
Antenna specification

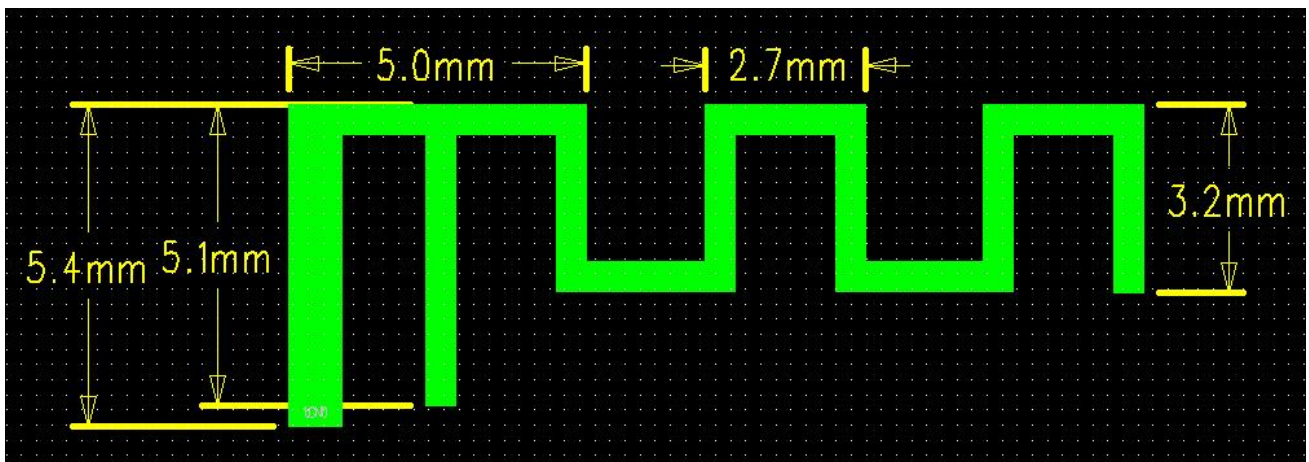
1、Antenna introduction

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.

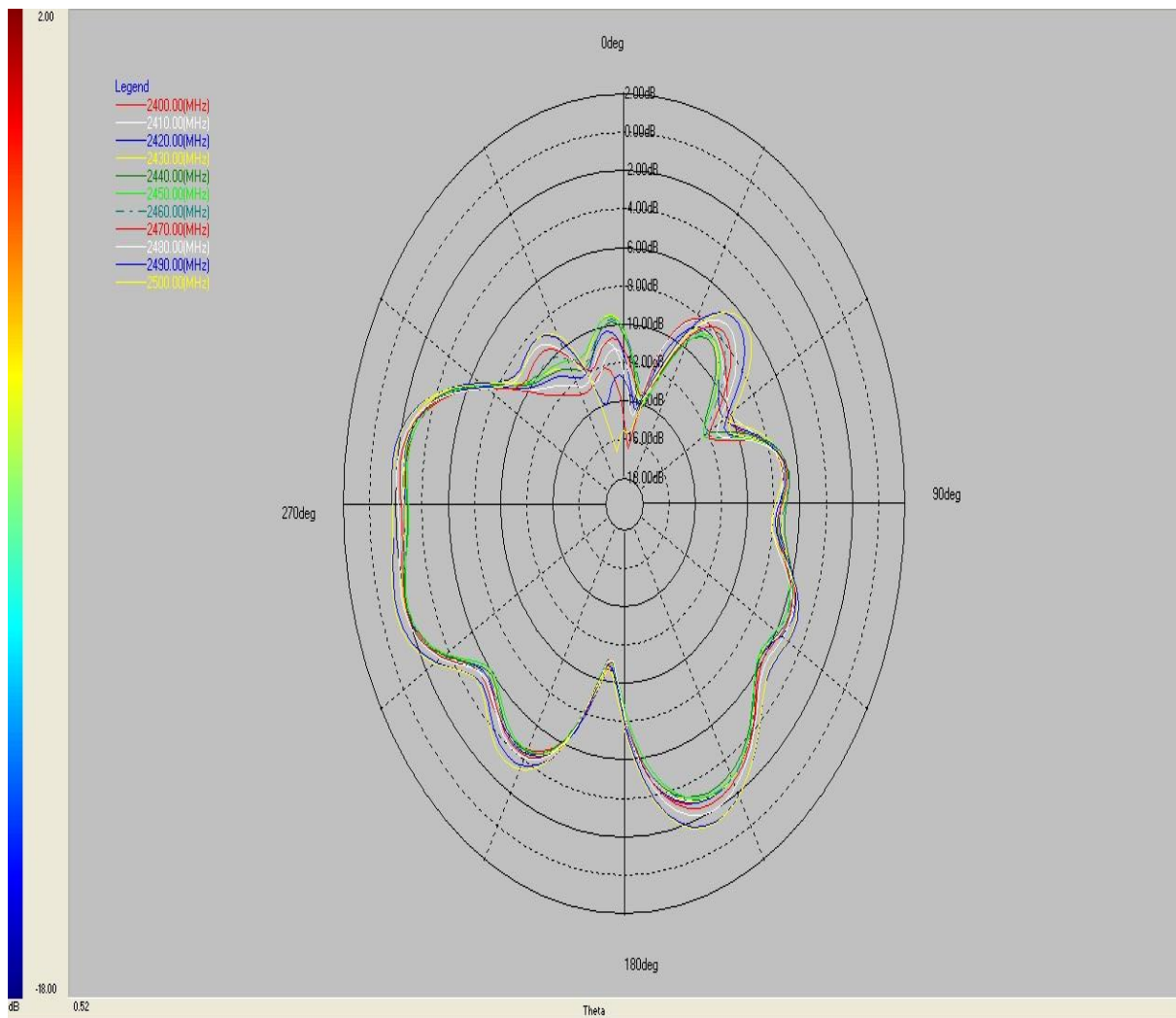
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、Antenna gain report

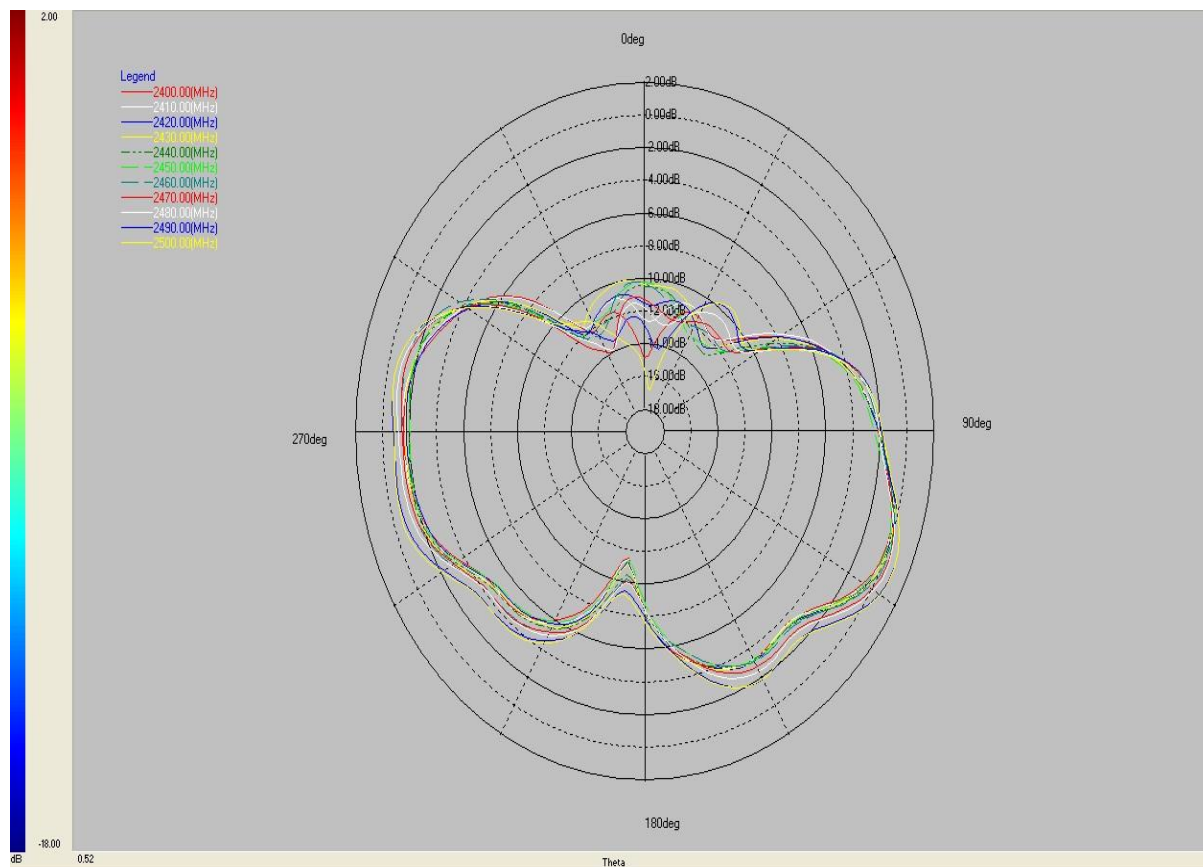
Spectrum Detector:	PK	Test Date :	Feb 18, 2022
Test By:	Mark	Temperature :	25℃
Test Result:	PASS	Humidity :	52 %
Modulation:	GFSK		

Frequency VNA (MHz)	E Total. (dBi)
2400MHz	0.04
2410MHz	0.09
2420MHz	0.27
2430MHz	0.19
2440MHz	0.26
2450MHz	0.07
2460MHz	0.37
2470MHz	0.55
2480MHz	0.64
2490MHz	1.05
2500MHz	1.08

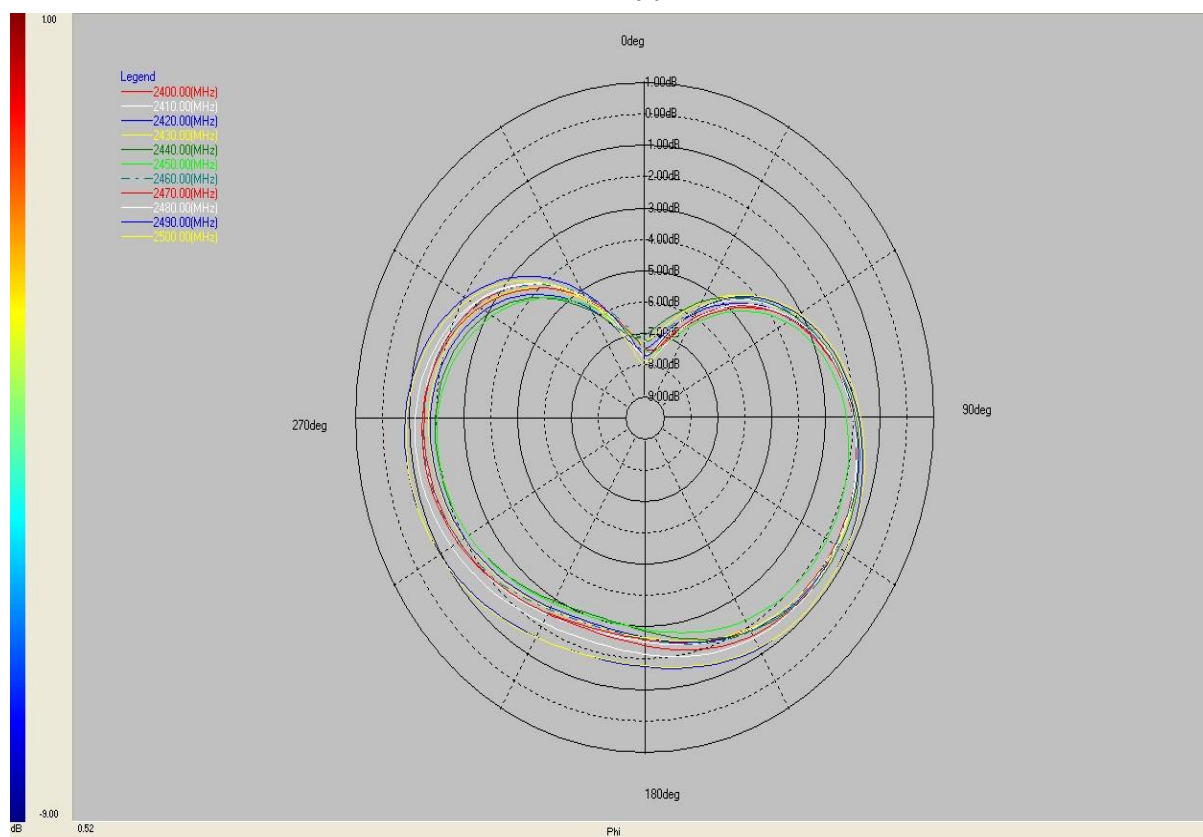
Direction map:



PHI 0°



PHI 90°



THETA 90°