

# SMD CERAMIC ANTENNA

## Data Sheet

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# HZ3216LA01

## CS-2450-31-L

For 2400-2484MHz

3.2x1.6mm [EIA1206]

深圳市海柘科技有限公司

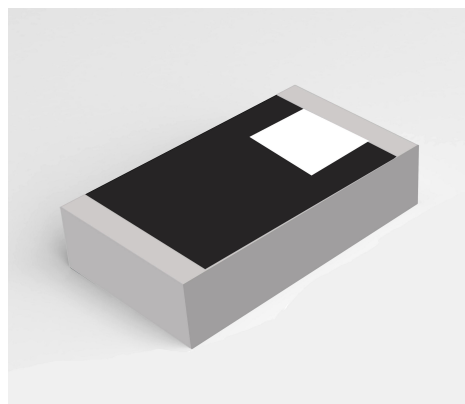
Shenzhen Haizhe Technology Co., Ltd.

101, No. 1, Lane 2, Qiaolian West, Ma'anTangcommunity,BantianStreet,LonggangDistrict, Shenzhen.

Rev.2.4

## 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

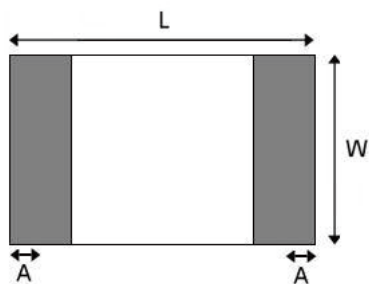


## ■ 应用 Application

- 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 |



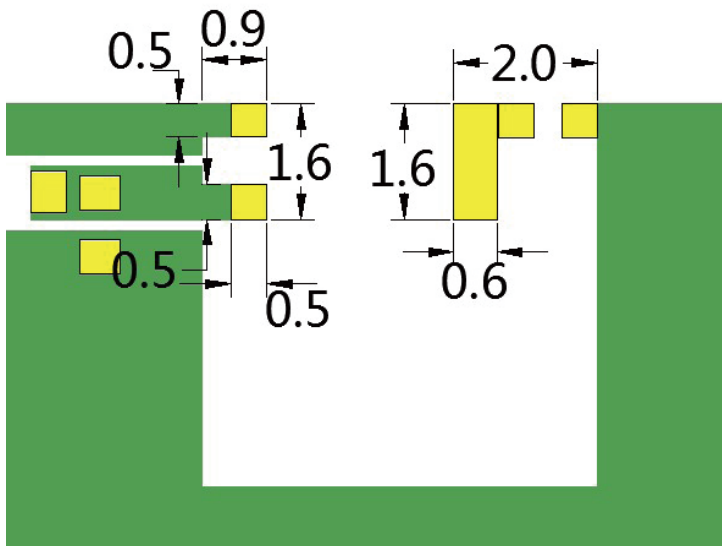
**电气特性 Electrical Characteristics per line(TA= 25°C)**

| 参数Parameter       | 规格Specification | 单位Units  |
|-------------------|-----------------|----------|
| 频带 Frequency Band | 2400~2483       | MHz      |
| 极化 Polarization   | 线极化             |          |
| *最大增益 Peak Gain   | 2.67            | dBi      |
| *效率 Efficiency    | 72.30           | %        |
| 阻抗 Impedance      | 50              | $\Omega$ |

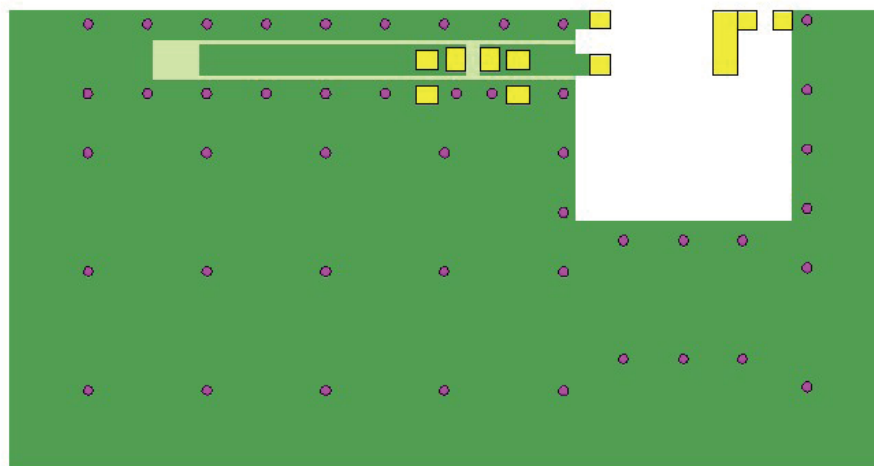
**■ 编码 Part Numbering System**

CS      -      2450      -      31      -      L

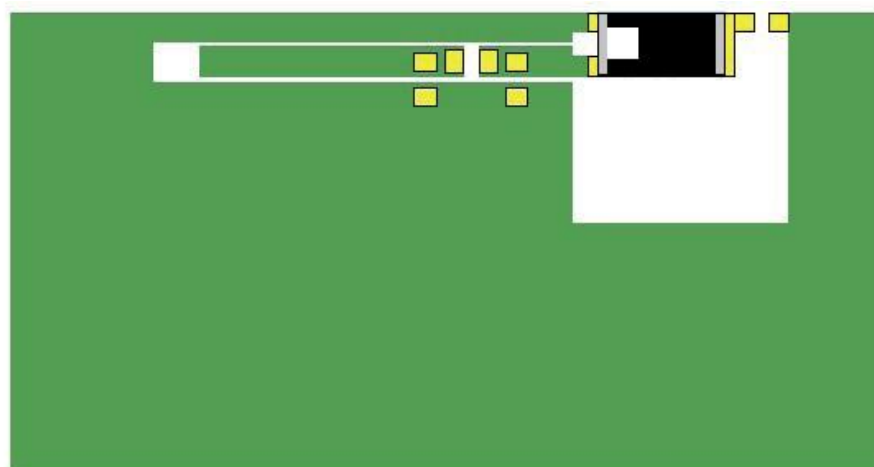
Material                      Frequency                      Size                      Type



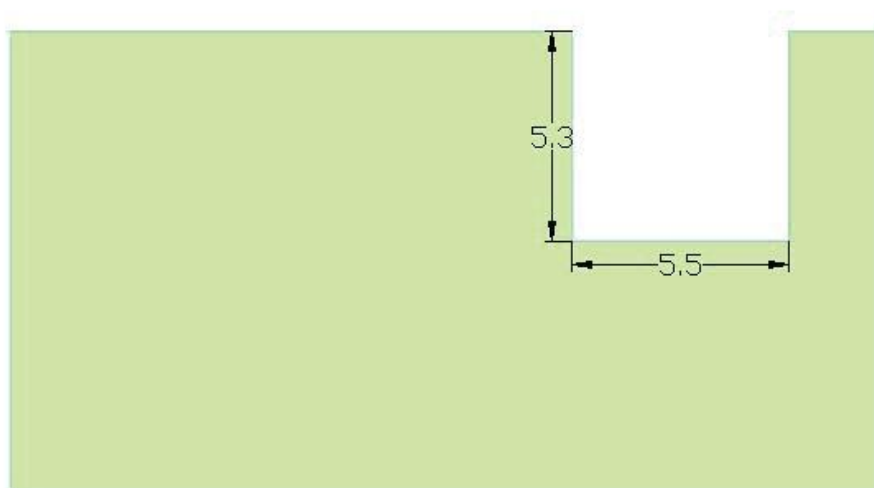
## ■ 评价板 Evaluation Board



- 天线
- PAD
- 底层铺铜
- 顶层铺铜
- 打孔



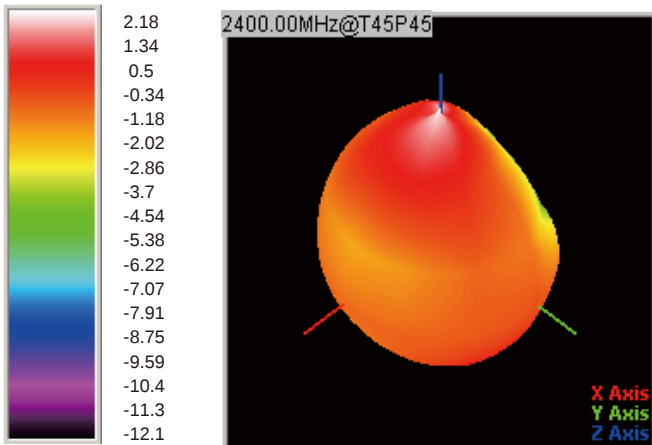
- 天线
- PAD
- 底层铺铜
- 顶层铺铜



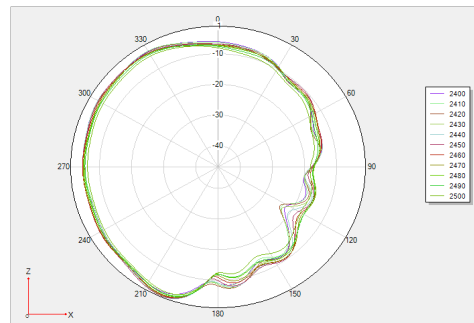
## ■ 辐射模式 Radiation Patterns

□ 2.4GHz WLAN BAND

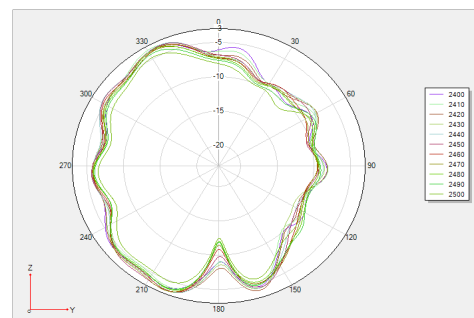
◎ 3D Gain Pattern (2400 MHz)



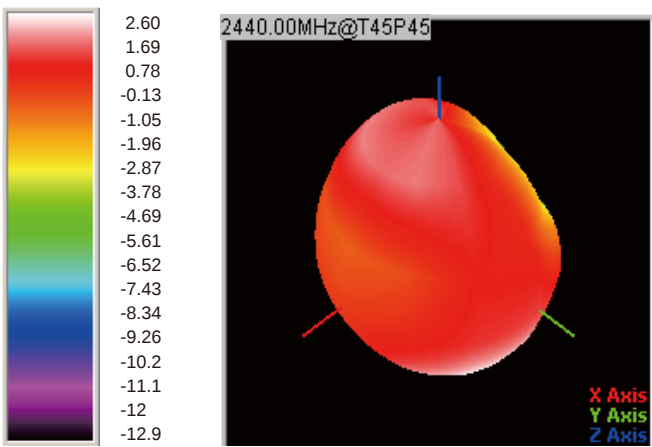
◎ 2D Gain Pattern Phi 0



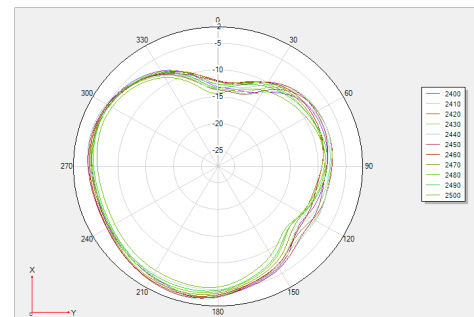
◎ 2D Gain Pattern Phi 90



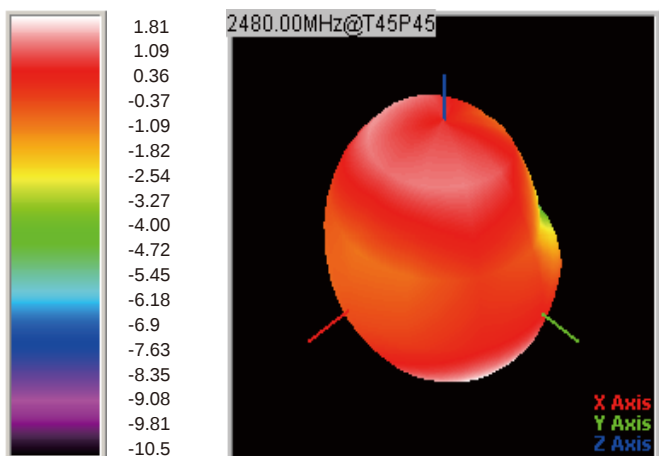
◎ 3D Gain Pattern (2440 MHz)



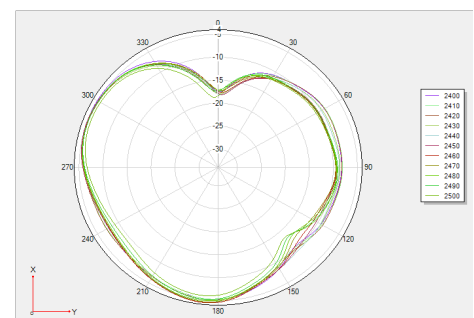
◎ 2D Gain Pattern Theta 60



◎ 3D Gain Pattern (2480 MHz)

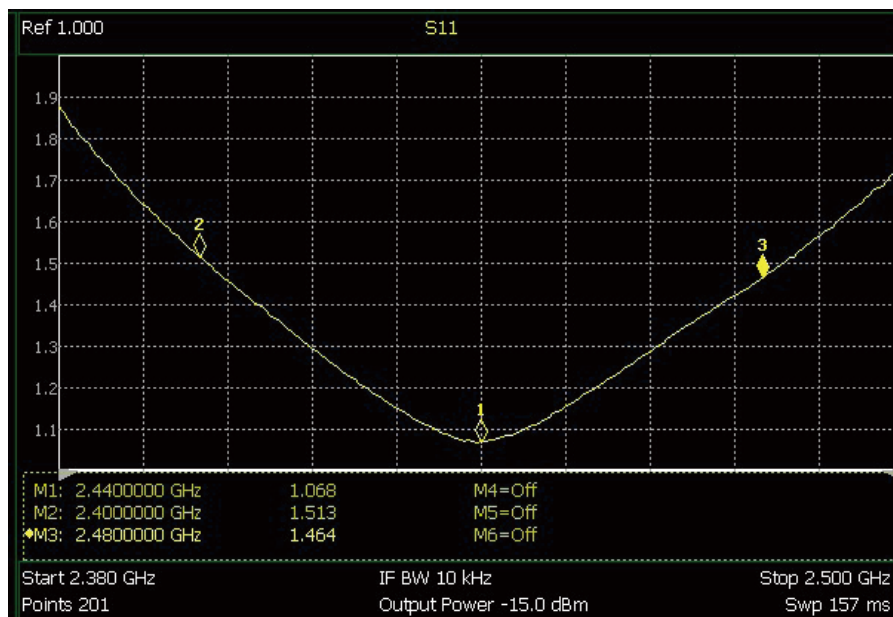
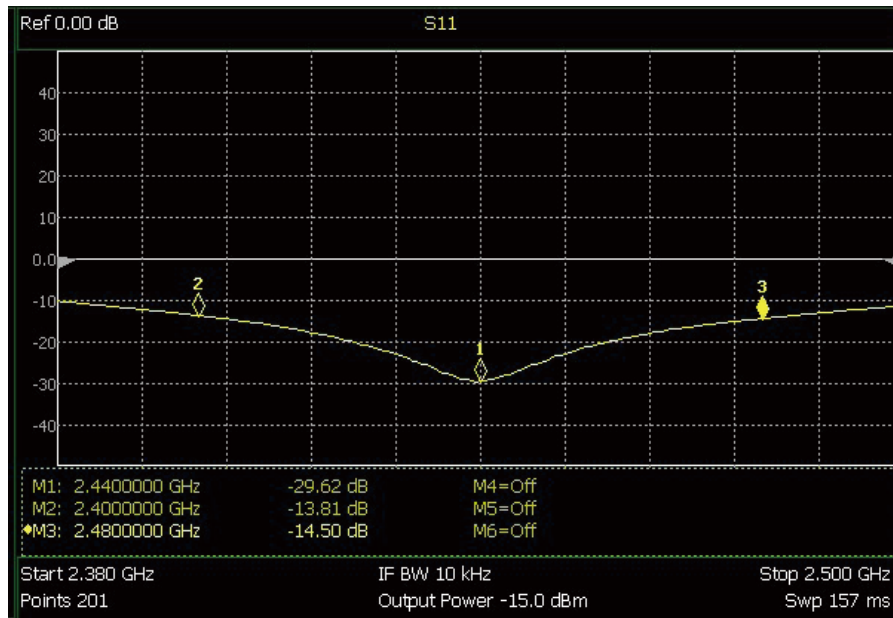


◎ 2D Gain Pattern Theta 90



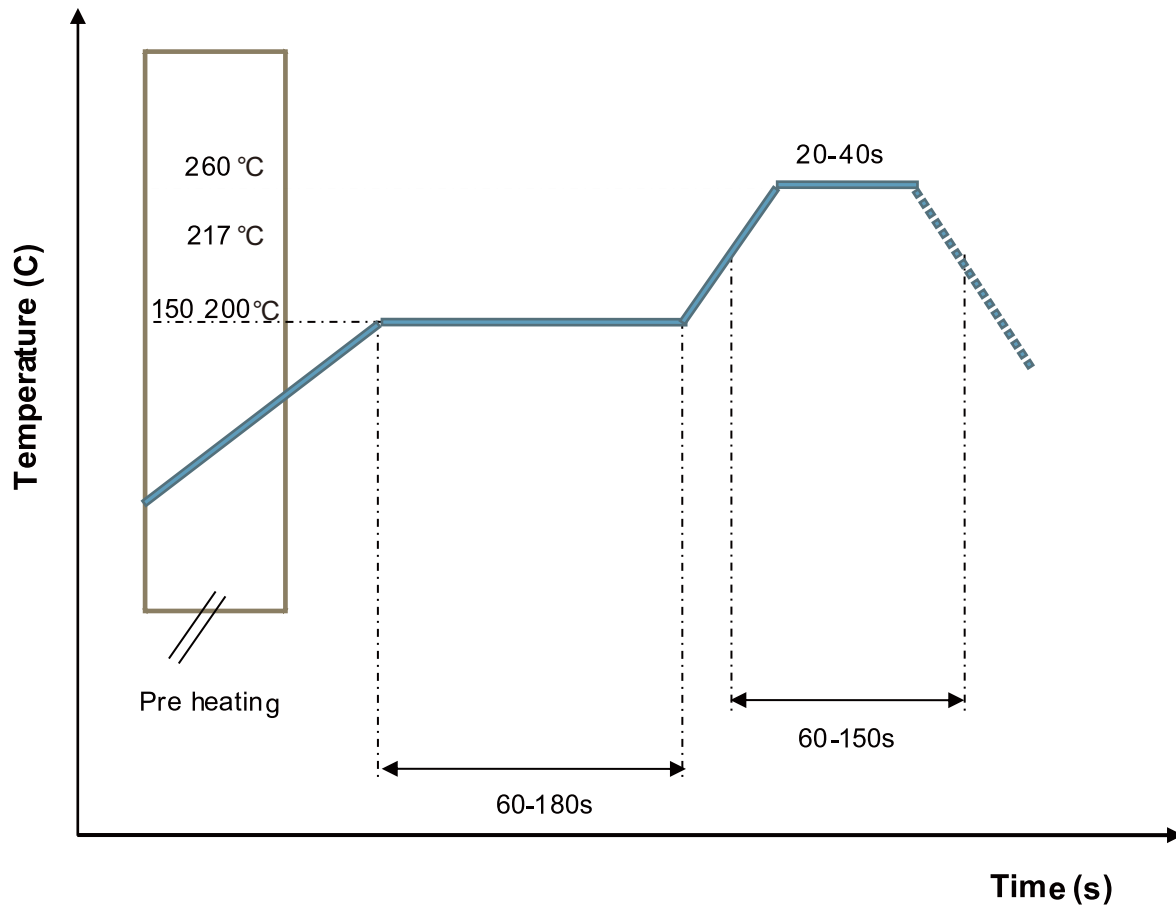
## ■ 频率特性 Frequency Characteristics

### □ EFFICIENCY AND VSWR



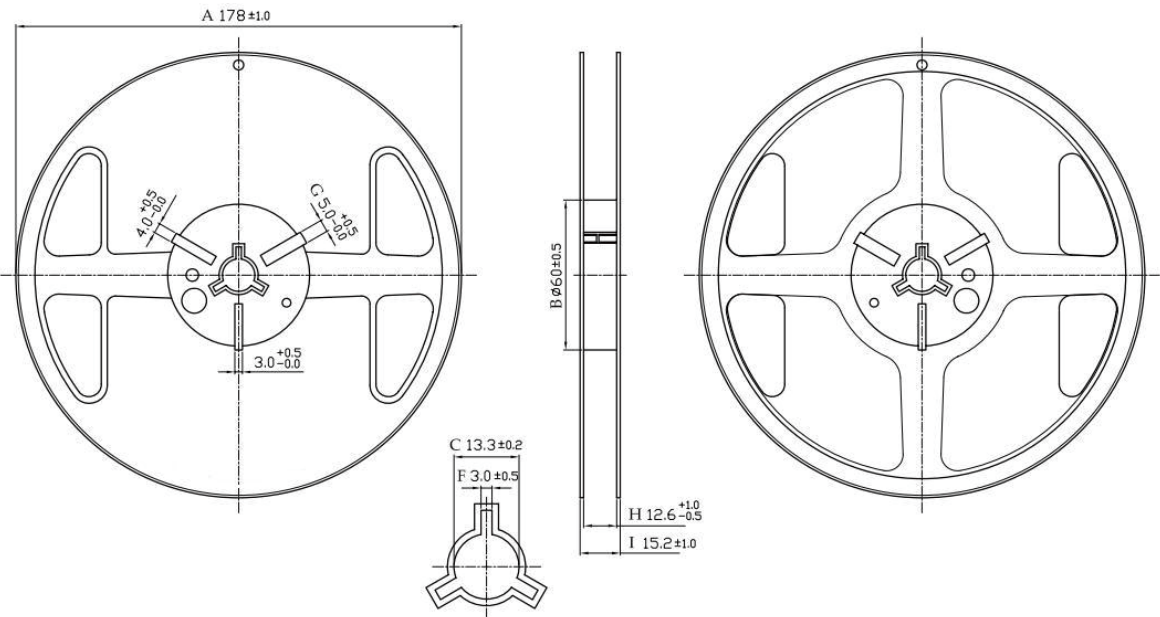
## ■ 推荐回流剖面

## RECOMMENDED REFLOW PROFILE

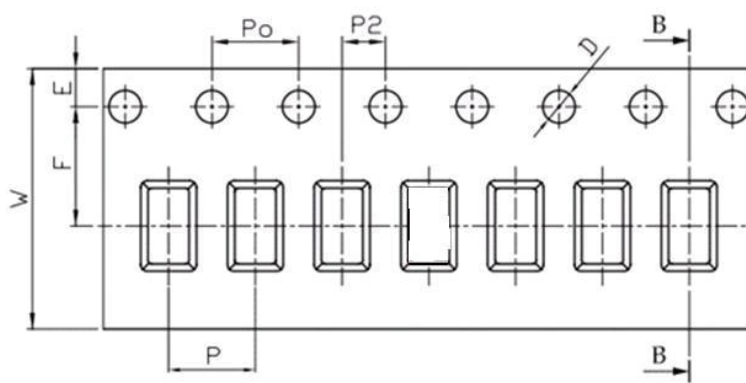


■ 包装形式 Packaging Style

□ 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