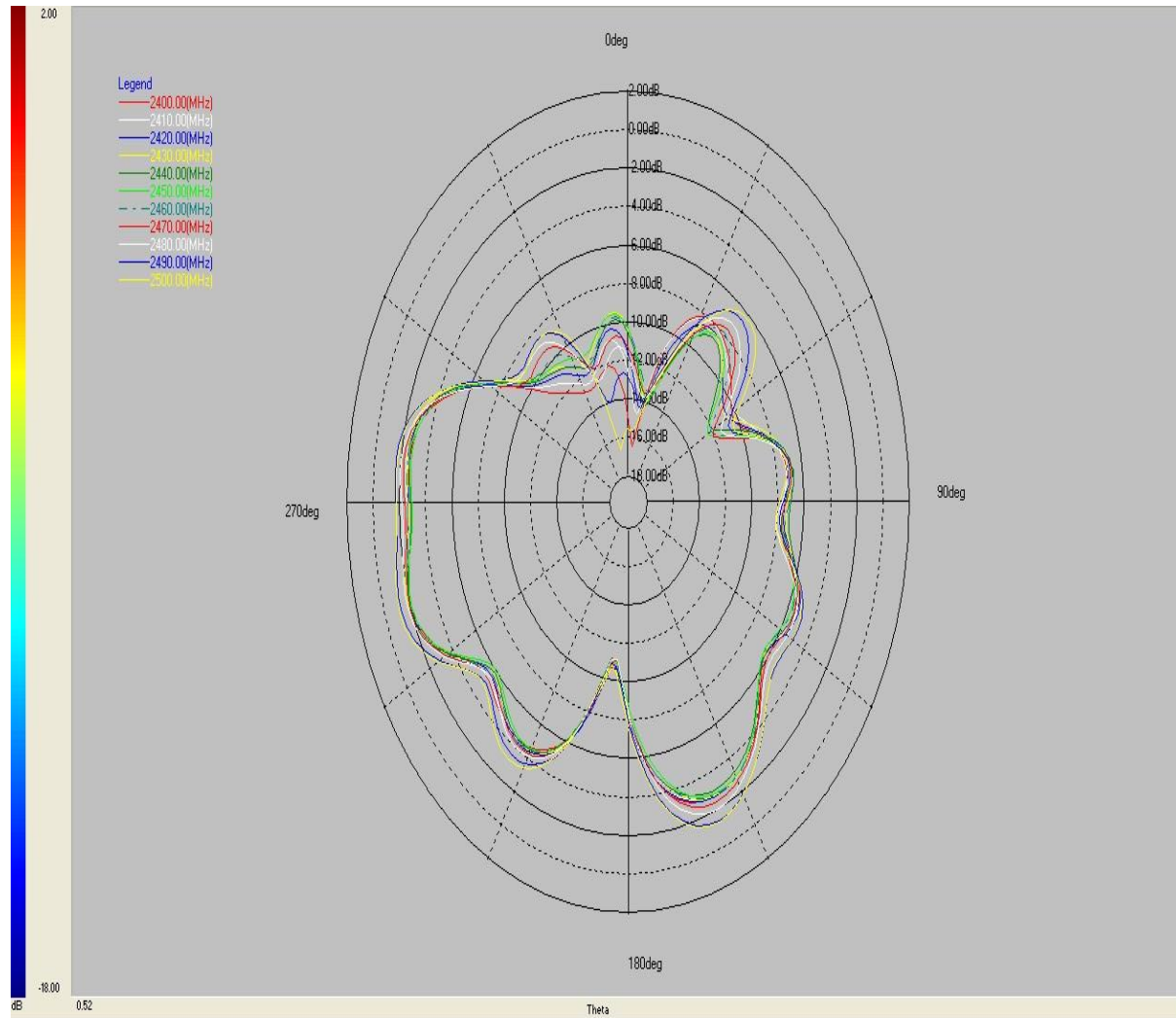
52 %

Modulation:

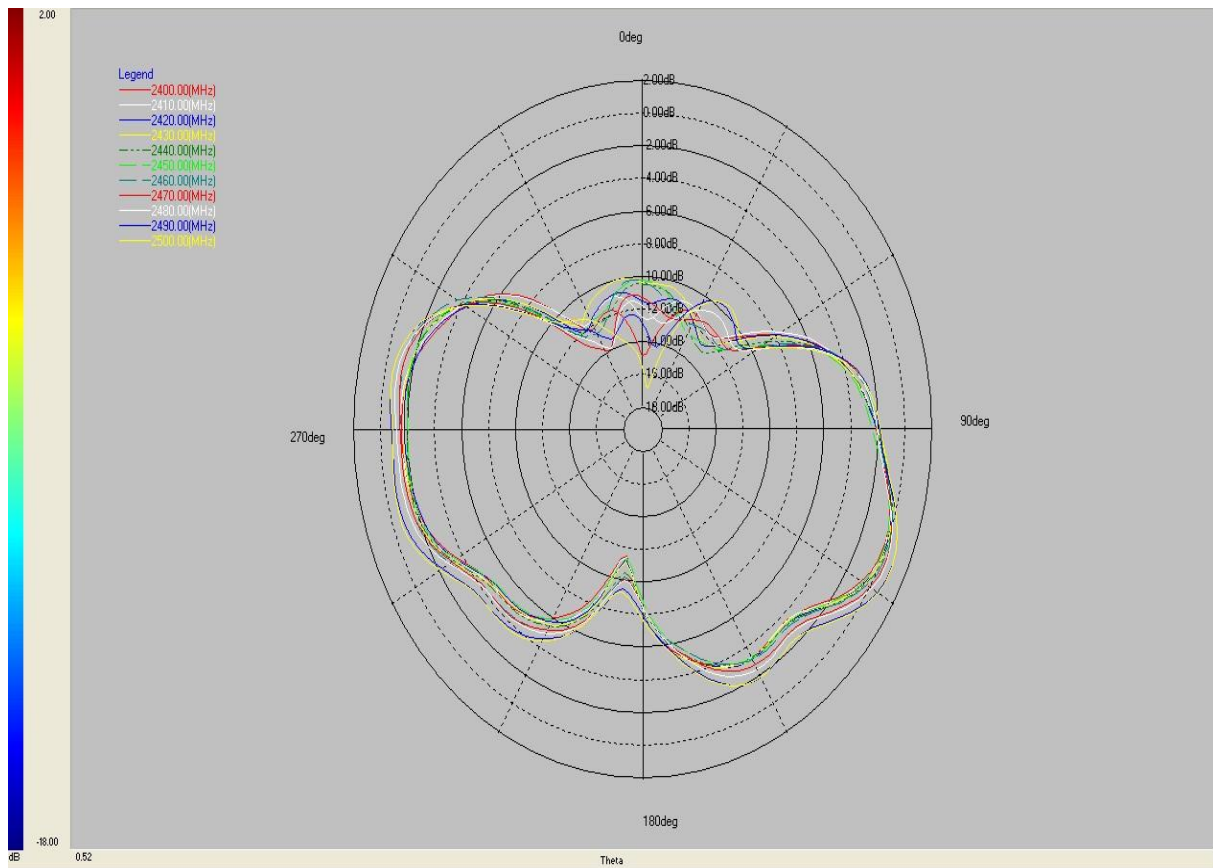
GFSK

Frequency VNA (MHz)	Gian (dBi)
2400MHz	-3.42
2410MHz	-3.53
2420MHz	-3.40
2430MHz	-3.57
2440MHz	-3.00
2450MHz	-3.46
2460MHz	-3.35
2470MHz	-3.16
2480MHz	-3.42
2490MHz	-3.76
2500MHz	-3.34

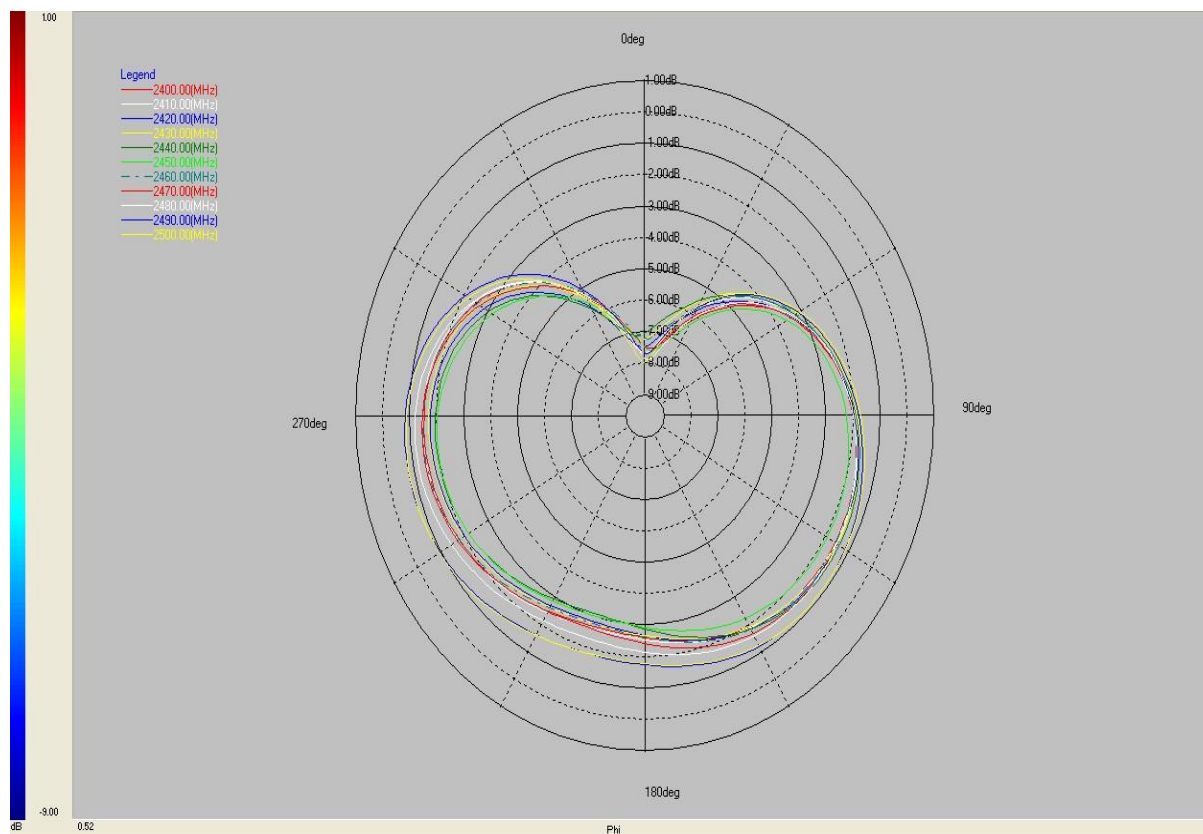
Direction map:



PHI 0°



PHI 90°



THETA 90°