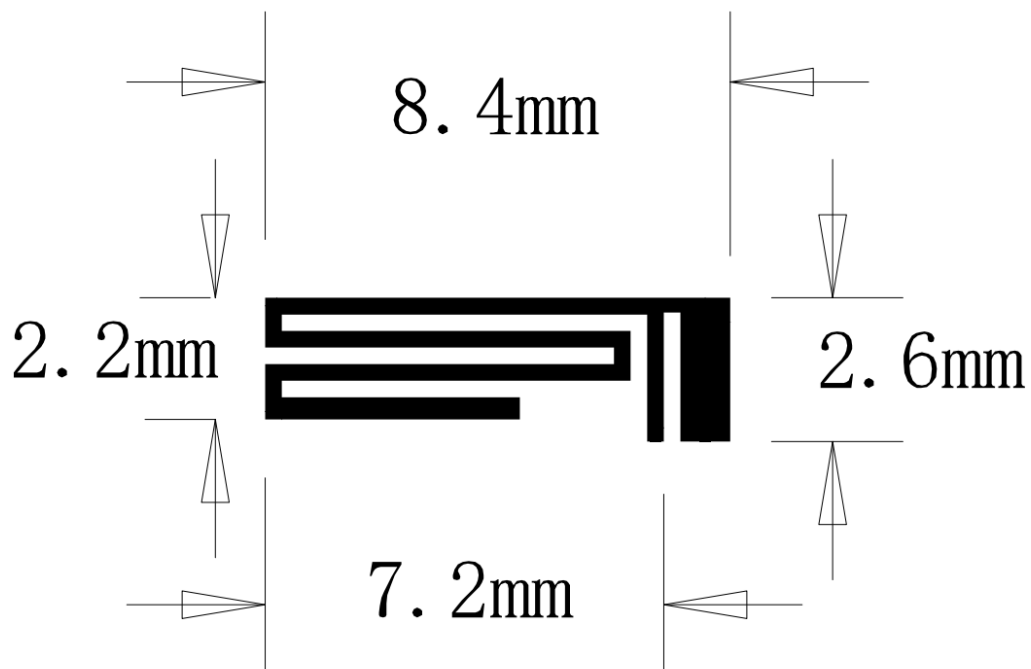

Antenna specification

1、 Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: WS Design Inc

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)	0.31 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、 Antenna gain report

Spectrum Detector:
Test By:
Test Result:
Modulation:

PK
Mark
PASS
GFSK

Test Date : Feb 18, 2022
Temperature : 25°C
Humidity : 52 %

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	-2.5896
2410MHz	-2.5413
2420MHz	-2.3626
2430MHz	-2.4369
2440MHz	-3.1663
2450MHz	-3.0576
2460MHz	-2.2610
2470MHz	-2.0784
2480MHz	-2.4407
2490MHz	0.30523
2500MHz	0.29414

Direction map:

