
Antenna specification

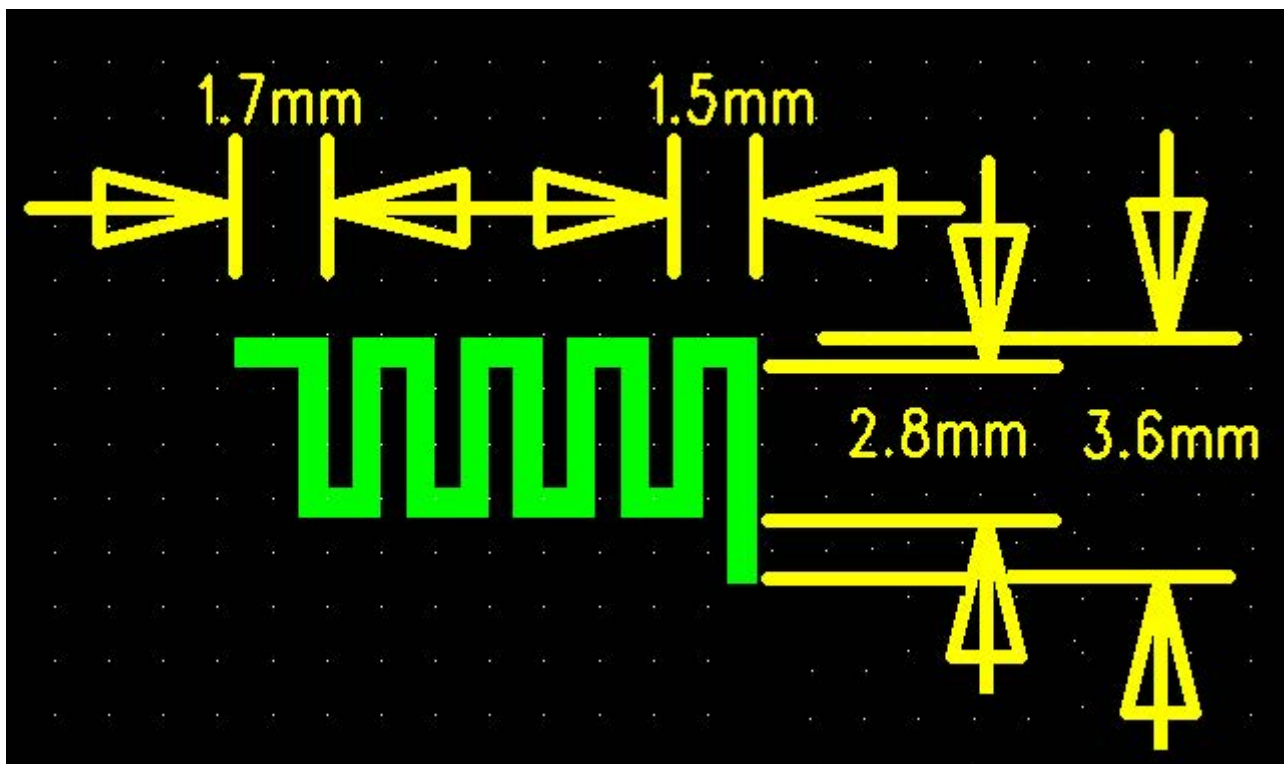
1、Antenna introduction

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 2400-2500 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

Frequency (MHz)	2400 ~ 2500 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、 Antenna gain report

Spectrum Detector:

PK

Test Date :

Feb 18, 2022

Test By:

Mark

Temperature :

25°C

Test Result:

PASS

Humidity :

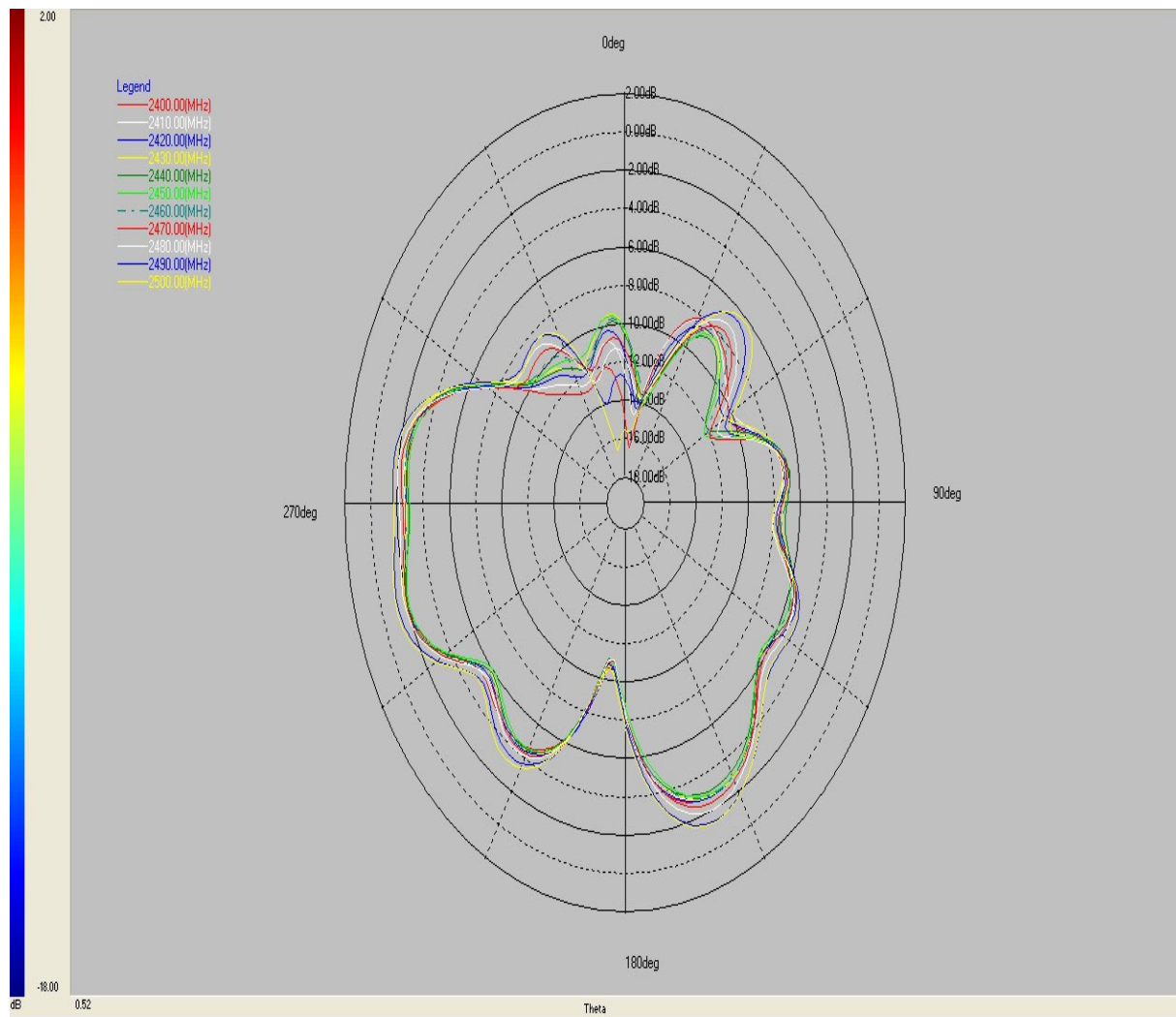
52 %

Modulation:

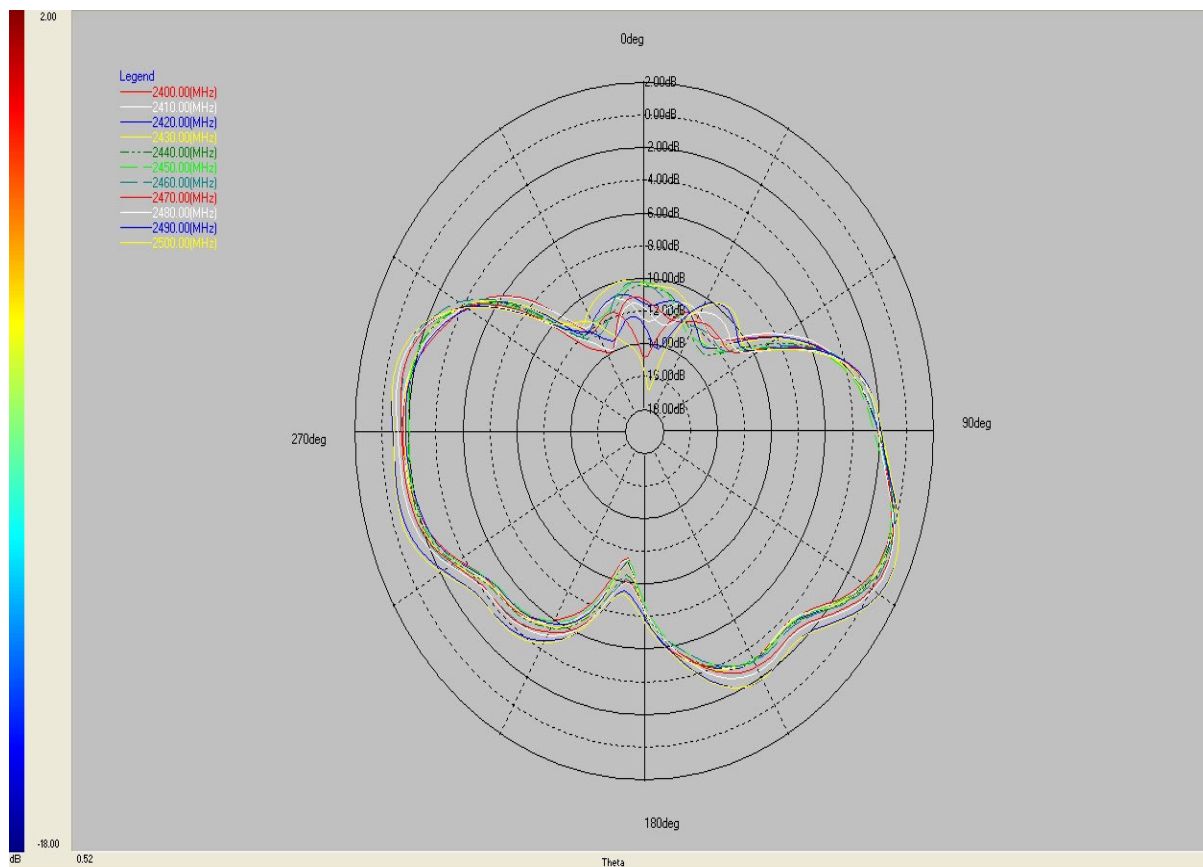
GFSK

Frequency VNA (MHz)	Gain(dBi)
2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012
2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	1.05232
2500MHz	1.08443

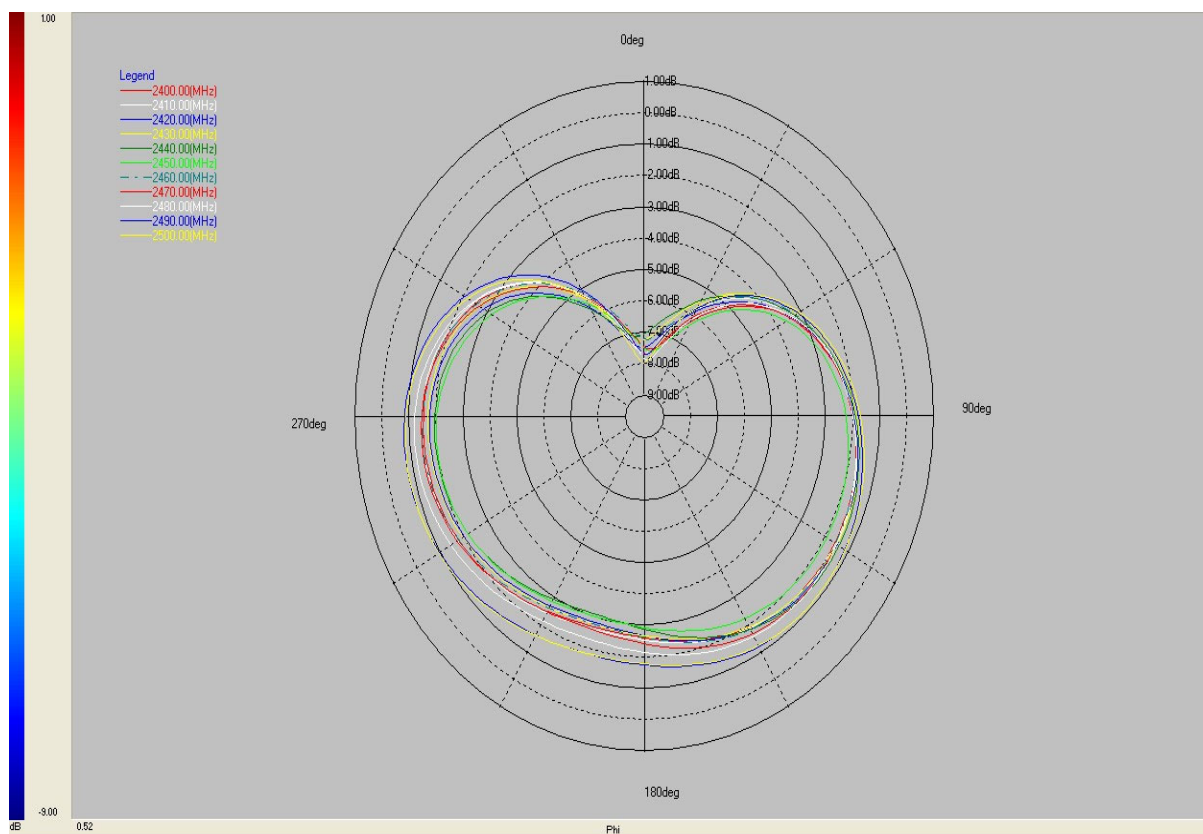
Direction map:



PHI 0°



$\Phi = 90^\circ$



$\Theta = 90^\circ$