

ANT-003-2G4

1、简介：

ANT-003-2G4 是一款用于蓝牙、WiFi 等 2.4GHz 便携设备的 PCB 天线；
ANT-003-2G4 is a PCB antenna designed for 2.4GHz portable devices such as Bluetooth and WiFi;

2、外形尺寸Overall dimensions

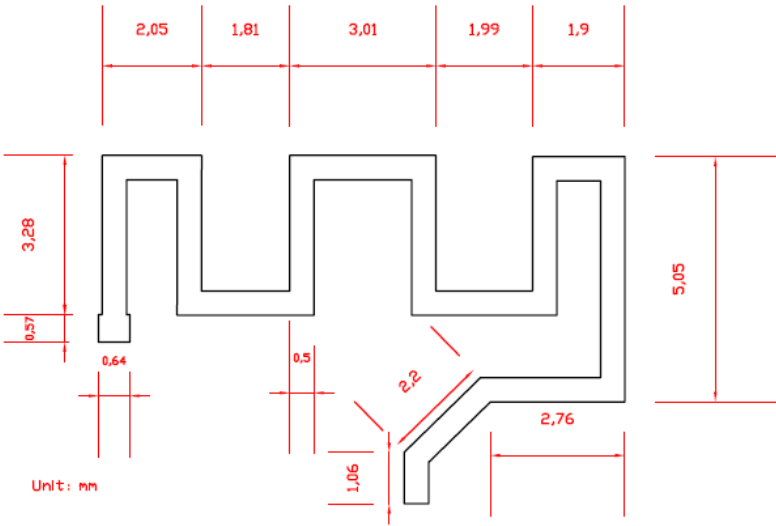


图 1 尺寸图

3、工作频率

2400-2525MHz

4、性能参数

表 1：性能参数

Frequency	SWR
2400MHz	<1.7
2460MHz	<1.7
2525MHz	<1.7

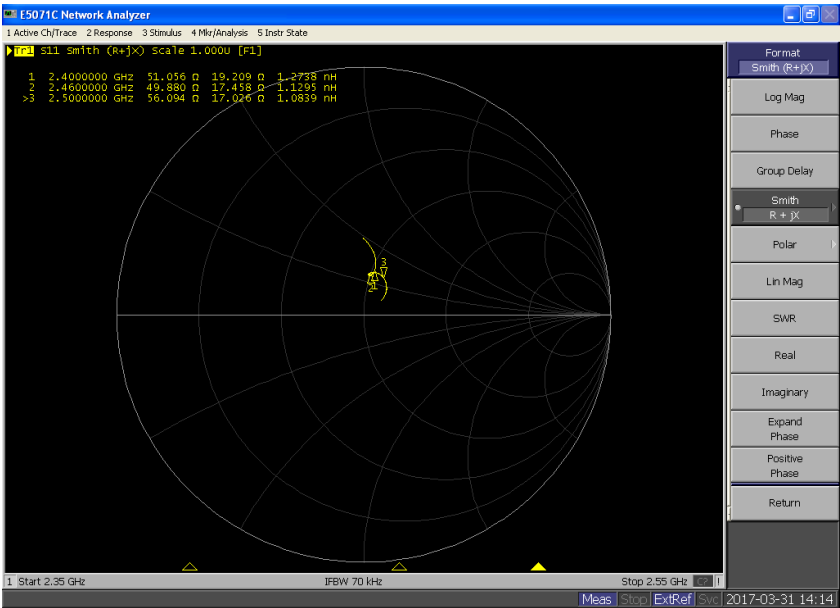


图 2 Smith 图

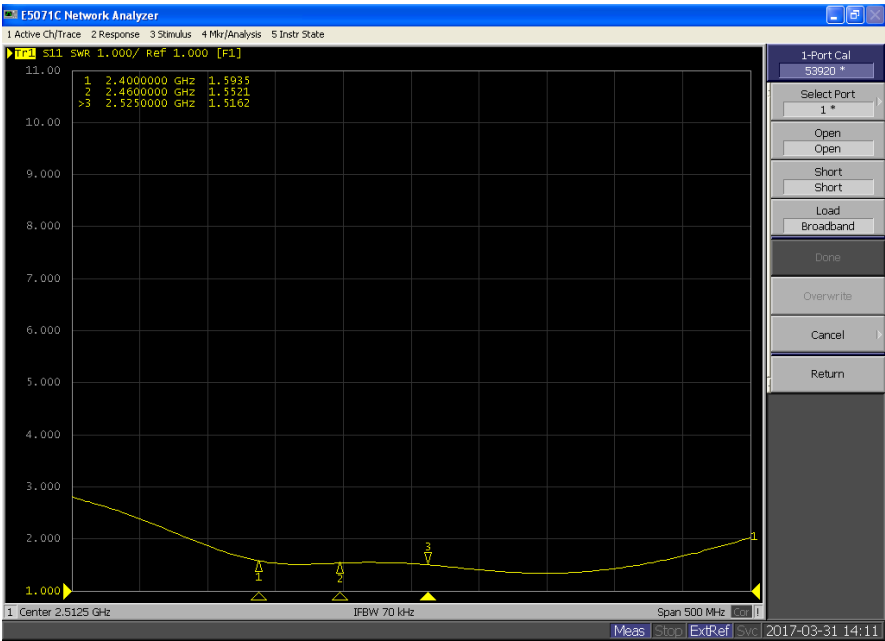
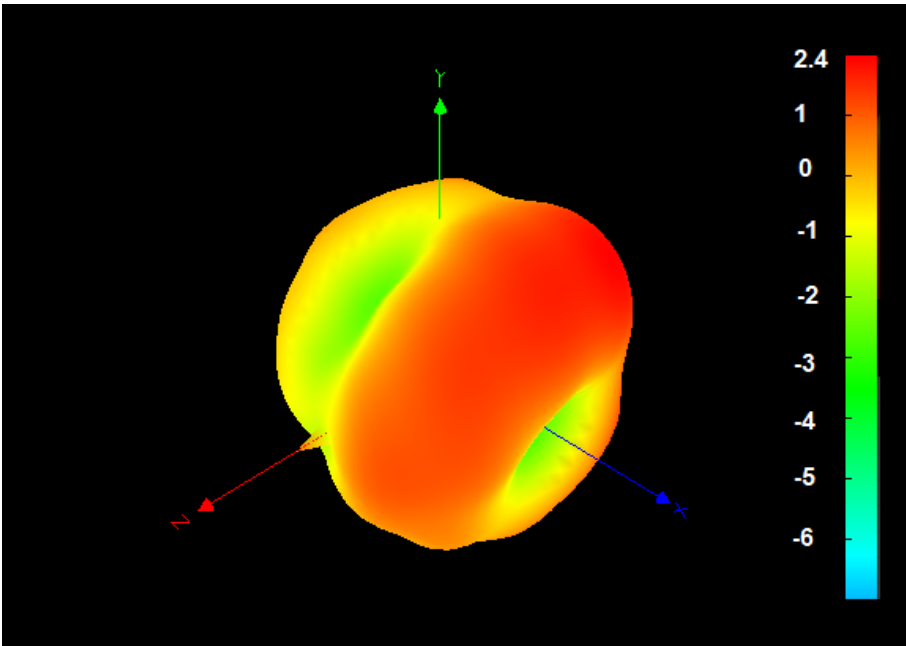


图 3 驻波比测试图

2460MHz



Frequency	Gain(max)
2400MHz	2dBi
2460MHz	2.4dBi
2525MHz	1dBi

5、备注

天线对 PCB 射频接地层的大小和产品的塑料外壳非常敏感。可将天线模拟为一个 LC 谐振器，当 L(电感)或 C(电容)增加时，该 LC 谐振器的谐振频率会下降。更大的射频接地层和塑料外壳会增大有效电容，从而降低谐振频率。使用时请注意根据实际安装情况调整匹配参数。

Antennas are highly sensitive to the size of the PCB RF ground layer and the plastic casing of the product. The antenna can be simulated as an LC resonator, and as L (inductance) or C (capacitance) increases, the resonant frequency of the LC resonator will decrease. A larger RF ground layer and plastic casing will increase the effective capacitance, thereby reducing the resonant frequency. Please adjust the matching parameters according to the actual installation situation when using.