

SMD CERAMIC ANTENNA

Data Sheet

CS-2450-31-L

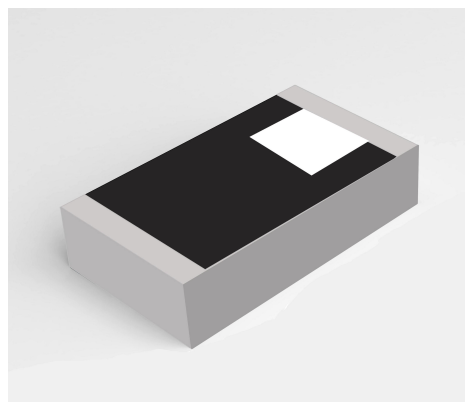
For 2400-2450MHz

3.2x1.6mm [EIA1206]

SHENZHEN CSCURVE ANTENNA TECHNOLOGY CO., LTD.

特征 Feature

- 重量轻, 结构紧凑
Light weight, compact
- 宽带大, 低成本
Wide bandwidth, low cost
- 高增益内置天线
Built-in antenna with high gain

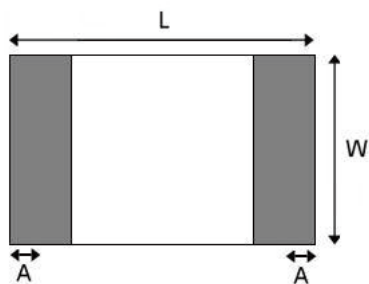


应用 Application

- 蓝牙技术Bluetooth
2.4GHz频段 IEEE802.11g/b
- 齐格比系统
Zigbee systems
- 其它etc...

形状和尺寸(单位: mm)

Shapes And Dimensions Dimensions in mm



L	W	A	H
3.10±0.10	1.55±0.10	0.40±0.20	0.55±0.1

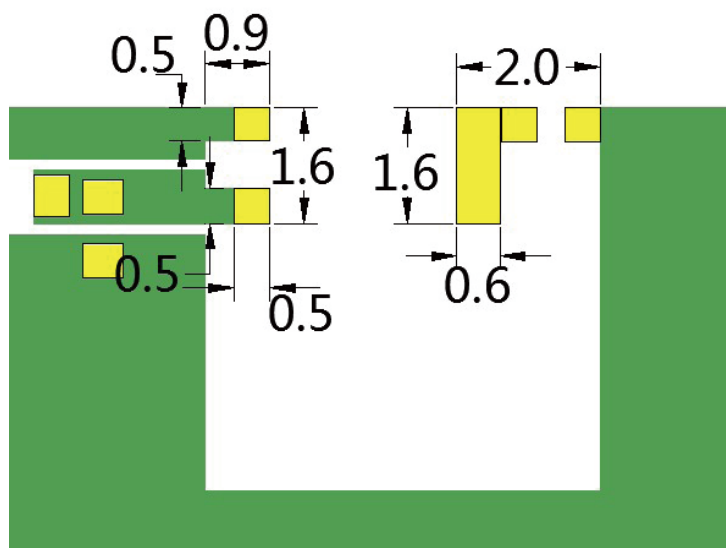


电气特性 Electrical Characteristics per line(TA= 25°C)

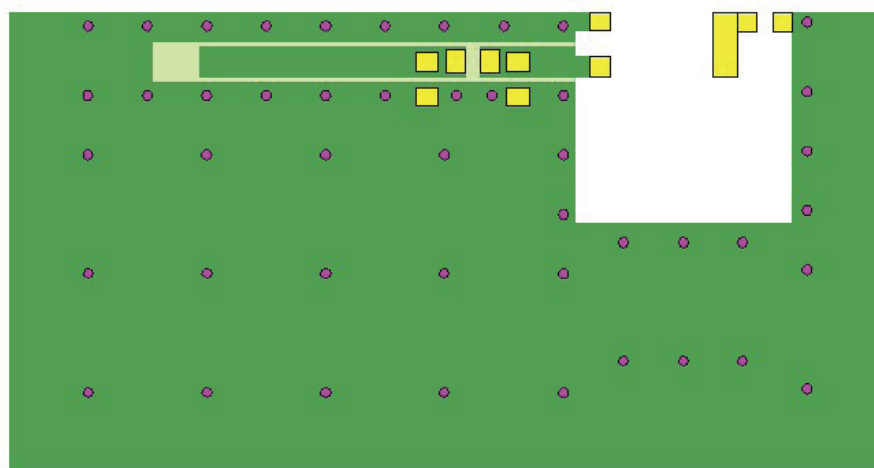
参数Parameter	规格Specification	单位Units
频带 Frequency Band	2400~2483	MHz
极化 Polarization	线极化	
阻抗 Impedance	50	Ω

■ 编码 Part Numbering System

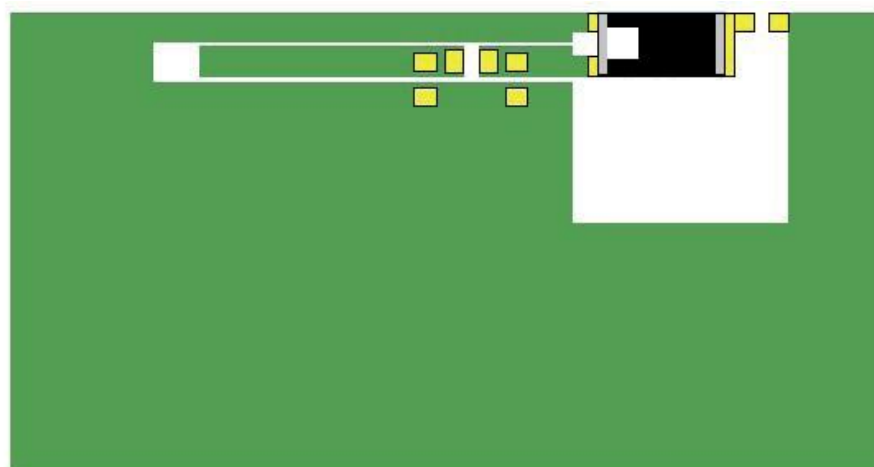
CS - 2450 - 31 - L
 Material Frequency Size Type



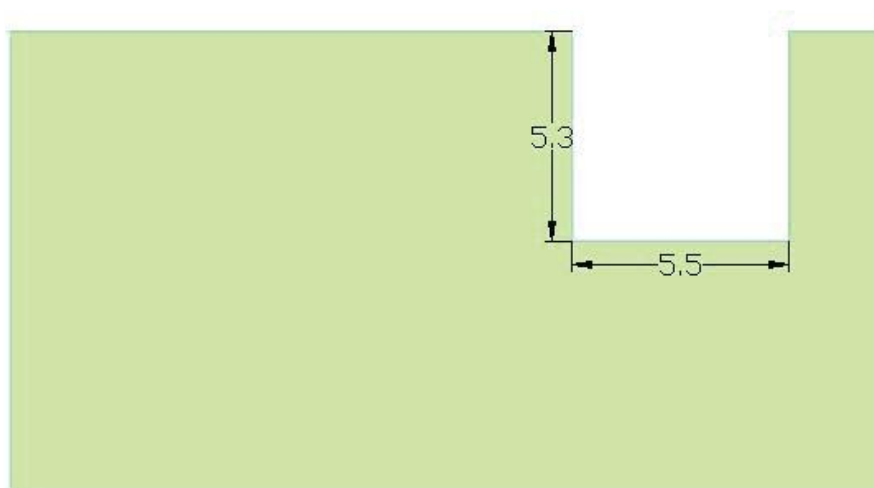
■ 评价板 Evaluation Board



- 天线
- PAD
- 底层铺铜
- 顶层铺铜
- 打孔



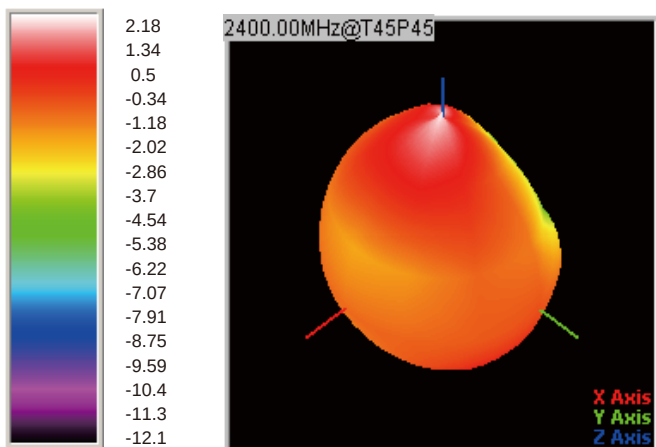
- 天线
- PAD
- 底层铺铜
- 顶层铺铜



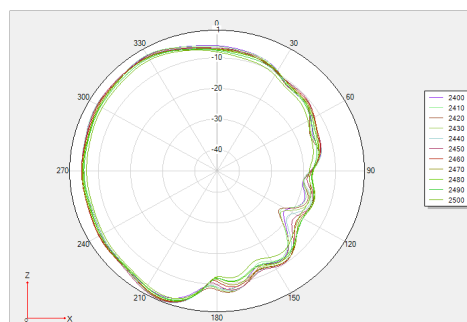
■ 辐射模式 Radiation Patterns

□ 2.4GHz WLAN BAND

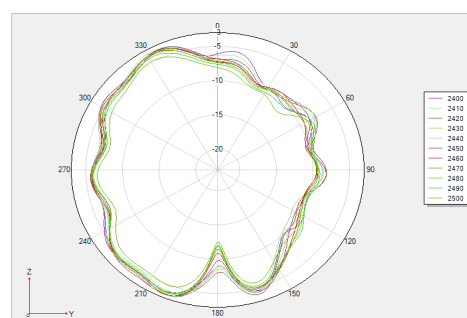
◎ 3D Gain Pattern (2400 MHz)



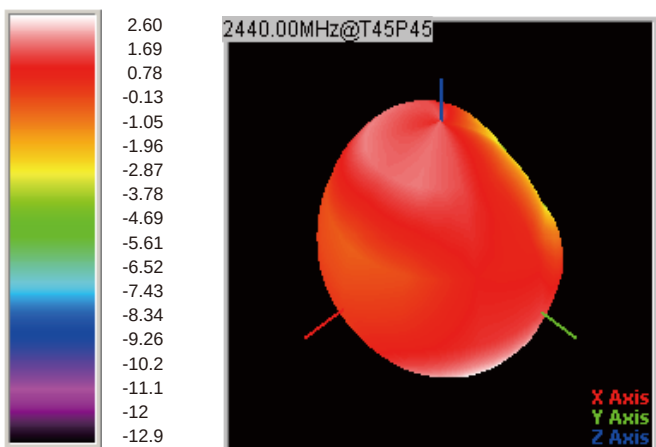
◎ 2D Gain Pattern Phi 0



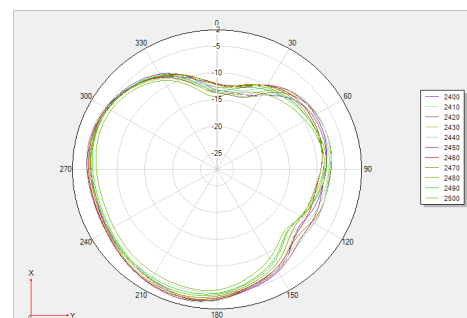
◎ 2D Gain Pattern Phi 90



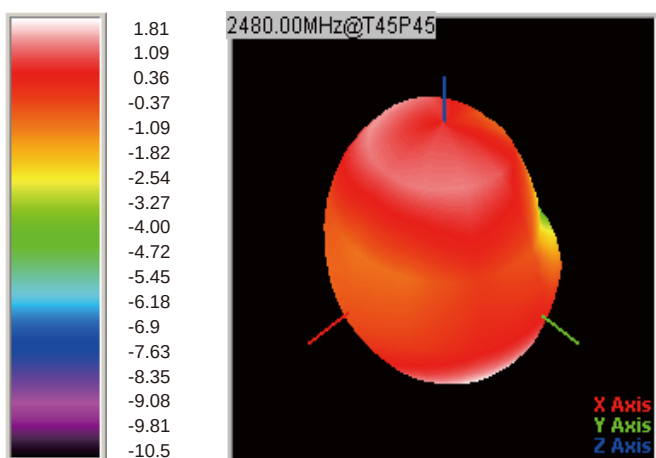
◎ 3D Gain Pattern (2440 MHz)



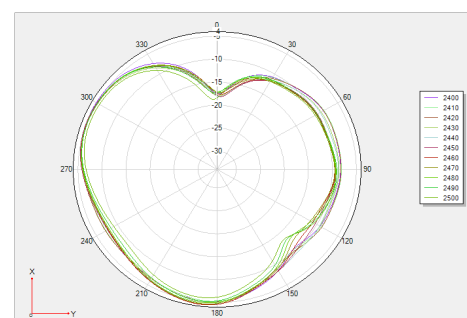
◎ 2D Gain Pattern Theta 60



◎ 3D Gain Pattern (2480 MHz)

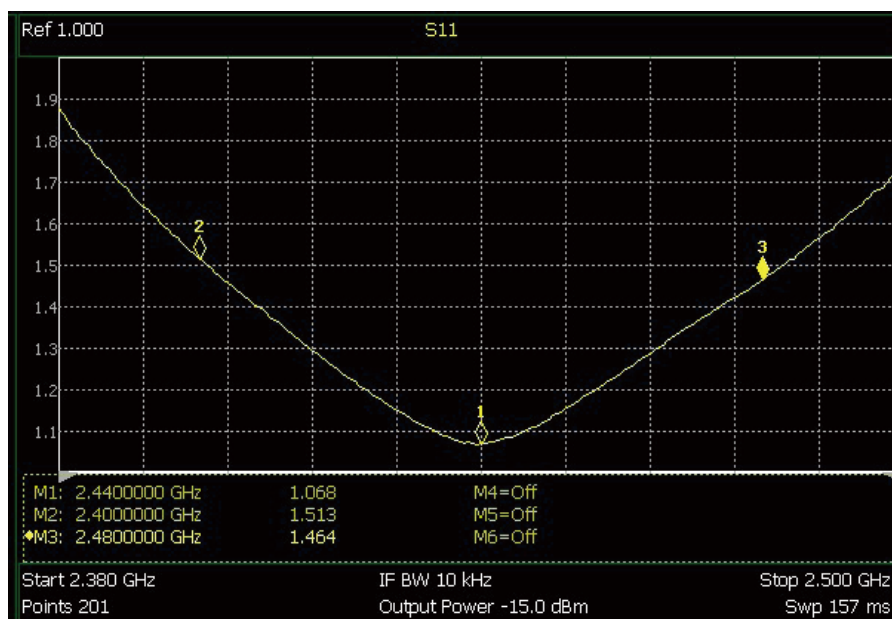
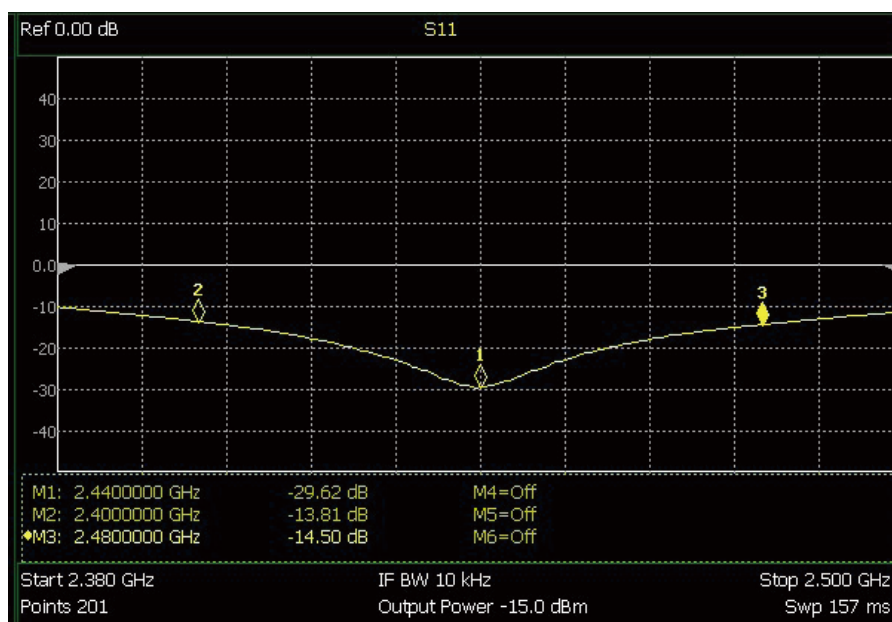


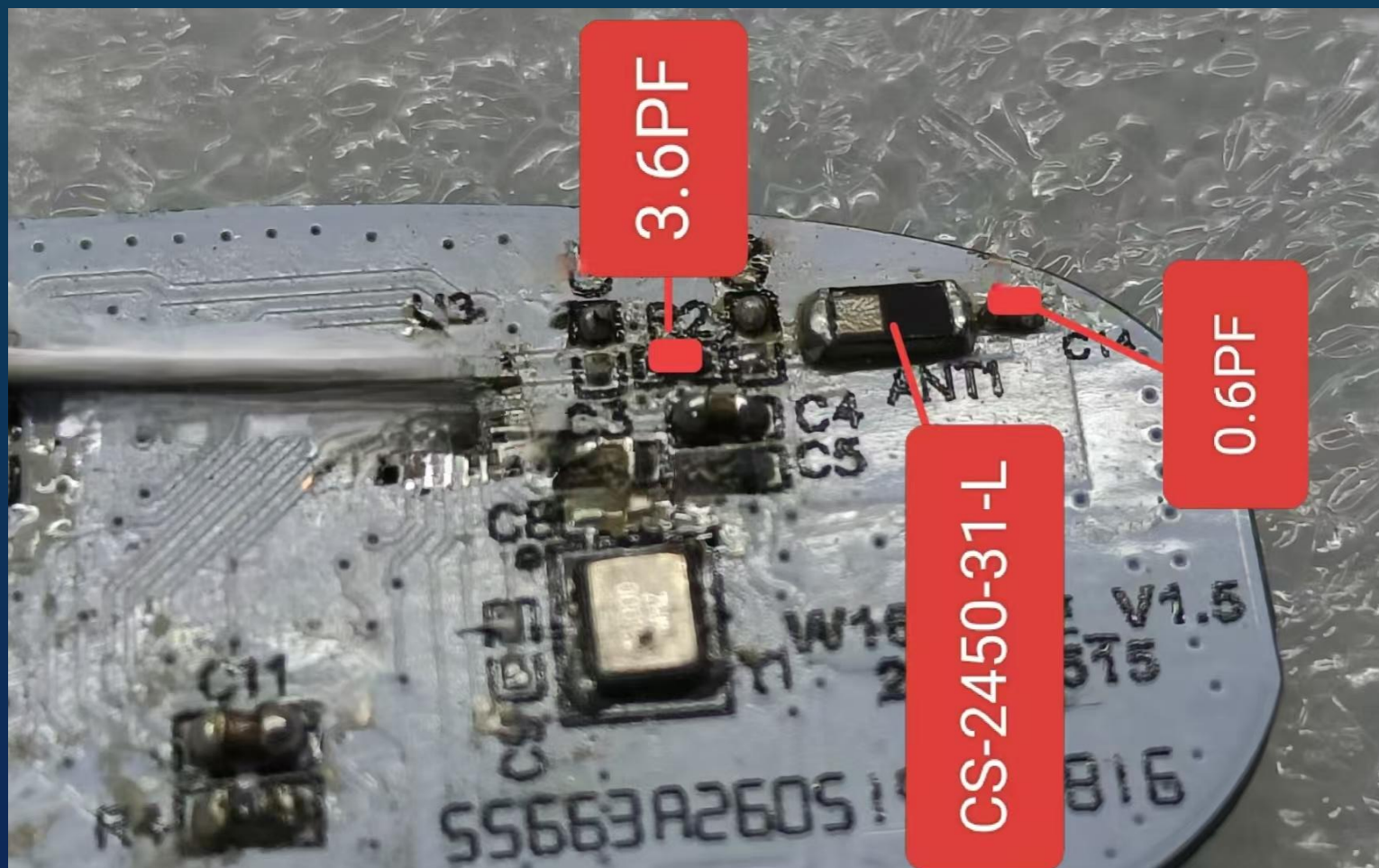
◎ 2D Gain Pattern Theta 90



■ 频率特性 Frequency Characteristics

□ EFFICIENCY AND VSWR





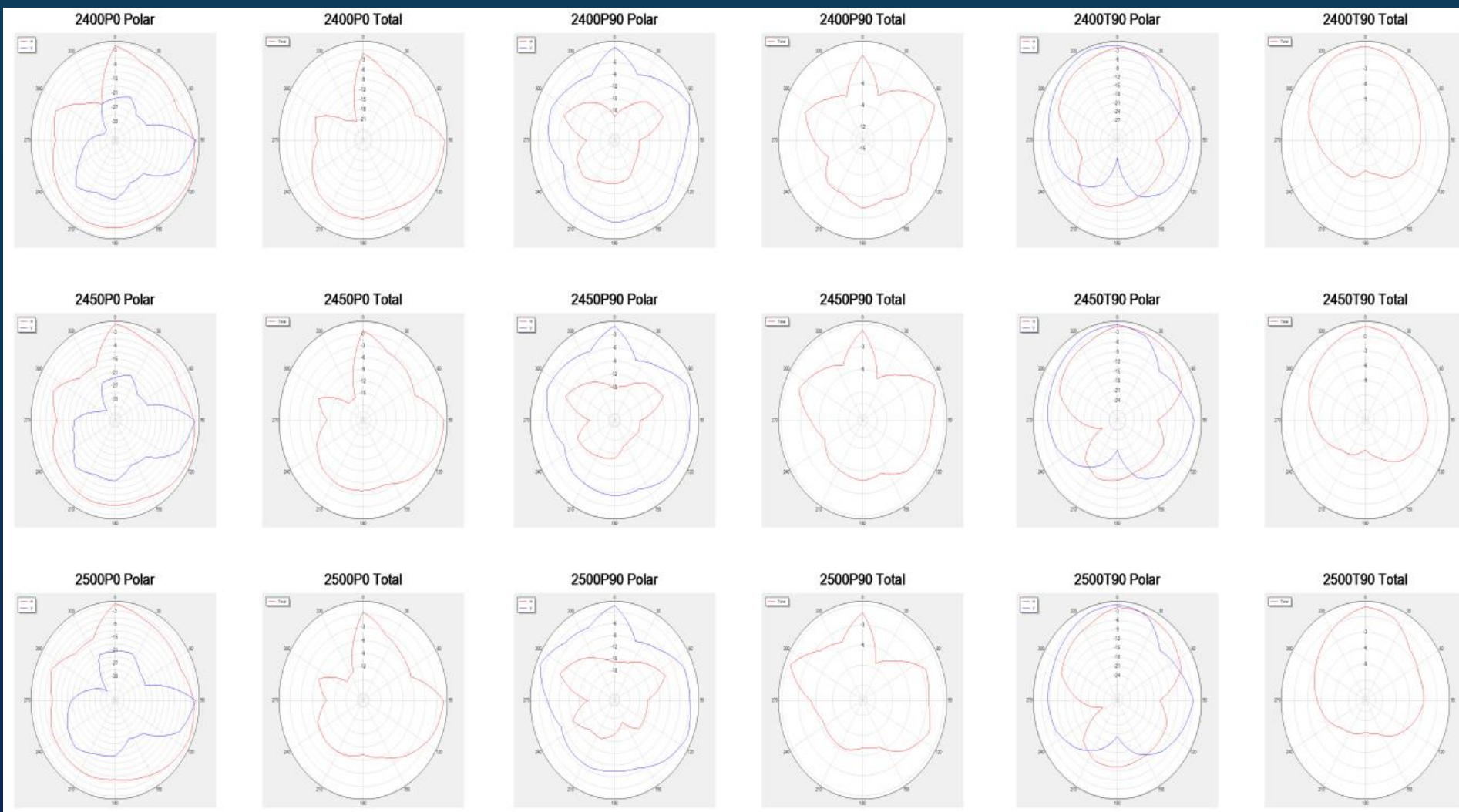
调试S参数曲线



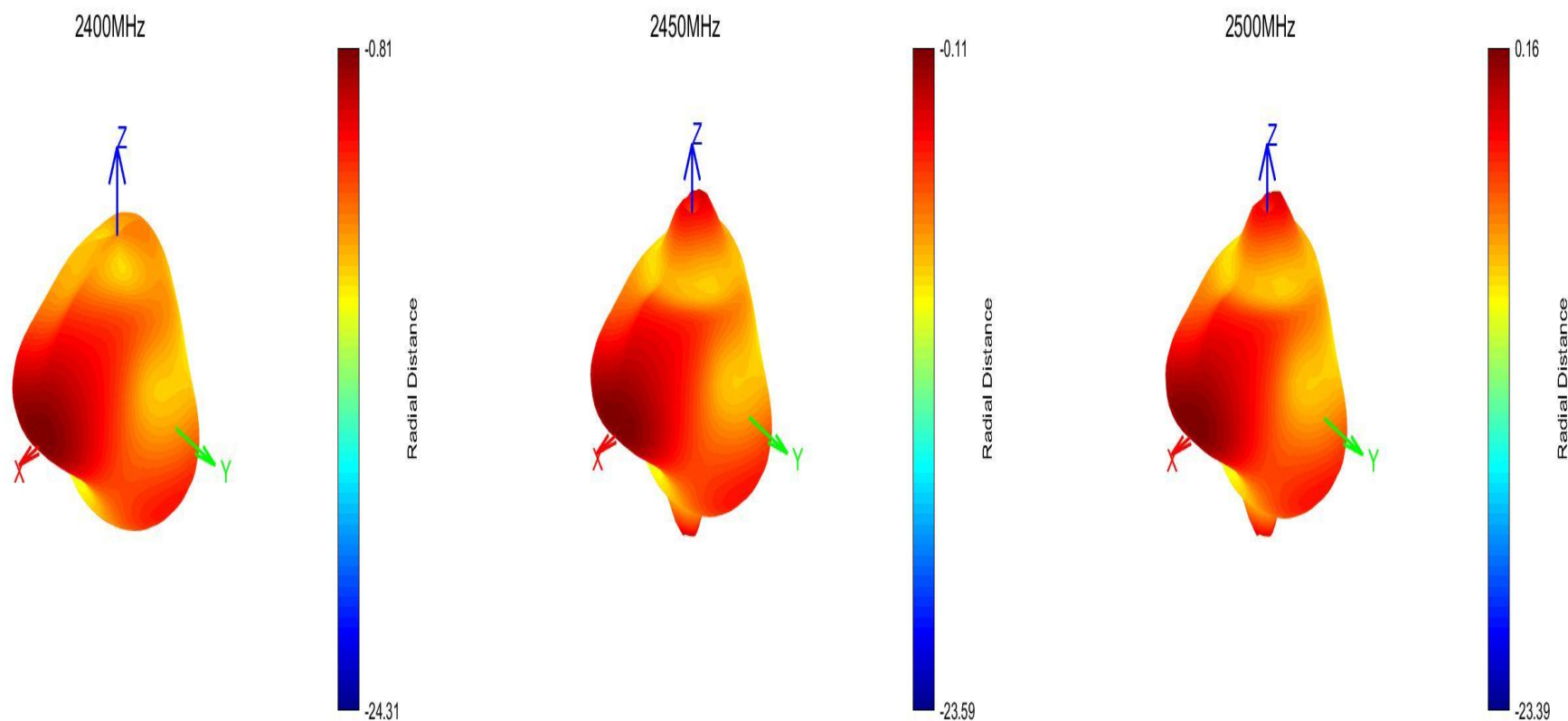
无源测试数据

Frequency	Percen	Gain
2400	34.822261%	-0.8148
2410	36.97185%	-0.60921
2420	37.99923%	-0.60799
2430	43.76317%	-0.06049
2440	44.25324%	-0.00093
2450	43.3588%	-0.10557
2460	43.91791%	-0.02322
2470	42.82072%	-0.06998
2480	43.24535%	0.0342
2490	42.23256%	0.29294
2500	37.68813%	0.15935

2D Radiation pattern

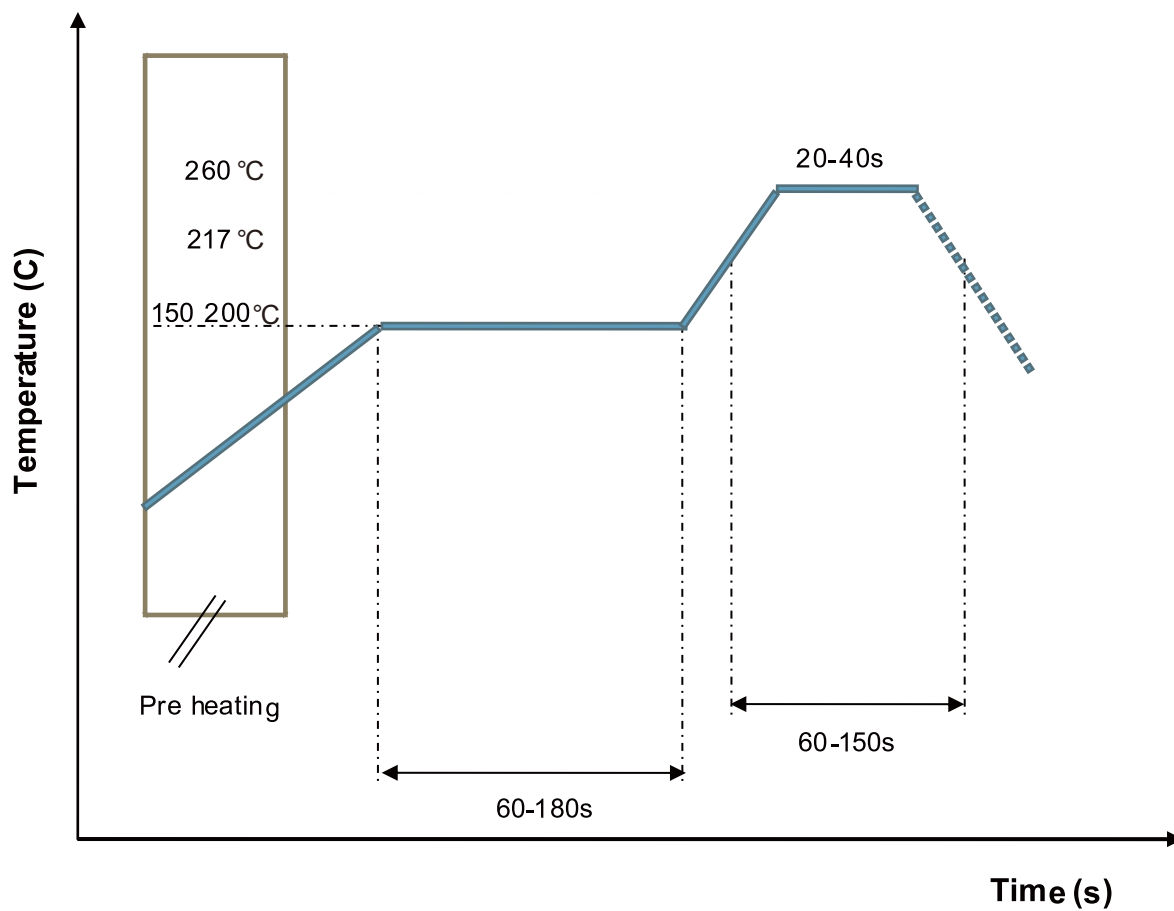


3D Radiation pattern



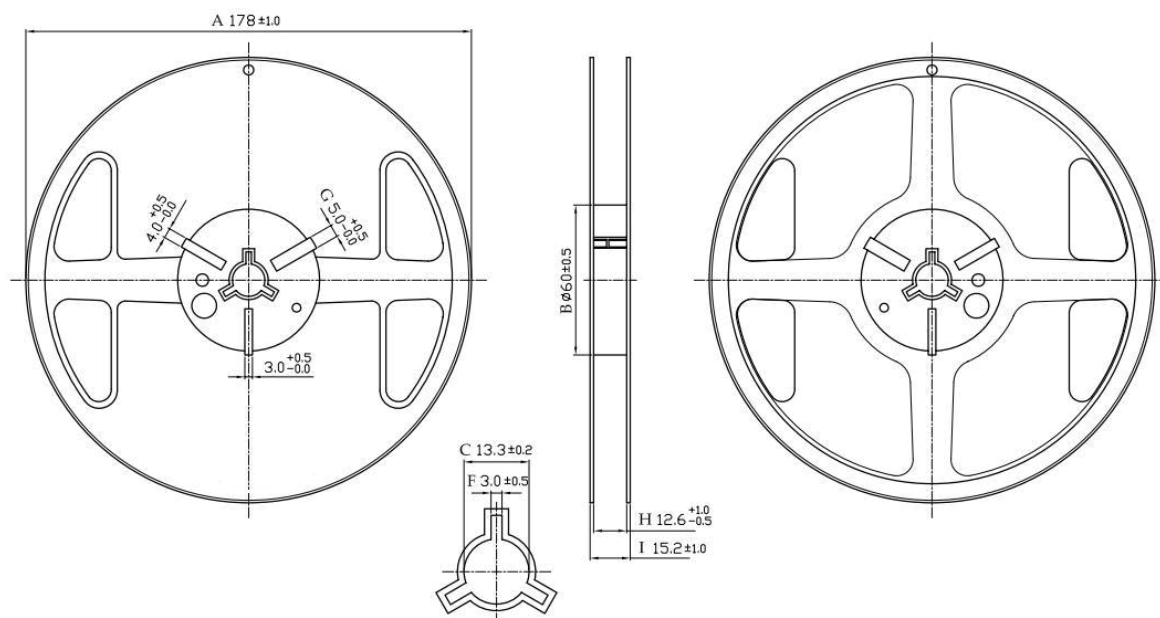
■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

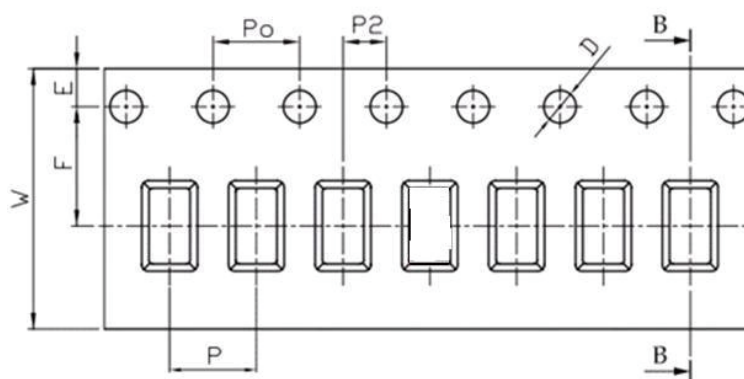


■ 包装形式 Packaging Style

□ REEL DIMENSIONS



□ 胶带尺寸 TAPE DIMENSIONS



Feature	Specifications	Tolerances
W	8.00	±0.30
P	4.00	±0.10
E	1.75	±0.10
F	3.50	±0.10
P2	2.00	±0.10
D	1.50	+0.10 -0.00
P0	4.00	±0.10
10P0	40.00	±0.20

数量Quantity:5000pieces per 7 reel