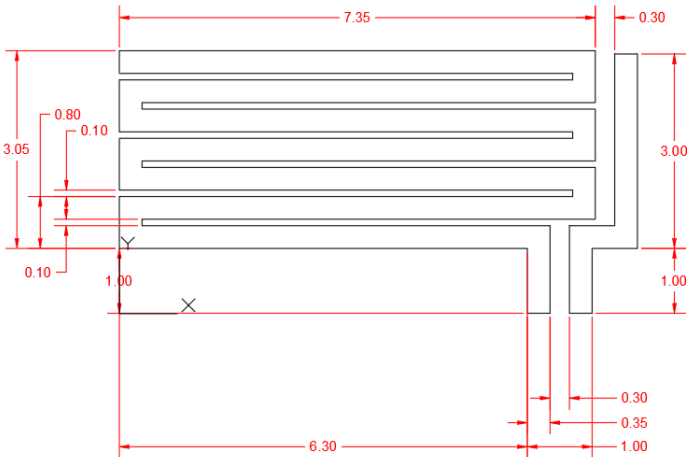


ANT-004-2G4

1、 Abstract

ANT-004-2G4 is a PCB antenna for 2.4GHz portable devices such as Bluetooth and WiFi.

2、 Outline



Size

3、 Frequency

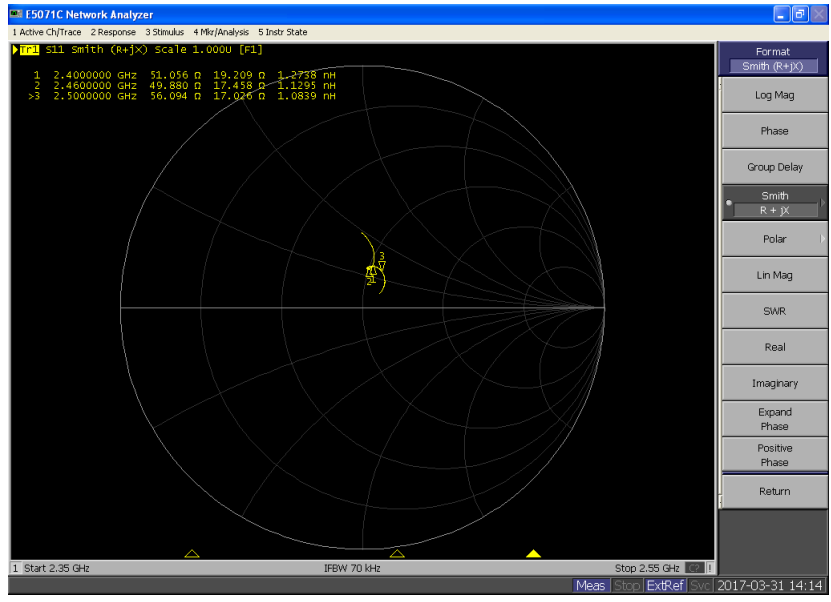
2402-2480MHz

4、 Performance

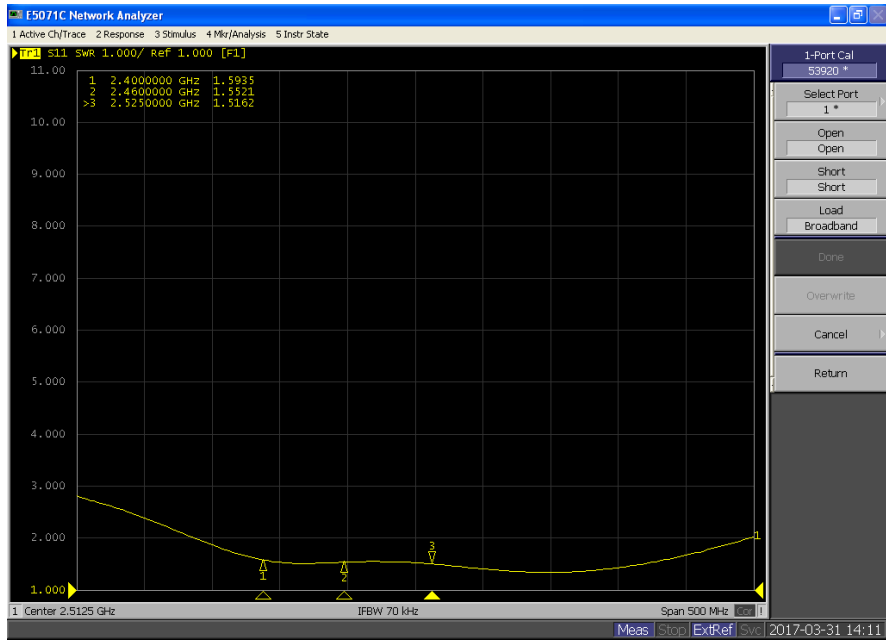
Parameter

Parameter

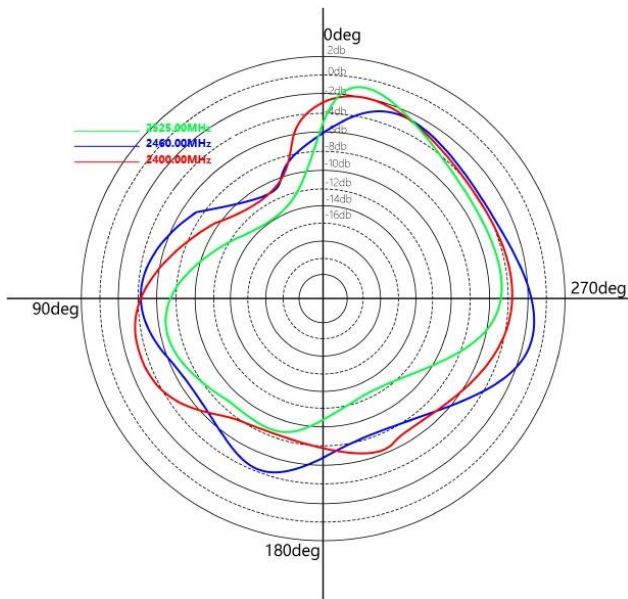
Frequency	SW R
2402MHz	<1.7
2460MHz	<1.7
2480MHz	<1.7



Smith chart

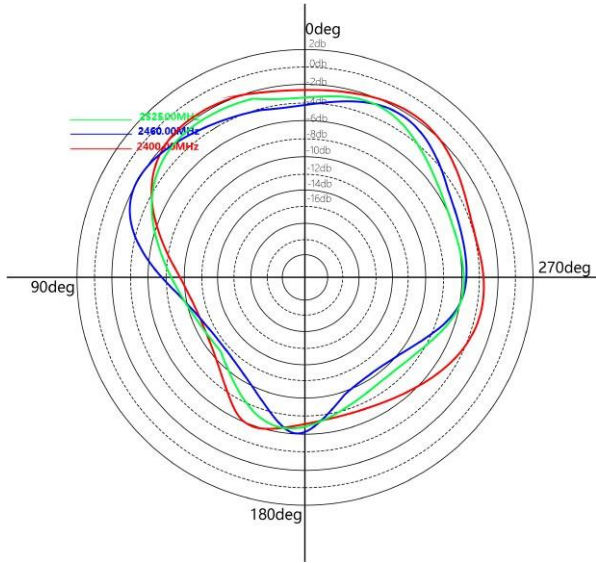


SWR Chart



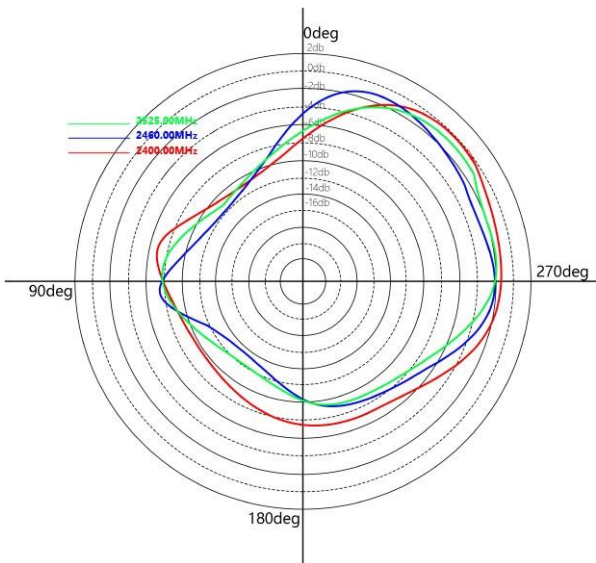
Frequency	Gain(max)
2400MHz	-2dBi
2460MHz	-1dBi
2525MHz	-1dBi

XOY Planar antenna gain diagram



Frequency	Gain(max)
2400MHz	-2dBi
2460MHz	-2dBi
2525MHz	-2dBi

XOZ antenna gain diagram



Frequency	Gain(max)
2400MHz	-1dBi
2440MHz	-1dBi
2525MHz	-1dBi

YOZ antenna gain diagram

5、 Notes

The antenna is sensitive to the size of the PCB RF ground layer and the plastic shell of the product. The antenna can be modeled as an LC resonator whose resonant frequency decreases when L(inductance) or C(capacitance) is increased. Larger radio frequency layers and plastic enclosures increase the effective capacitance, reducing the resonant frequency. Adjust the matching parameters according to the actual installation situation.