

深圳市讯衍通信技术有限公司

Shenzhen Xunyan Communication Technology Co., Ltd.

Antenna Specification Document

SL13-Patch Antenna

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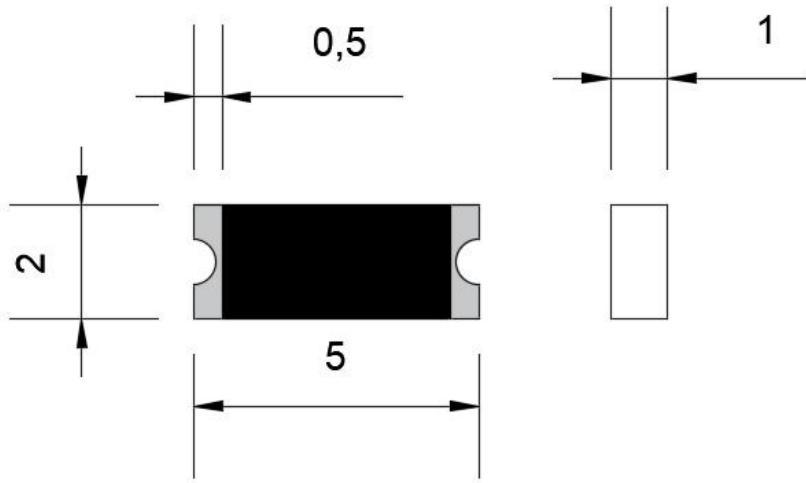
Feature

- 1. Small-sized SMD patch antenna with dimensions of only 5 x 2 x 1 mm。
- 2.Low energy loss, high antenna efficiency。
- 3.It exhibits high stability under varying temperature and humidity conditions。

Application

- 1.Antenna application in the 2400-2500 MHz frequency band。
- 2. Applications of protocols such as Bluetooth, WIFI, and ZIGBEE。
- 3. Smart home, security, IoT, wearable and other multi-scenario applications。

Size

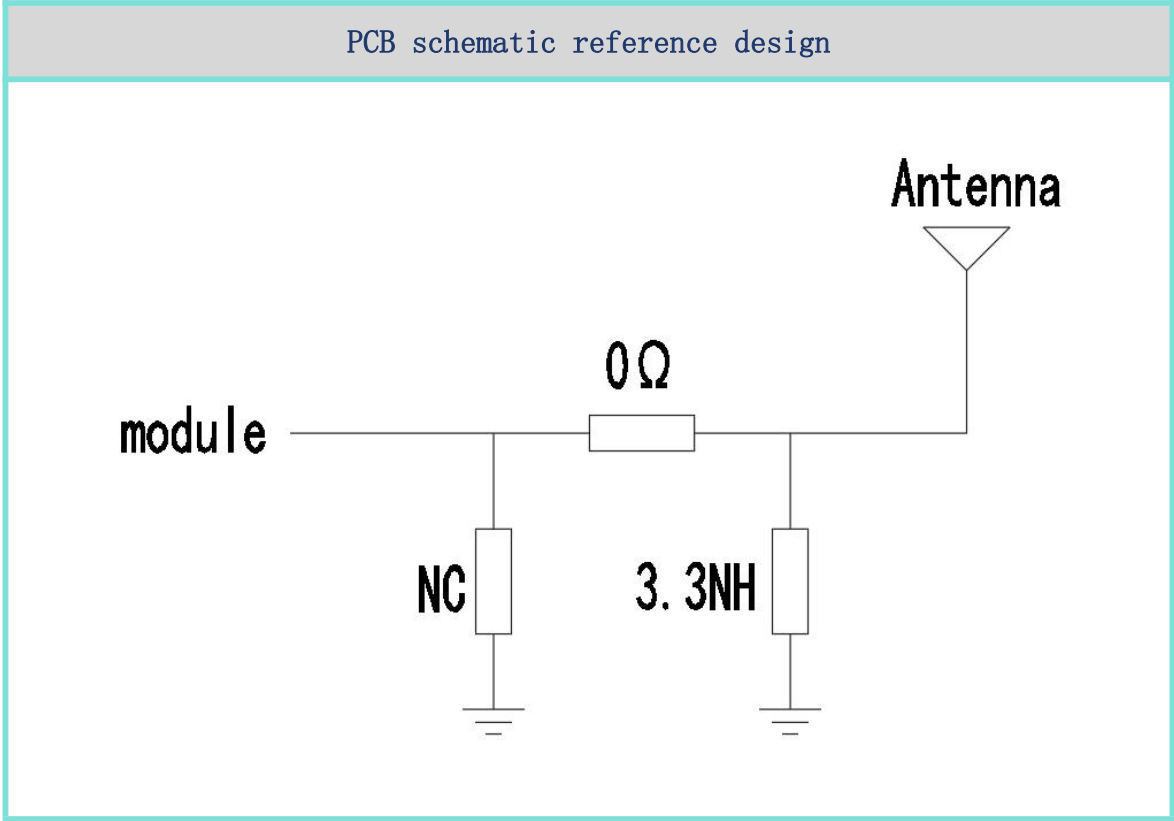
three-view drawing		Size (mm)
	L	5 ± 0.2
	W	2 ± 0.1
	T	1.0 ± 0.05

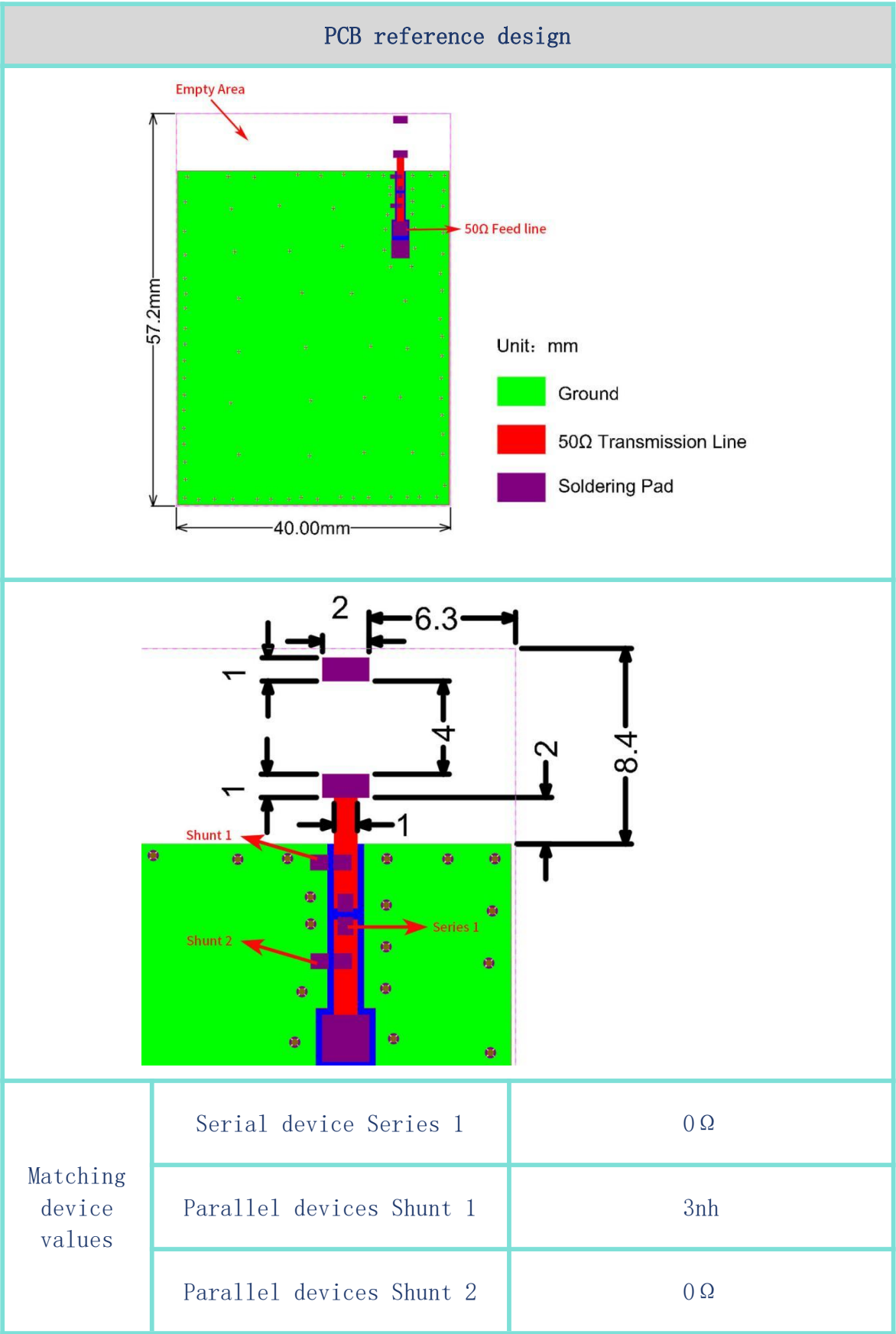
Electrical performance

Performance metrics	Specification range
频率范围 Frequency Range	2450±50MHZ
电压驻波比 VSWR	<2
输入阻抗 Input Impedance	50 Ω
增益 Gain	2
输入功率 Input Power	3W
带宽 Band Width	>100 MHz
工作温度 Working Temperature	-40℃~+85℃

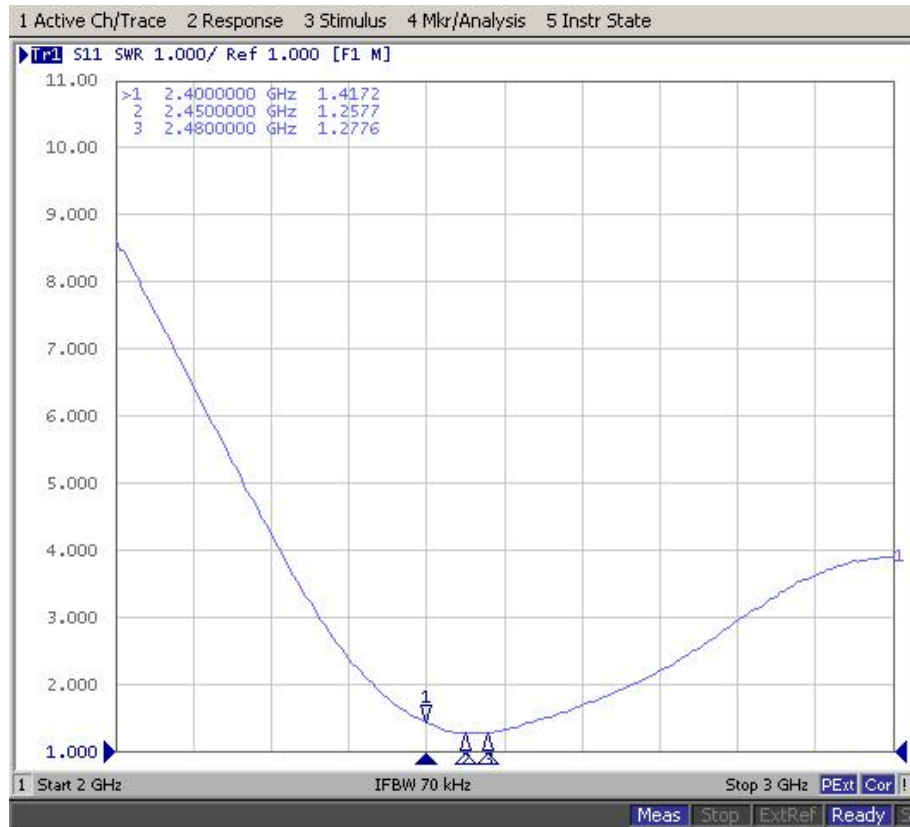
The working frequency of the antenna needs to be adjusted through impedance matching devices

Antenna pad and routing design

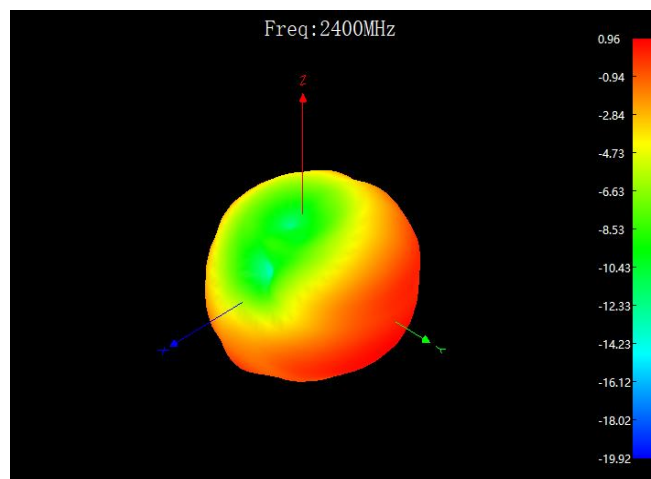
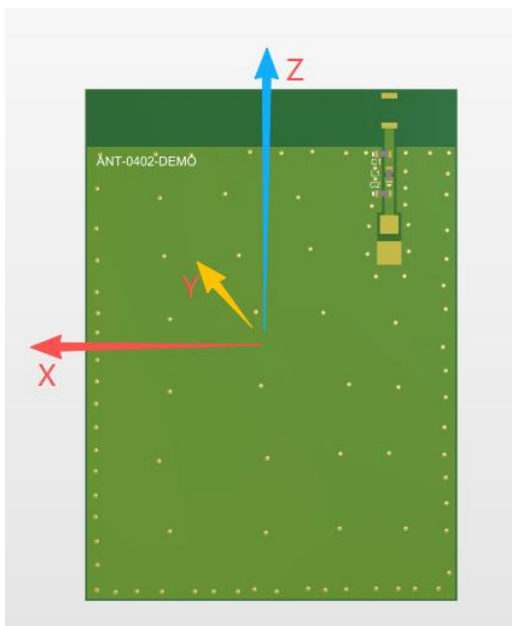


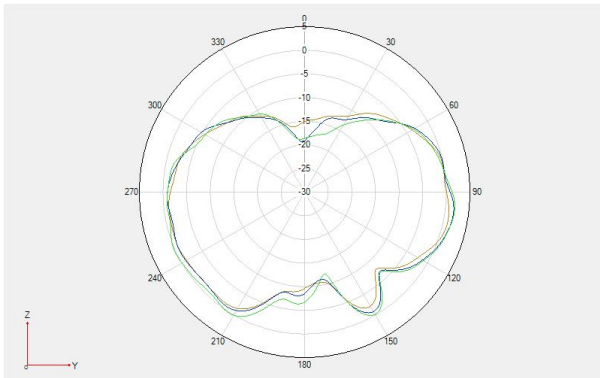
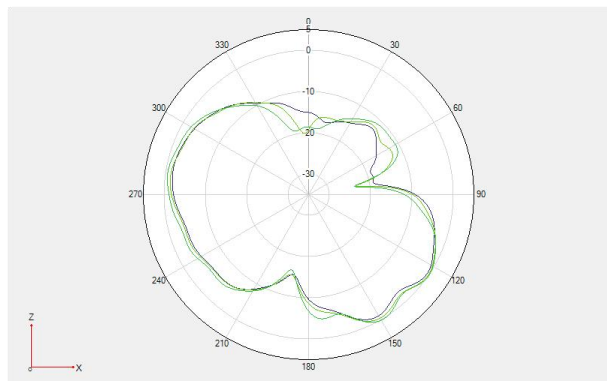
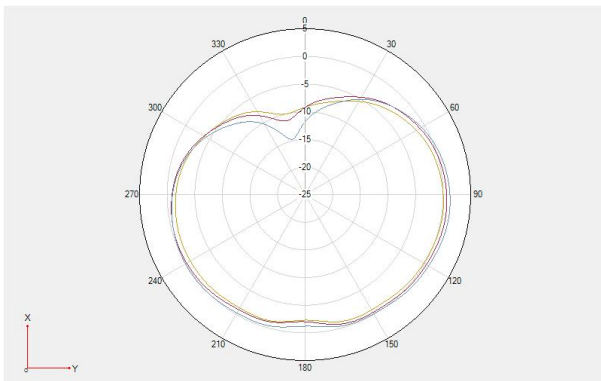
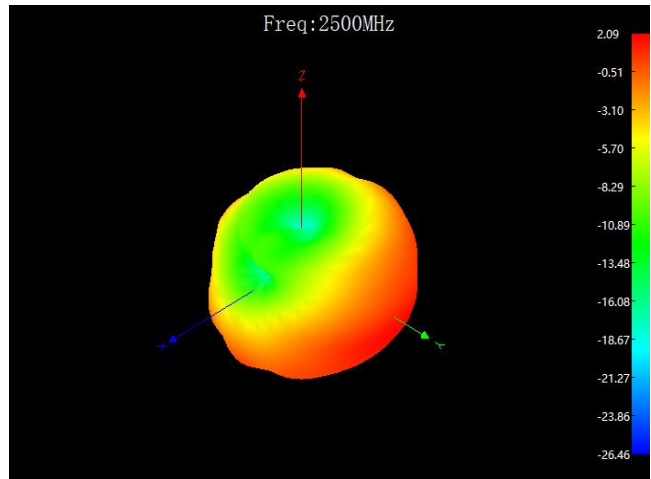
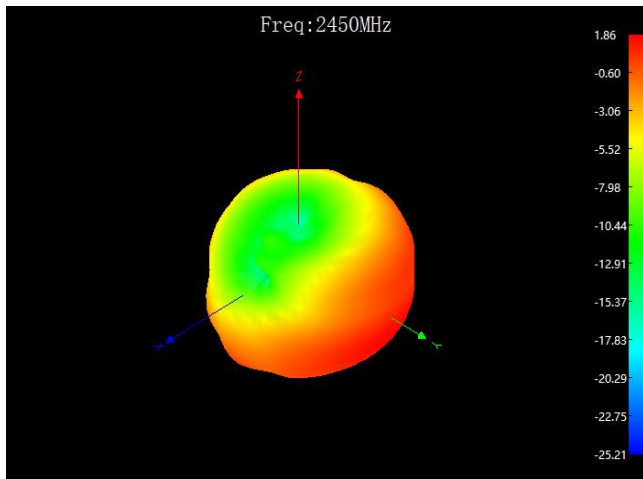


Antenna VSWR characteristics

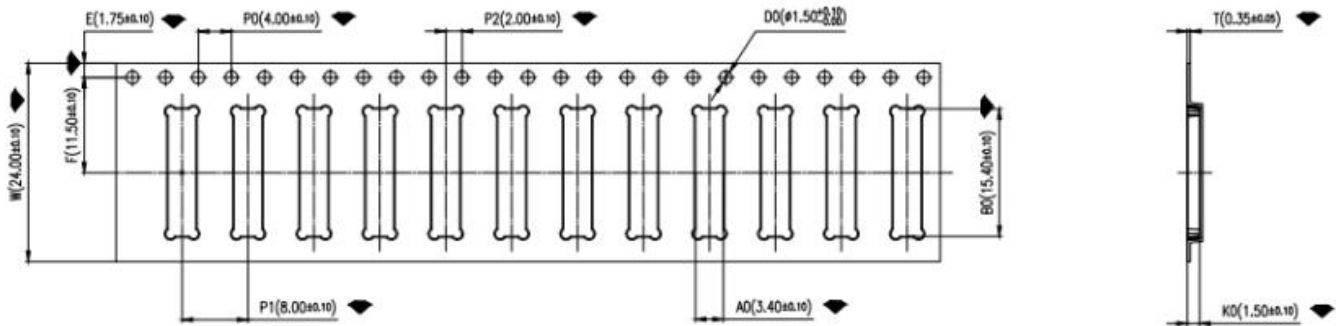


Antenna radiation pattern

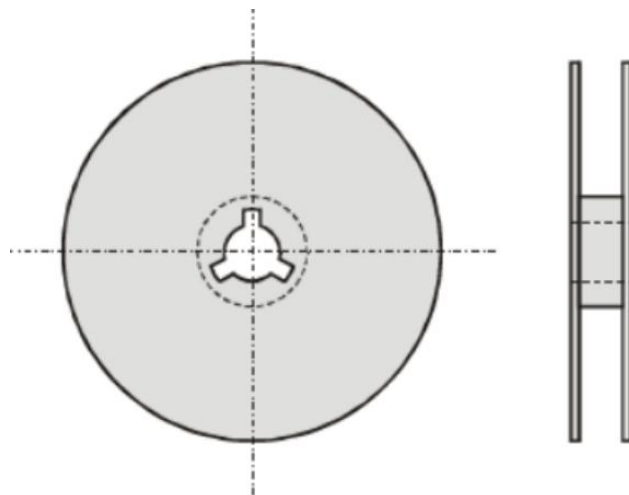




Packaging and ribbon specification demonstration:



Roll disk



Standard quantity: 2500 PCS/disk.

Storage environment

When storing products, the following conditions should be met:

Temperature: $-10\text{ }^{\circ}\text{C}\sim+40\text{ }^{\circ}\text{C}$

Humidity: 30% to 70% relative humidity

The product should not be placed in contact with corrosive gases such as sulfur. Chlorine gas or acid may cause electrode oxidation of the product

Causing a decrease in weldability.

The product should be placed in the toolbox and protected from moisture and dust.

The product should be stored in a warehouse and protected from heat, vibration, and direct sunlight.

The product should be stored under sealed conditions.