

# 专业天线服务商

深圳市飞敏科技有限公司  
SHENZHEN FEIMIN TECHNOLOGY CO., LTD.

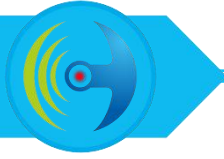
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# 天线测试报告

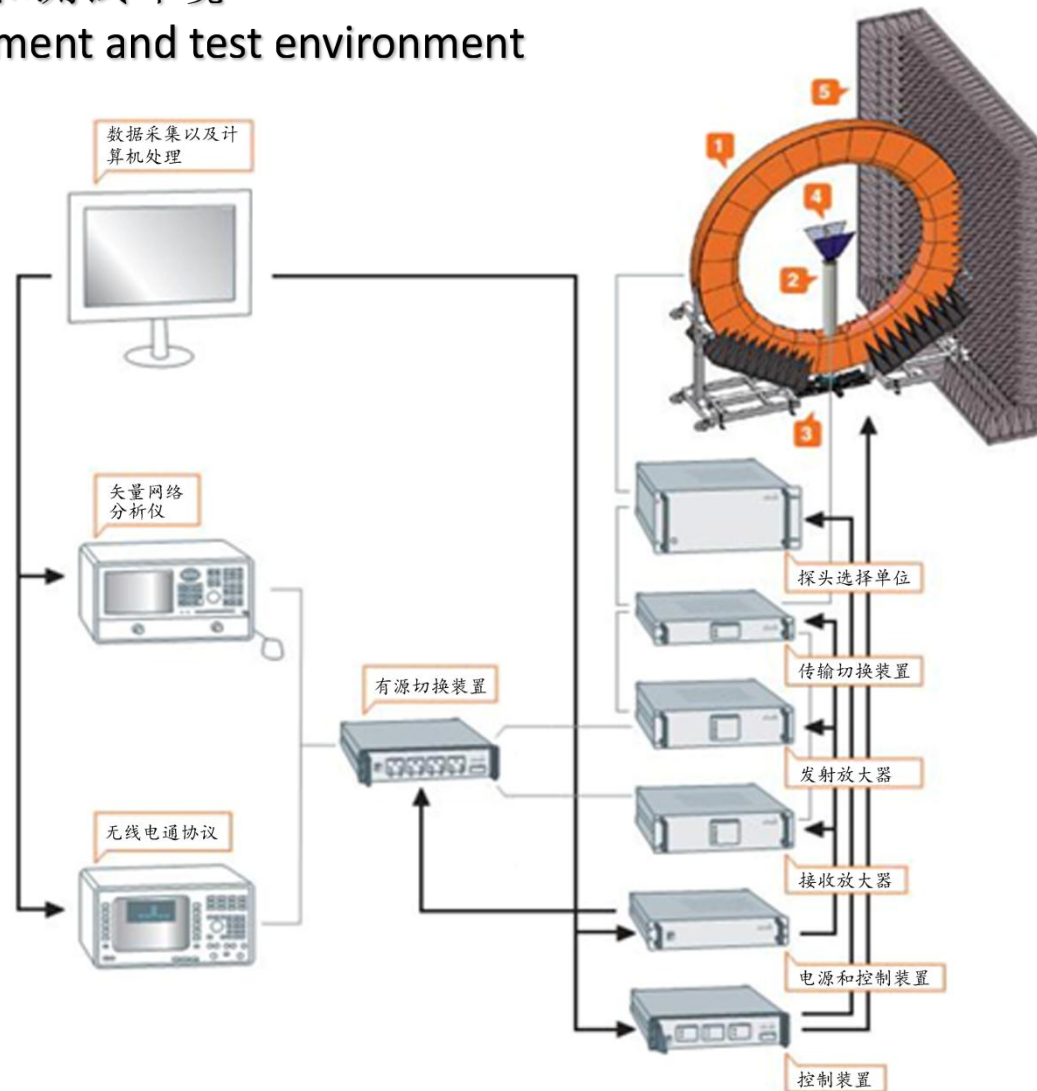
Antenna test report

|        |           |
|--------|-----------|
| 项目型号   | LS-L1     |
| 天线型号   |           |
| 测    试 | 许高富       |
| 审    核 | 朱记飞       |
| 日    期 | 2026-4-11 |



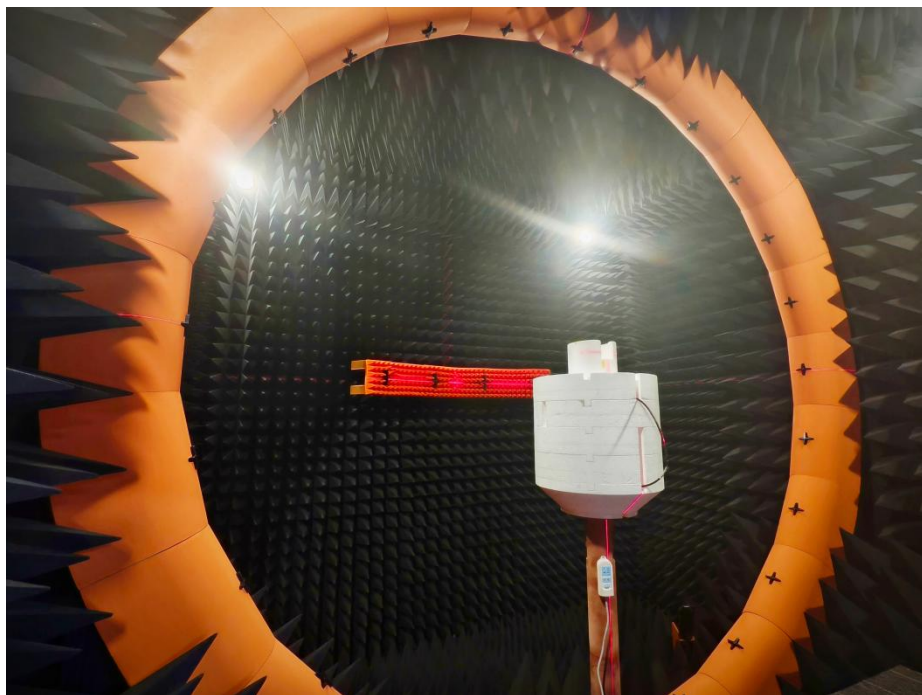
## 测试设备和测试环境

### Test equipment and test environment





## 测试设备 Test equipment



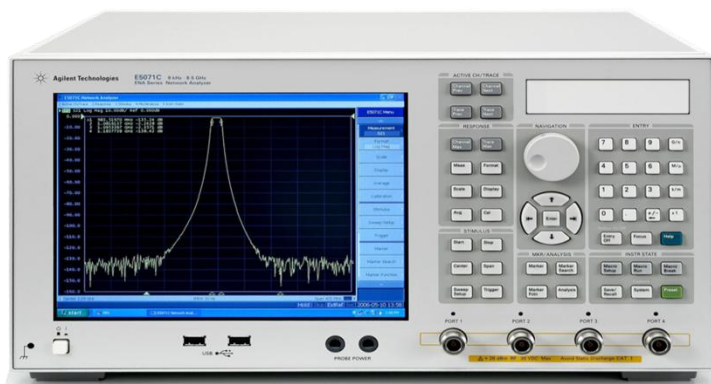
探头微波暗室  
Probe microwave anechoic chamber  
➤ 频率：0.4GHz至12GHz  
Frequency Range : 0.4GHz-12GHz

## 主要测试指标 Main test indicators

- ◆ 无源指标  
Passive indicators
- ◆ 增益  
Gain
- ◆ 效率  
Effectiveness
- ◆ 3D方向图  
3D pattern
  
- 有源指标  
Active indicator
- TRP总辐射功率  
TRP total radiated power
- TIS总接收灵敏度  
TIS total receiving sensitivity



## 测试设备 Test equipment



Agilent E5071C 矢量网络分析仪  
Agilent E5071C Vector network analyzer

- 频率: 300 kHz至8.5GHz  
Frequency Range : 300 kHz - 8.5GHz



R&S CMW500 宽带无线通信测试仪  
R&S CMW500 Broadband wireless communication tester

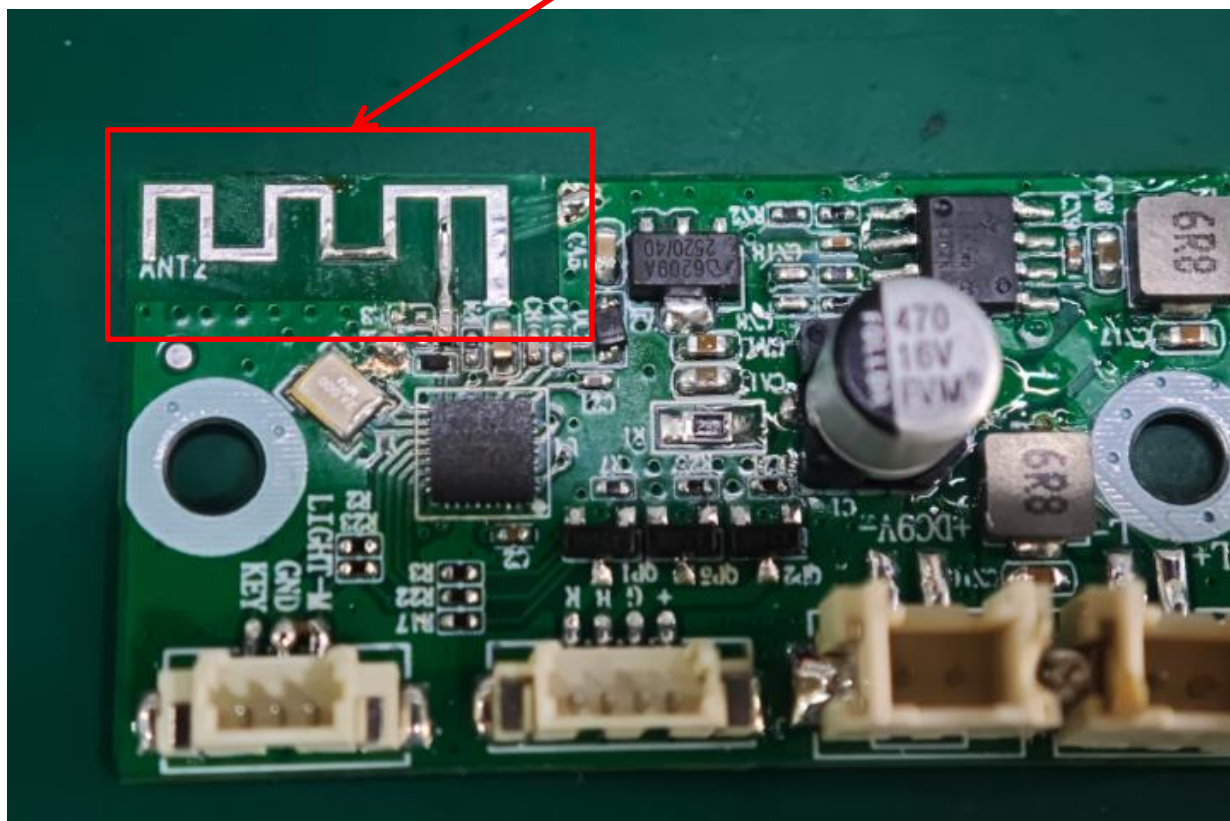
- GSM/3G/4G/e-MTC
- WIFI/ Bluetooth
- NB-IoT



天线安装位置

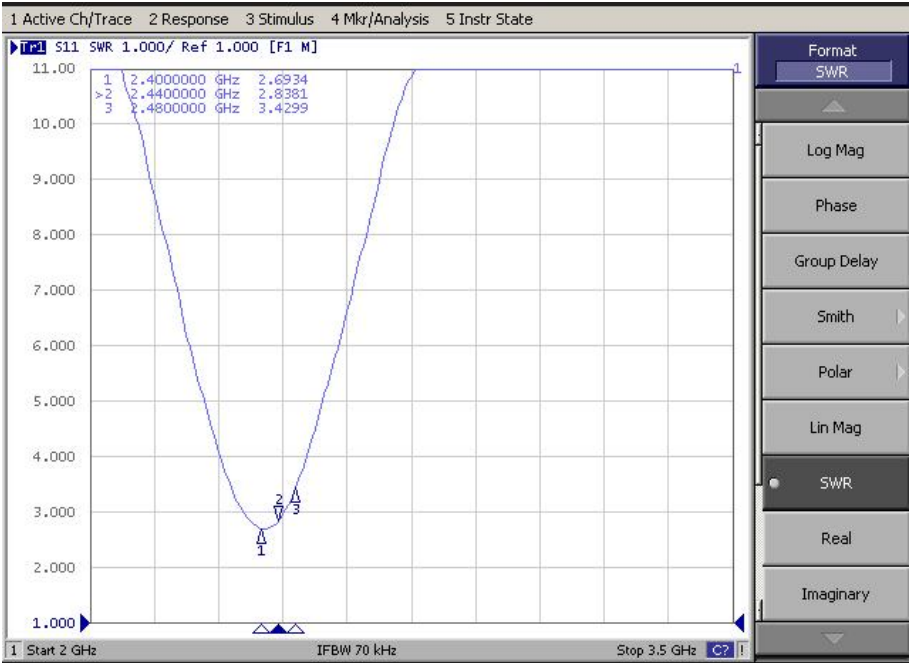
Passive antenna data

天线装配位置及方式

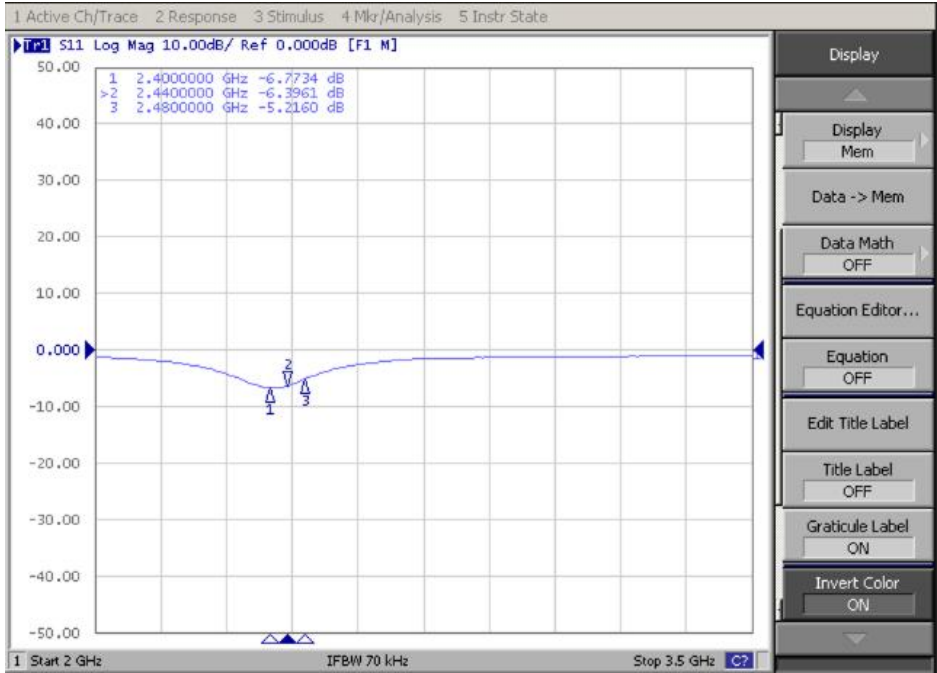




天线驻波比  
Antenna SWR

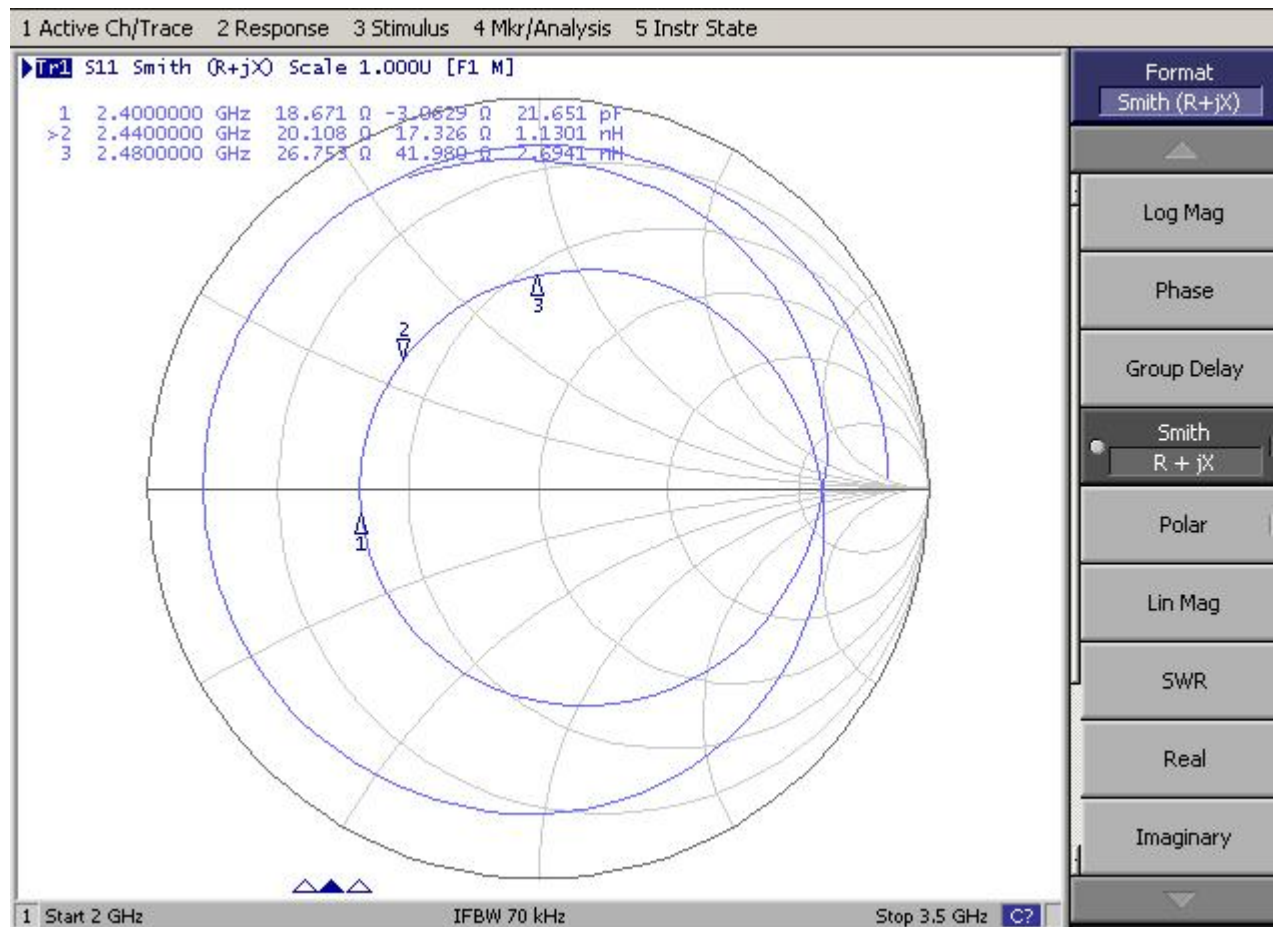


天线回波损耗  
Antenna Return loss





# 史密斯圆图 Smith



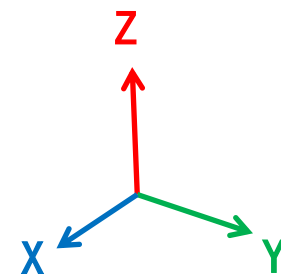
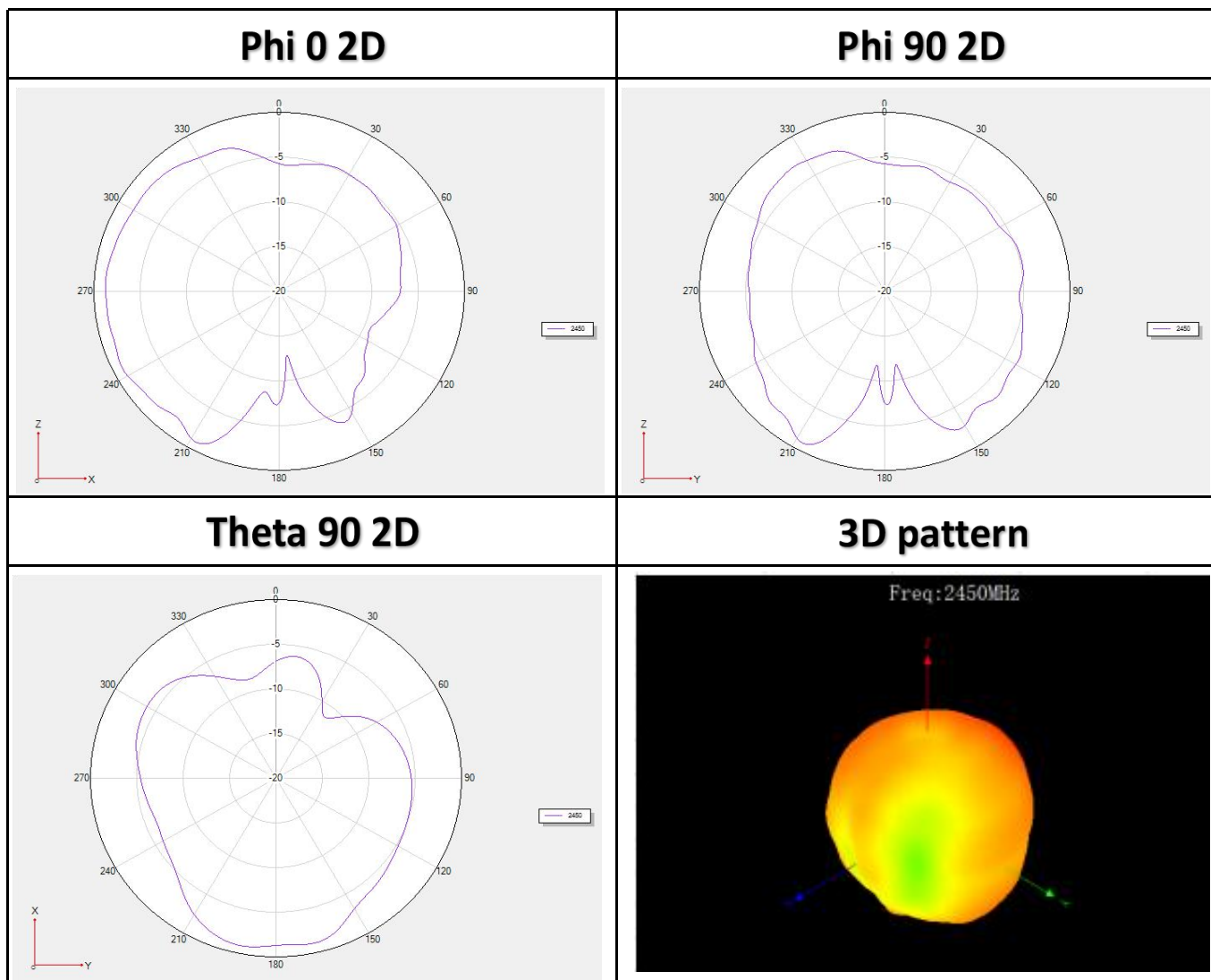


天线增益与效率  
Antenna gain and efficiency

| Freq(MHz) | Efficiency (%) | Gain(dBi) |
|-----------|----------------|-----------|
| 2400      | 28.59          | 0.22      |
| 2410      | 28.75          | 0.24      |
| 2420      | 29.65          | 0.20      |
| 2430      | 31.15          | 0.51      |
| 2440      | 33.45          | 0.46      |
| 2450      | 32.19          | 0.48      |
| 2460      | 31.67          | 0.46      |
| 2470      | 31.15          | 0.62      |
| 2480      | 29.48          | 0.42      |
| 2490      | 27.88          | 0.39      |
| 2500      | 26.84          | 0.25      |

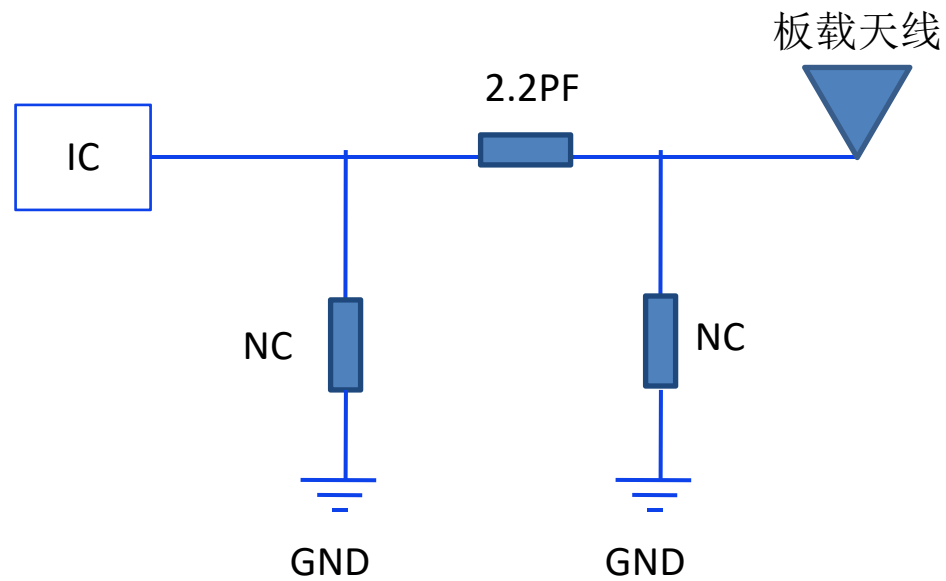


# 天线辐射方向图 Antenna Radiation Pattern





# 天线匹配参数 Antenna matching parameters



**Thanks for your support!**  
**感谢您的支持!**

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