

Antenna Specification

Revision History

Rev.	Description	Prepared by	Designed	Approved	Release Date
V1.0	Initial Release	Alex Sun	Roger Zhang	David Chen	2023-09-22

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1. 产品简单描述 (Product Brief Description)

PCB 天线是最低成本、中等尺寸，只要设计得当又能获得足够性能的天线；

Wiggle 天线占用空间更小，应用更灵活，广泛应用于无线键鼠产品当中。

(PCB antenna is the lowest cost, medium size antenna that can achieve sufficient performance as long as designed properly; Wiggle antennas take up less space and are more flexible in application, widely used in wireless keyboard and mouse products)

Applications:

*Bluetooth Home RF

*ISM band 2.4GHz applications

2. Dimensions

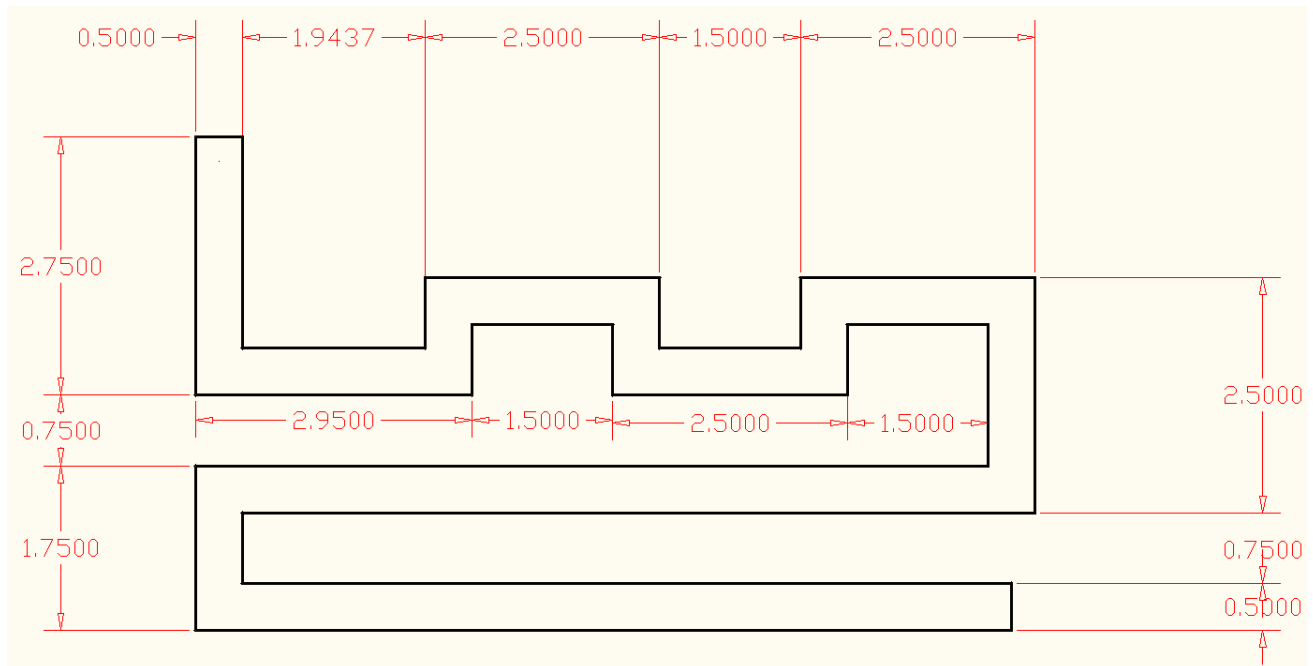
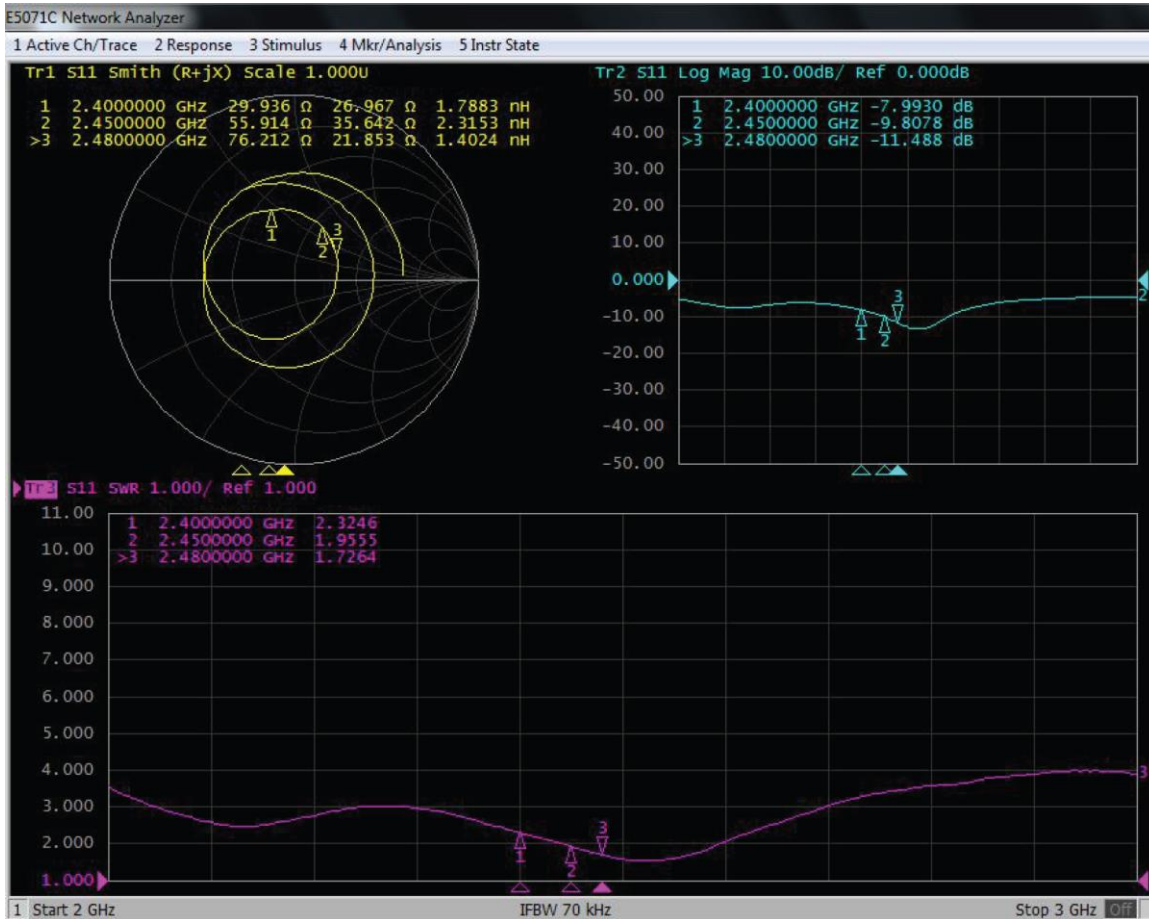


图 Normal Module Wiggle 天线 (Unit: mm)

3. Performance specification

天线性能 S11 如下，工作频段覆盖整个 2.4G ISM 频段:

(Antenna performance S11 is as follows, and the working frequency band covers the whole 2.4G ISM radio band:)



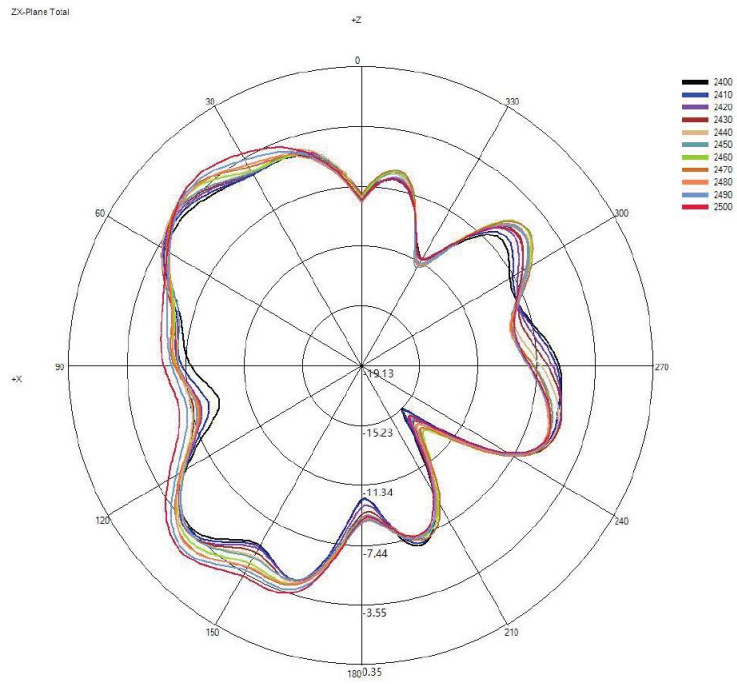
频率/MHz	2400	2450	2480
电压驻波比	2.3246	1.9555	1.7264

2D 和 3D 增益如下(2D and 3D Gains are as follows)

频率/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
最大增益/dBi	-0.29	-0.21	-0.17	-0.08	-0.06	-0.19	-0.04	0.04	-0.10	0.04	0.08
效率/%	27.29	28.26	29.10	29.91	30.22	29.68	31.01	31.73	30.28	31.44	32.33

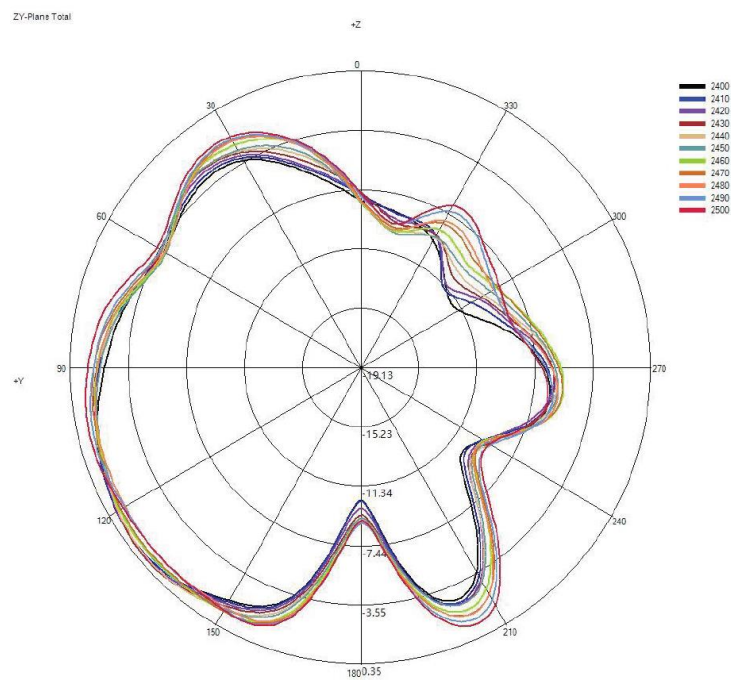
Gain Unit:dBi

(1) X-Z 面:



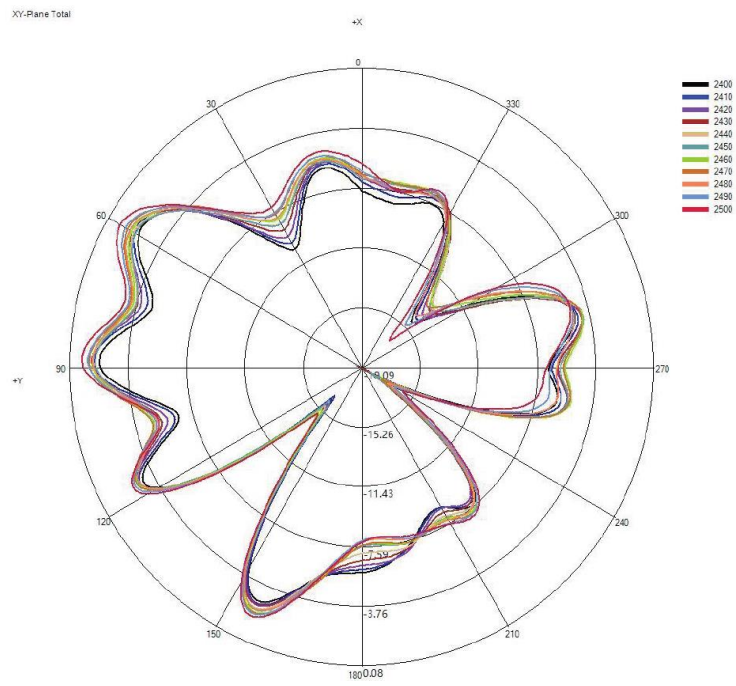
Gain Unit:dBi

(2) Y-Z 面:



Gain Unit:dBi

(3) X-Y 面:



4. Contact information

深圳市深普科技开发有限公司

Shenzhen SIPO Technology Development Co., Ltd.

深圳市宝安区 鹤洲社区 恒丰工业城 C6 栋 10 楼 1001

1001,floor 10,building C6,Hengfeng Industrial City, Hezhou community, Bao'an District, Shenzhen

Tel: 0755-83430235

Tax: 0755-85264921