
Antenna specification

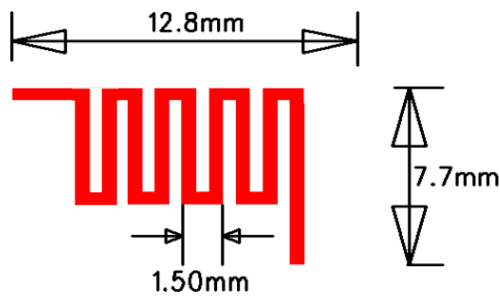
1、 Antenna introduction

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,Futia District
,Shenzhen 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.

PCB Antenna	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	-1.5 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin
Model	2.4G ANT

4、 Antenna gain report

Spectrum Detector:

PK

Test Date :

Feb 18, 2022

Test By:

Mark

Temperature :

25°C

Test Result:

PASS

Humidity :

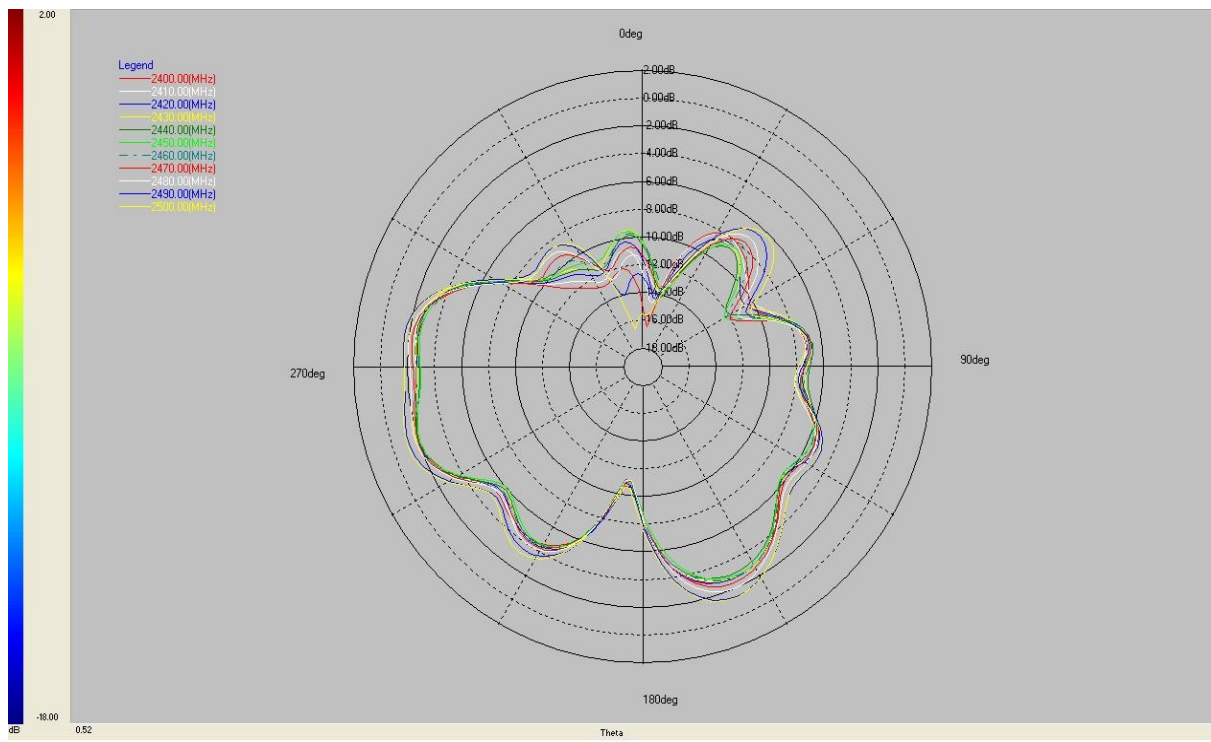
52 %

Modulation:

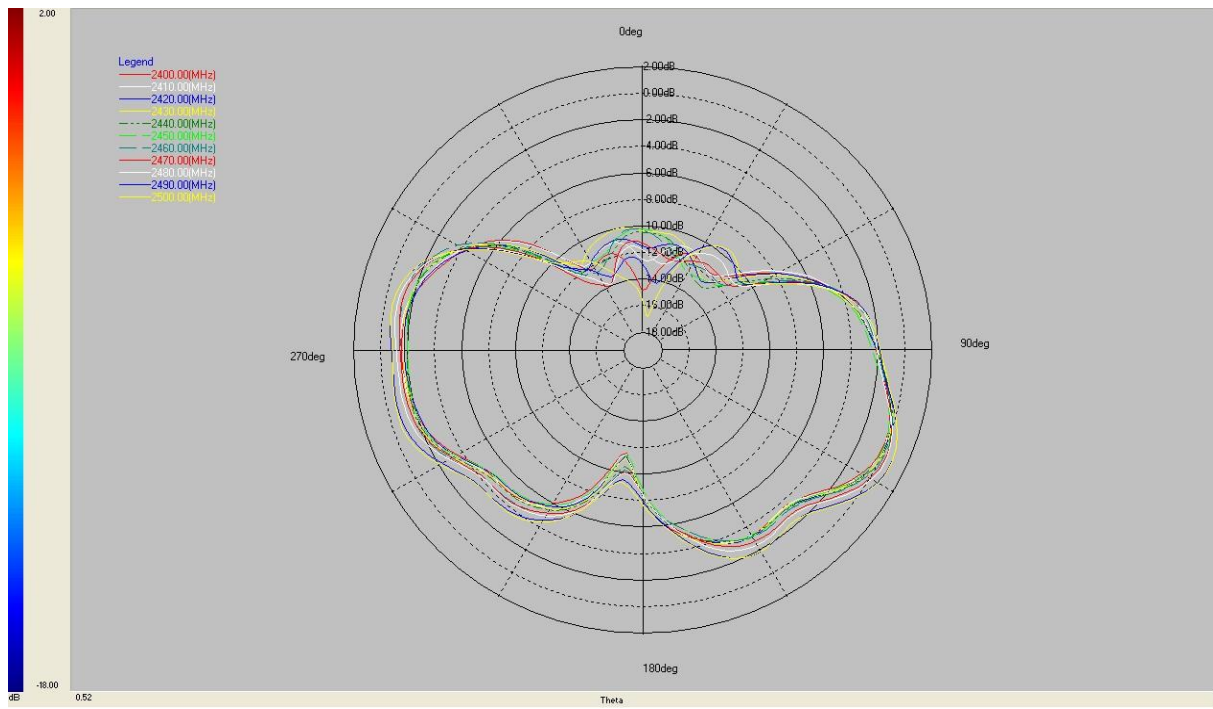
GFSK

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	-2.0403503
2410MHz	-2.0886264
2420MHz	-2.267381
2430MHz	-2.193012
2440MHz	-2.26366
2450MHz	-2.0723139
2460MHz	-2.36895
2470MHz	-2.551525
2480MHz	-2.640702
2490MHz	-2.05232
2500MHz	-1.50443

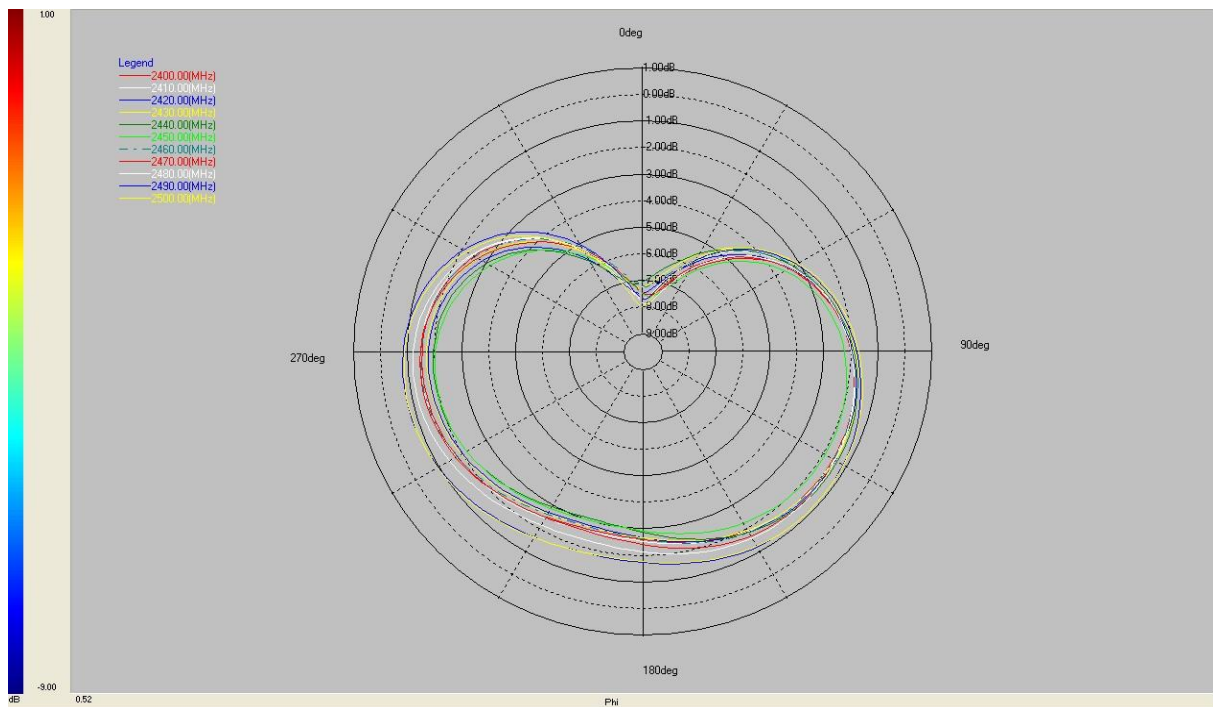
Direction map:



PHI 0°



PHI 90°



THETA 90°