
产品技术规格书

SPECIFICATION

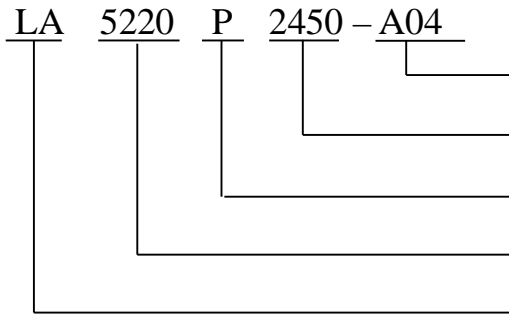
产品型号 PART NO: LA5220P2450-A04

1. 概述 INTRODUCTION

微波多层陶瓷天线 LA 系列产品设计用于 WLAN、WiFi、蓝牙、PHS，手机多频天线，FM 等小体积 SMD 片式设计。

Microwave Multi-Layer Ceramic Antenna LA series are designed to be used in WLAN、WiFi、Bluetooth、PHS、Multiple-band Mobile phone antenna, FM, etc and compact size SMD chip design.

2. 型号 Part Number



产品名称，编号 A04/Product Name: A04

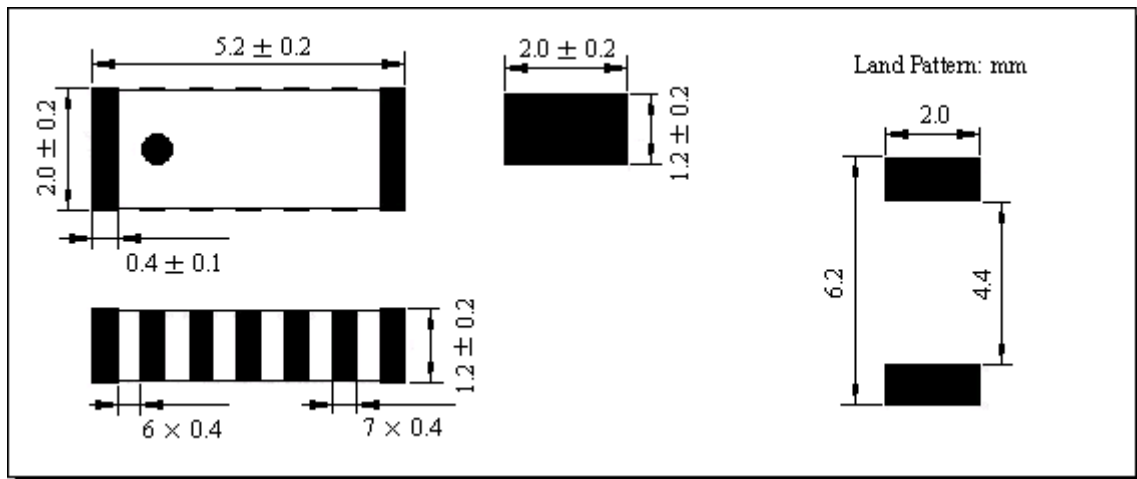
天线频率/ Antenna Frequency: 2450 MHz

产品设计结构 P 型/Planar Structure

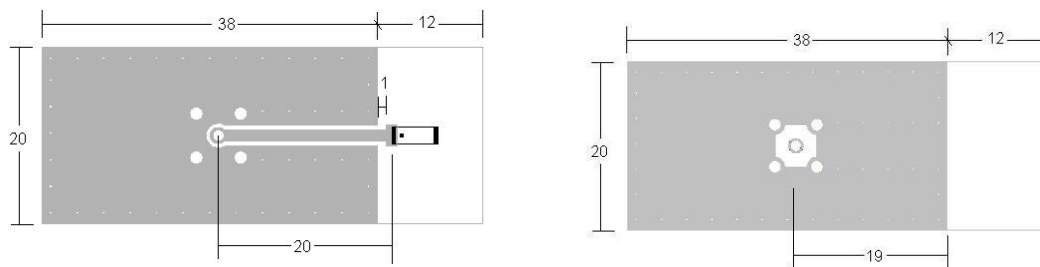
产品尺寸/Size: 5.2×2.0×1.2

多层结构天线/Multi-layer Antenna

3. 外型尺寸 Dimensions (Unit: mm)



4. 测试电路和匹配电路 Evaluation Board and Matching Circuits

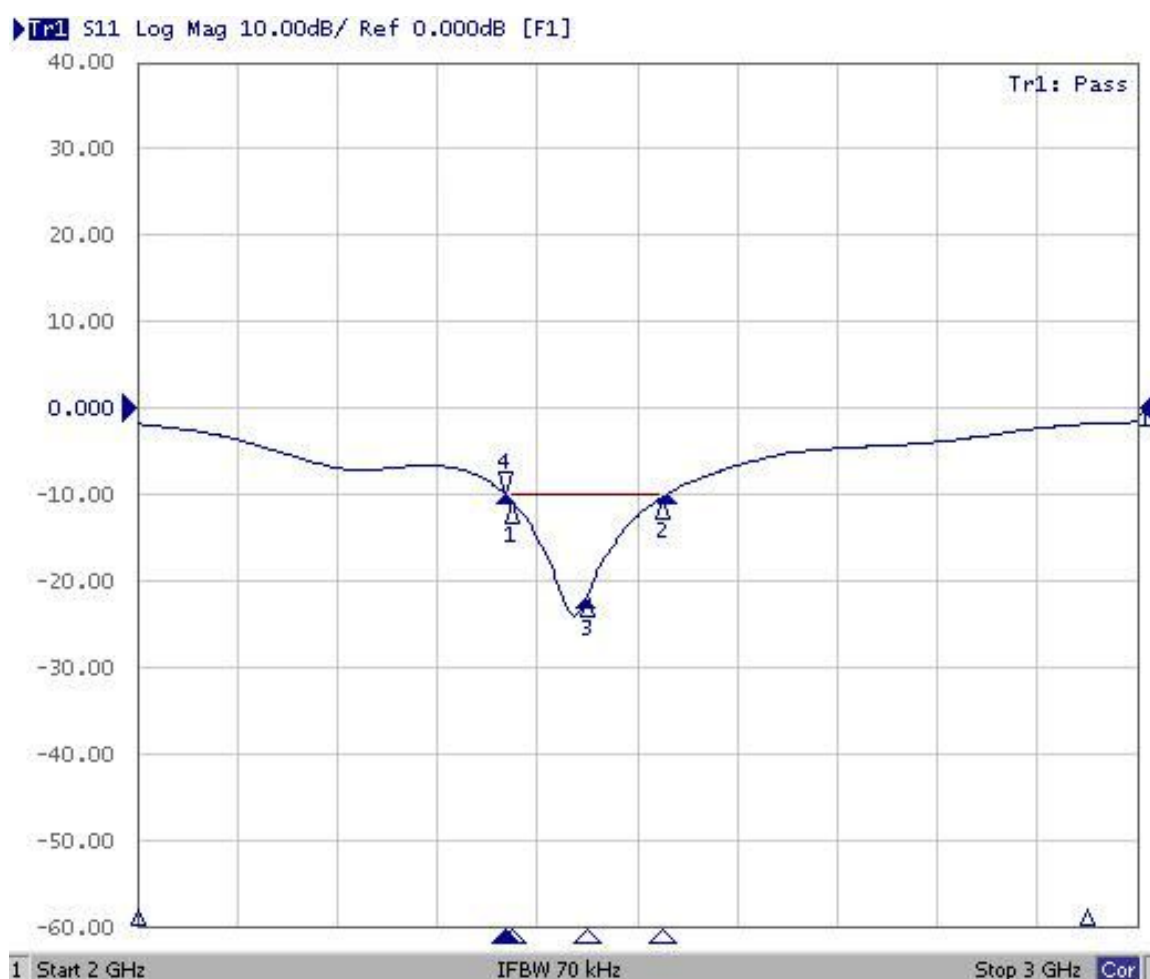


*以上测试电路仅用于测试天线本振频率，实际应用应根据不同 PCB 设计匹配电路来达到 2.45GHz 工作频率

5. 电气性能 *Electrical Characteristics*

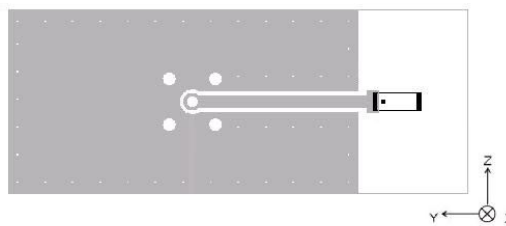
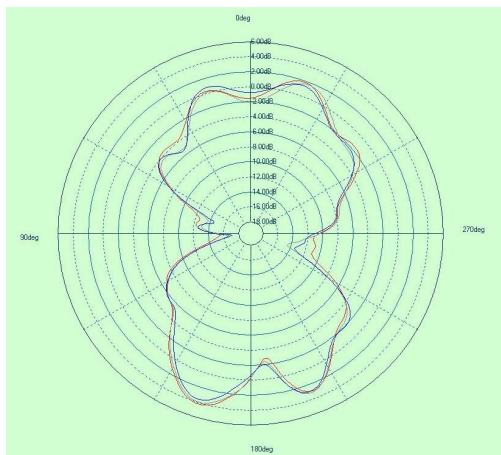
No.	Item (项目)	Specifications (特性)
5.1	Working Central Frequency 中心工作频率	2450 MHz
5.2	Band Width 通带宽度	±75 MHz (2375~2525MHz)
5.3	Gain 增益	0~2 dBi
5.4	V.S.W.R (in BW) 驻波比	≤2.0
5.5	Polarization 极化方式	Linear 线性
5.6	Azimuth Beam width 方位角	Omni-directional 全向
5.7	Impedance 阻抗	50 Ω

6. 特性曲线 *Characteristic curve*

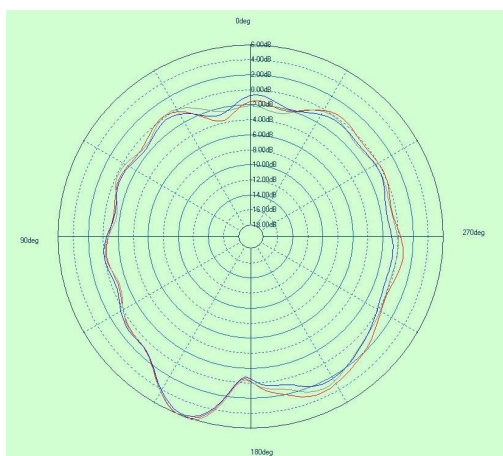


7. 方向图 Radiation Pattern

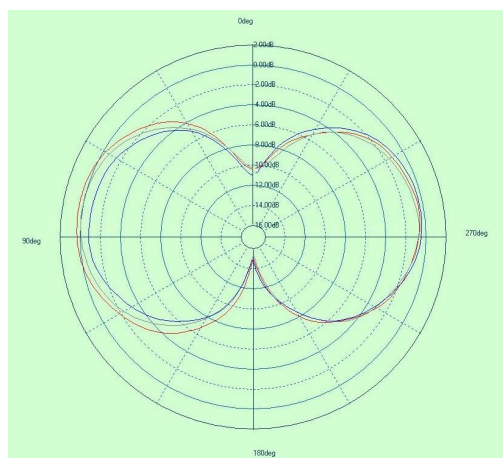
X-Z Plane



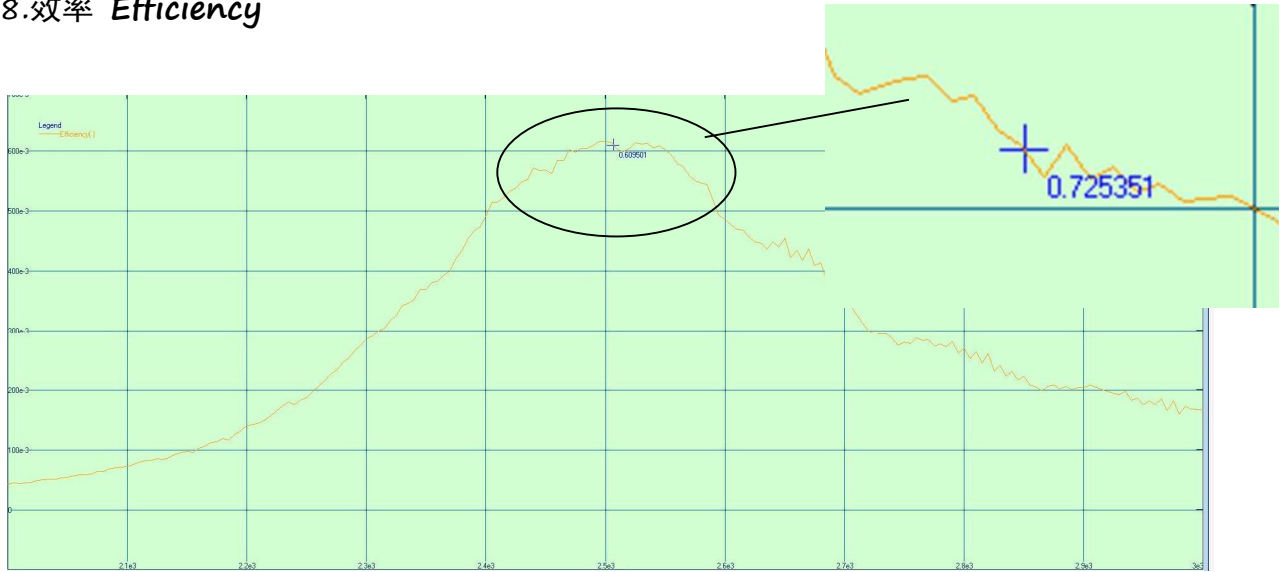
Y-Z Plane



X-Y Plane



8.效率 Efficiency



9 可靠性试验后允许误差 Post Dependability Tolerance

经可靠性试验后允许比起始读数偏差见下表

Post Dependability Tolerance (Refer to the table)

No.	Item (项目)	Post Dependability Tolerance (可靠性试验后允许附加误差)
9.1	Central Frequency 中心频率	± 25 MHz
9.2	Band Width 通带宽度	± 20 MHz
9.3	Gain 增益	± 0.2 dBi
9.4	V.S.W.R (in BW) 驻波比	± 0.5

10 可靠性试验 Dependability Test

基准条件: 温度范围 Temperature range $25 \pm 5^\circ\text{C}$

相对湿度范围 Relative Humidity range 55~75%RH

工作温度 Operating Temperature range $-40^\circ\text{C} \sim +85^\circ\text{C}$

贮藏温度 Storage Temperature range $-40^\circ\text{C} \sim +85^\circ\text{C}$

10.1 耐振动 Vibration Resist

在振动频率为 10~55Hz 振幅为 1.5mm 沿 X,Y,Z 方向各振动 2 小时后测试符合表 9.1~9.4 规定。

The device should satisfy the electrical characteristics specified in paragraph 9.1~9.4 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X, Y and Z directions.