
Antenna specification

1、 Antenna introduction

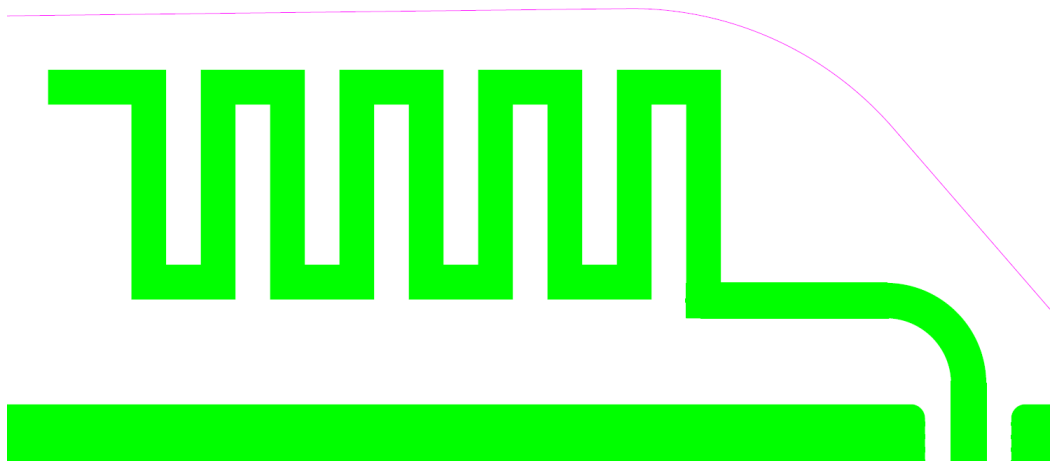
The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Lenze Design Inc

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

Model: 2.4G ANT

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)	2400 ~ 2500 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

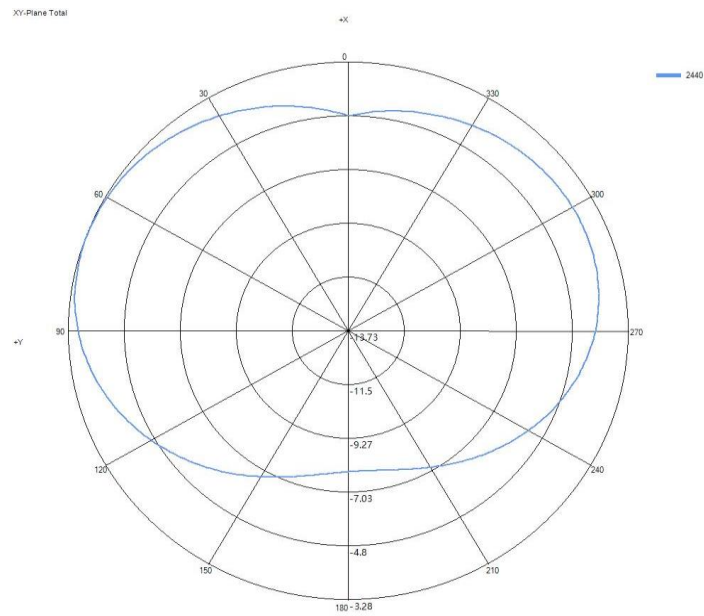
4、Antenna gain report

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

Frequency (MHz)	Gain (dBi)
2400MHz	-3.34
2410MHz	-3.28
2420MHz	-3.26
2430MHz	-3.19
2440MHz	-3.00
2450MHz	-3.09
2460MHz	-3.37
2470MHz	-3.35
2480MHz	-3.39
2490MHz	-3.45
2500MHz	-3.48

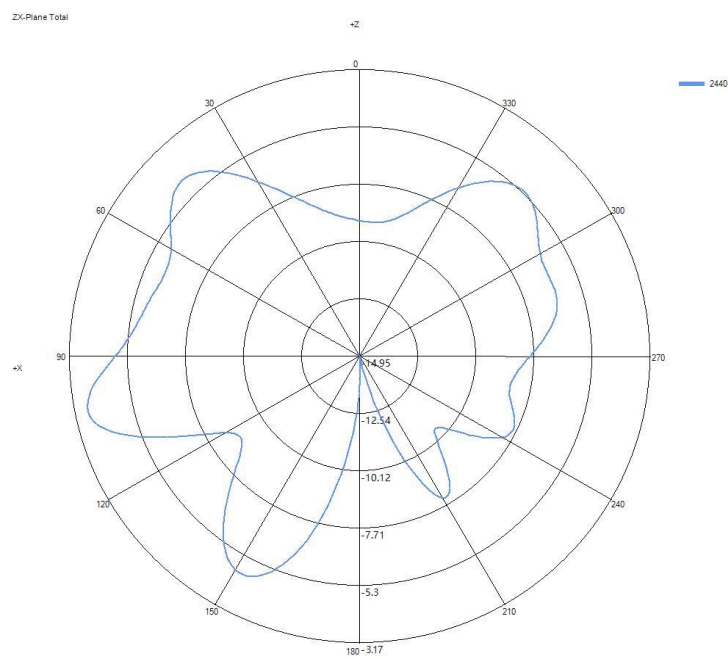
Antenna pattern:

XY-plane



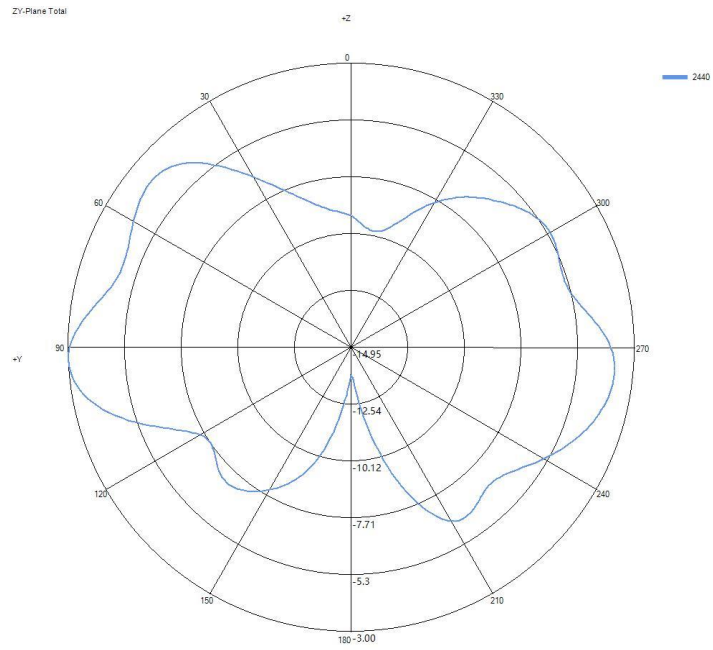
2440MHz

XZ-plane



2440MHz

YZ-plane



2440MHz