

# SMD CERAMIC ANTENNA

## Data Sheet

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### CS-2450-31-L

For 2400-2484MHz

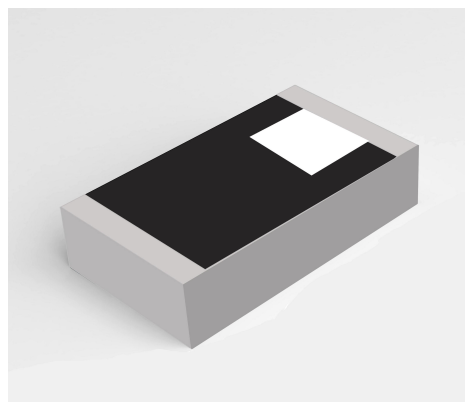
3.2x1.6mm [EIA1206]

Type of Antenna: SMD Ceramic Antenna

SHENZHEN CSCURVE 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

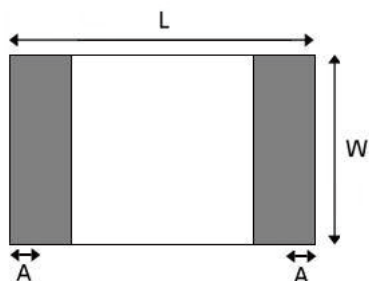


### 应用 Application

- 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 |

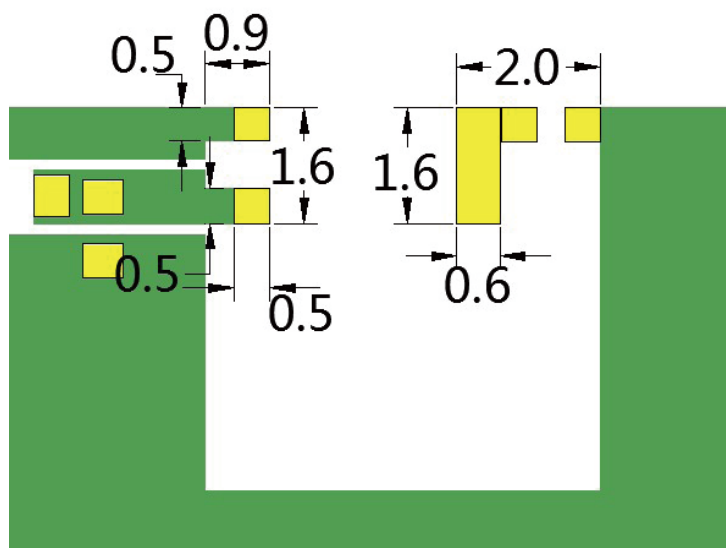


## 电气特性 Electrical Characteristics per line(TA= 25°C)

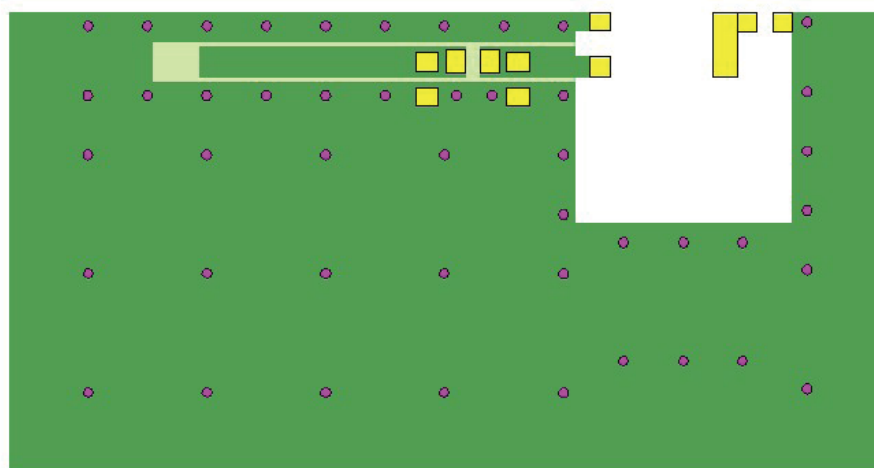
| 参数Parameter       | 规格Specification     | 单位Units  |
|-------------------|---------------------|----------|
| 频带 Frequency Band | 2400~2483           | MHz      |
| 极化 Polarization   | linear polarization |          |
| *最大增益 Peak Gain   | 2.58                | dBi      |
| *效率 Efficiency    | 72.30               | %        |
| 阻抗 Impedance      | 50                  | $\Omega$ |

## ■ 编码 Part Numbering System

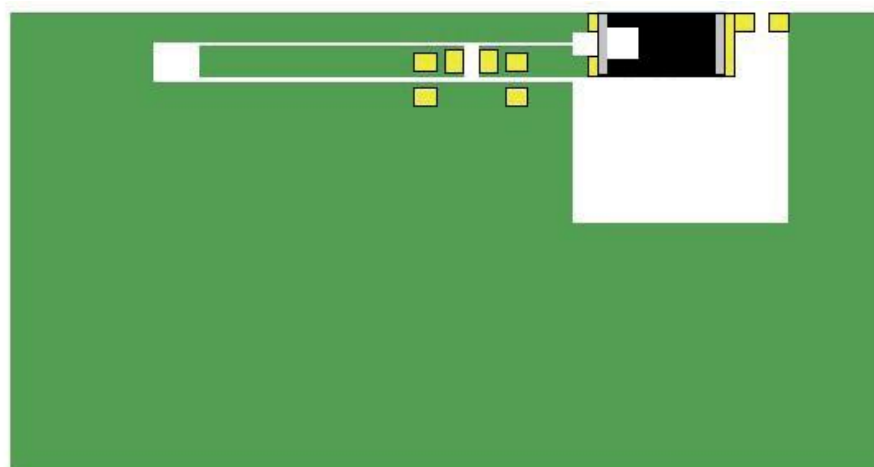
CS      -      2450      -      31      -      L  
 Material      Frequency      Size      Type



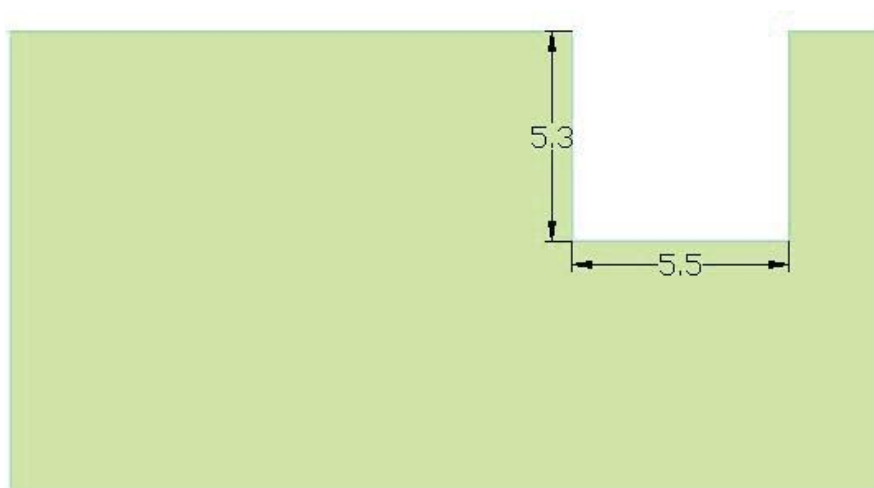
## ■ 评价板 Evaluation Board



- 天线
- PAD
- 底层铺铜
- 顶层铺铜
- 打孔



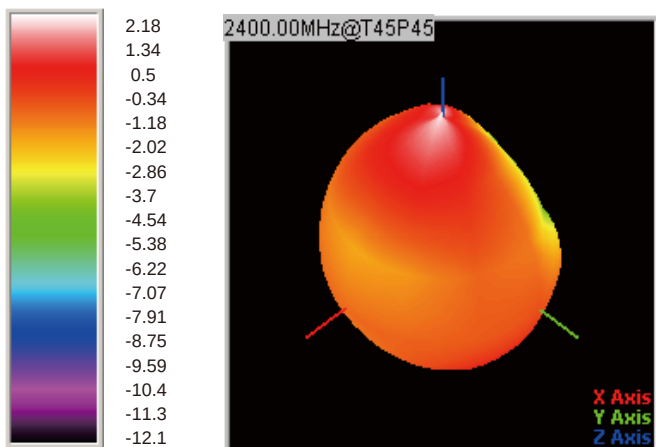
- 天线
- PAD
- 底层铺铜
- 顶层铺铜



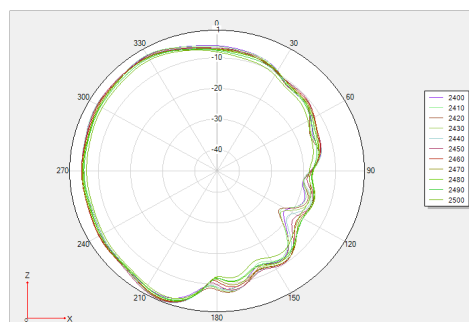
### ■ 辐射模式 Radiation Patterns

□ 2.4GHz WLAN BAND

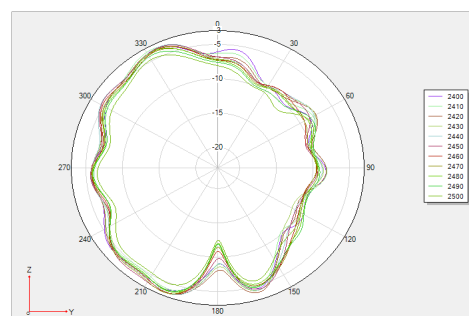
◎ 3D Gain Pattern (2400 MHz)



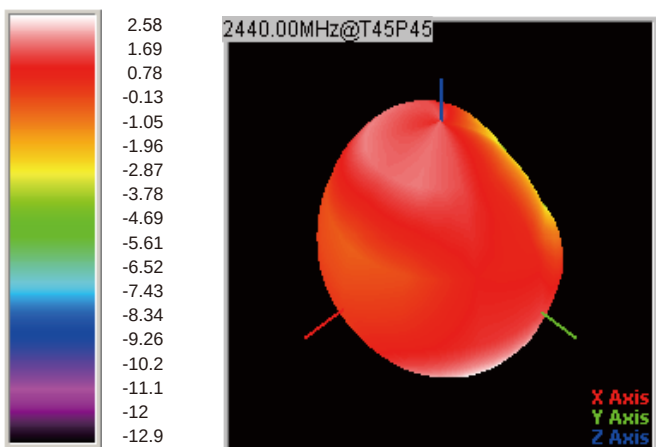
◎ 2D Gain Pattern Phi 0



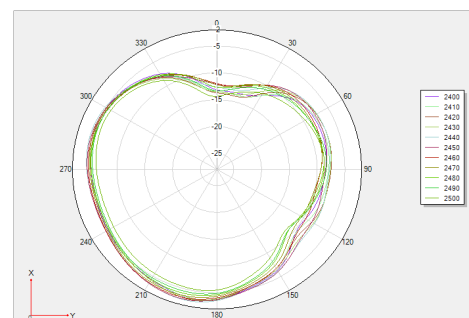
◎ 2D Gain Pattern Phi 90



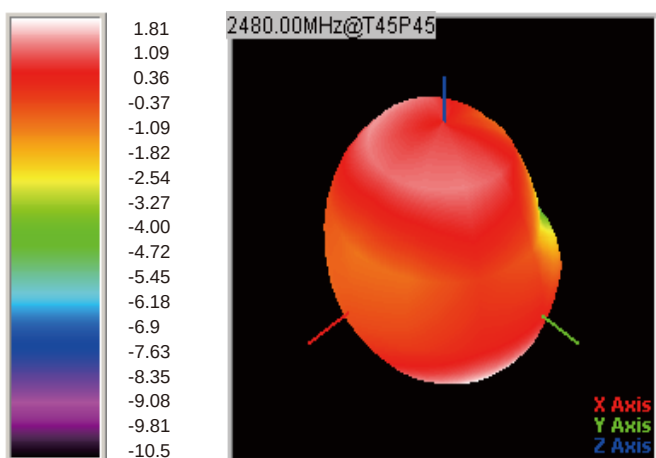
◎ 3D Gain Pattern (2440 MHz)



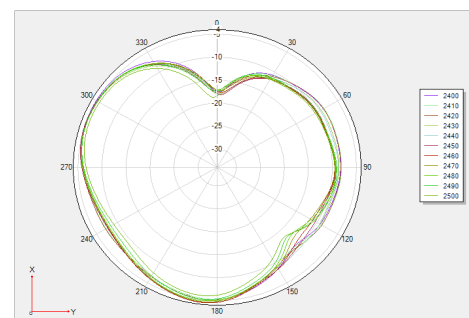
◎ 2D Gain Pattern Theta 60



◎ 3D Gain Pattern (2480 MHz)

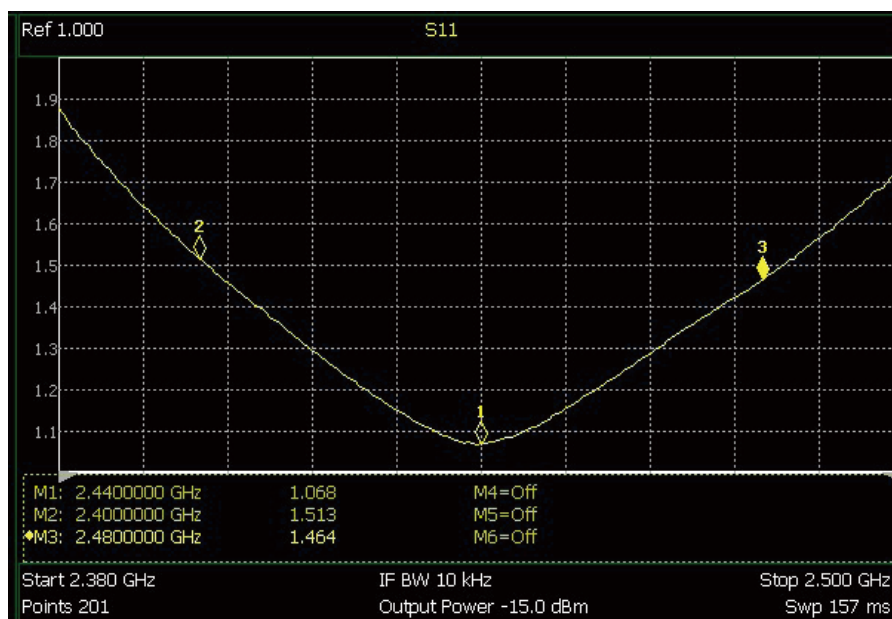
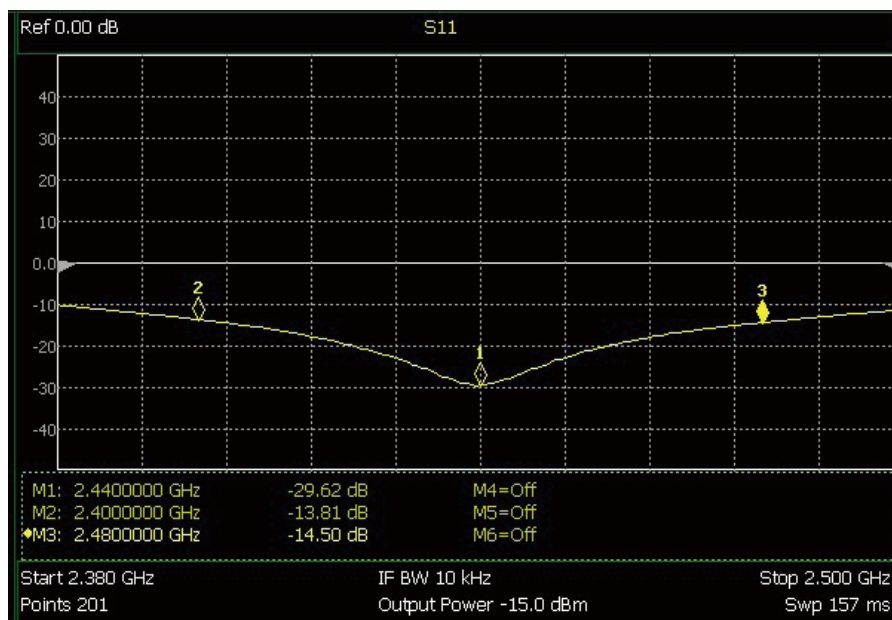


◎ 2D Gain Pattern Theta 90



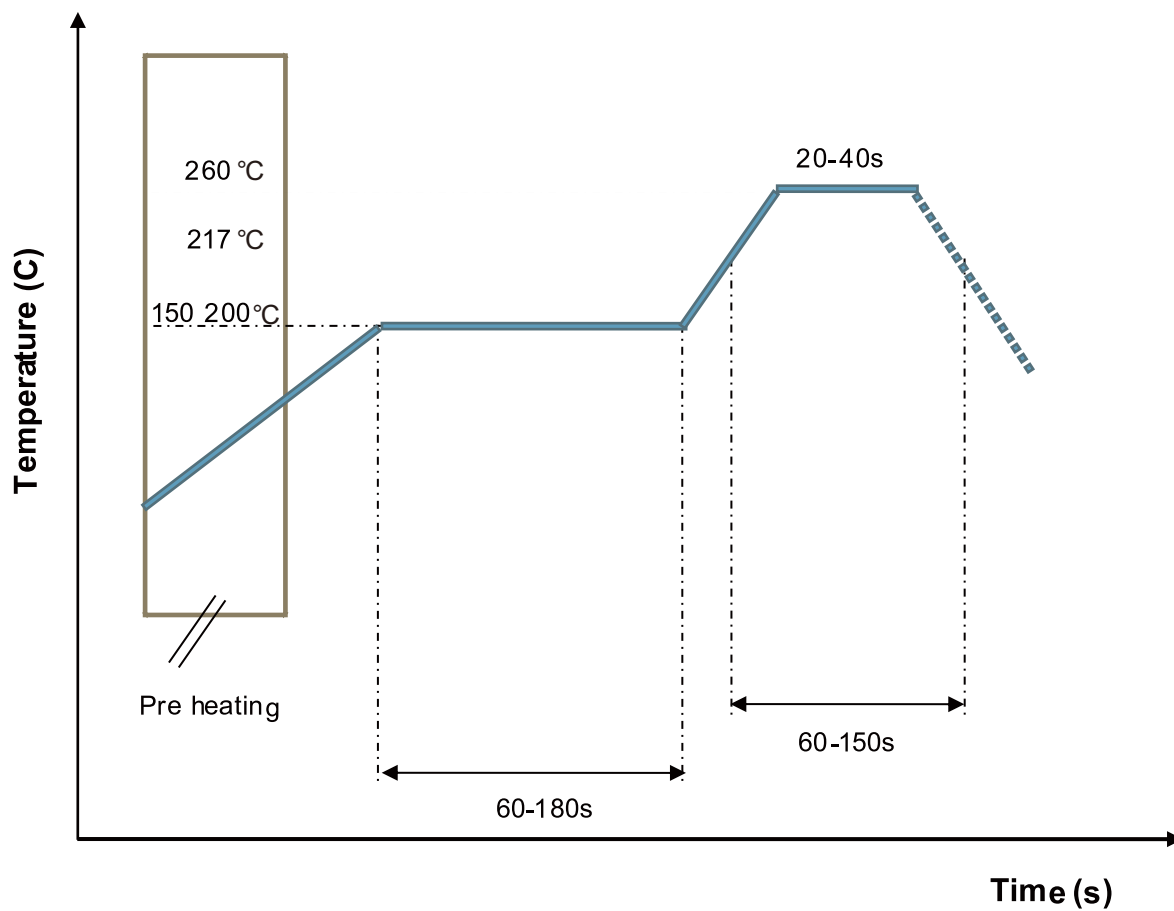
### ■ 频率特性 Frequency Characteristics

#### □ EFFICIENCY AND VSWR



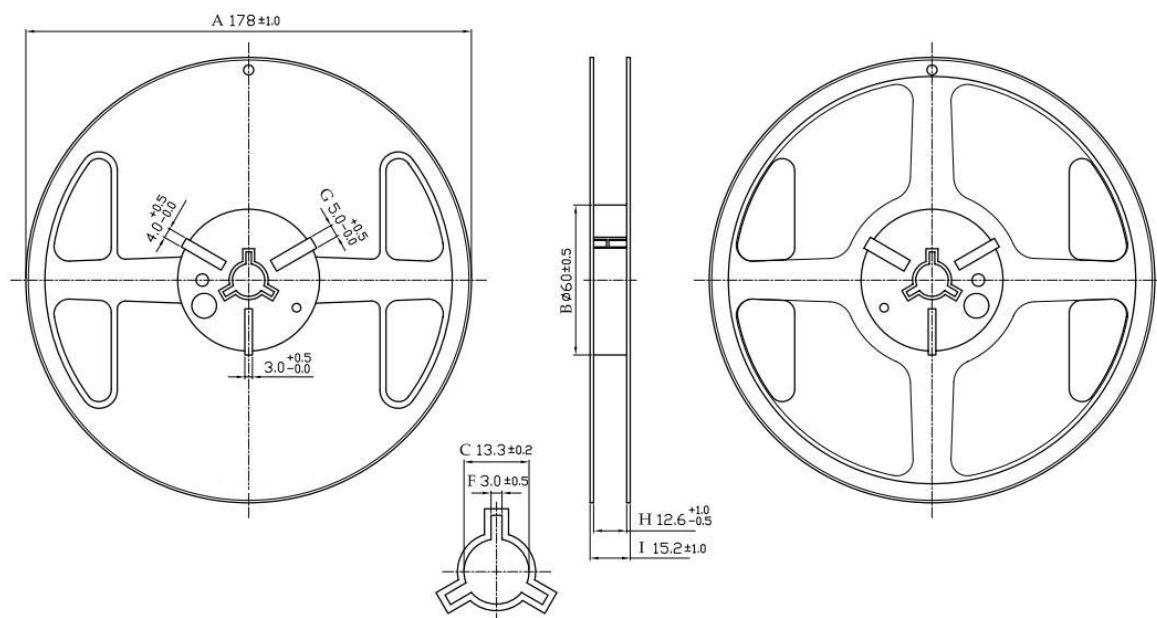
■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

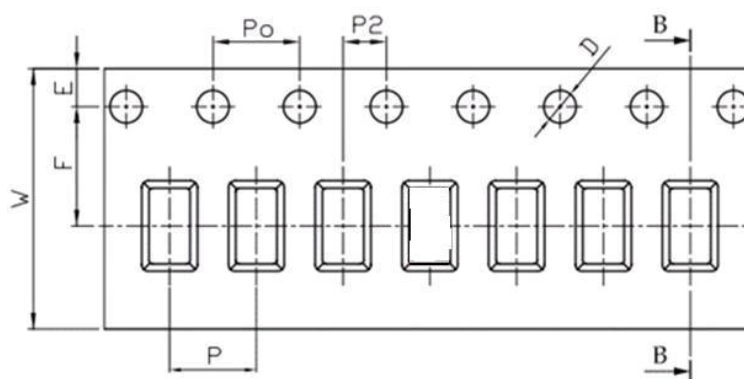


## ■ 包装形式 Packaging Style

### □ 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<br>-0.00 |
| P0      | 4.00           | ±0.10          |
| 10P0    | 40.00          | ±0.20          |

数量Quantity:5000pieces per 7 reel