

# SMD CERAMIC ANTENNA

## Data Sheet

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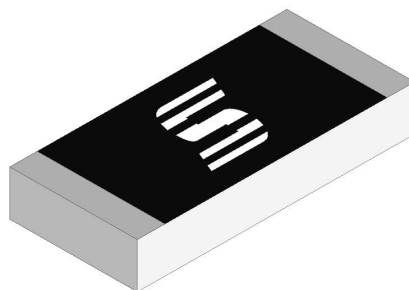
# CS-2450-31-D

For 2400-2484MHz

3.2x1.6mm [EIA1206]

### 特征 Feature

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



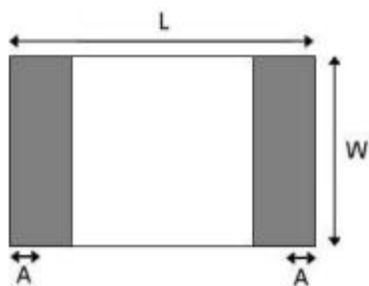
### 应用 Application

- 蓝牙技术Bluetooth
- WLAN 2.4 GHz IEEE802.11g/b
- 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±0.10 |

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

| 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   | 2.58            | dBi     |
| *效率 Efficiency    | 72.30           | %       |
| 阻抗 Impedance      | 50              | Ω       |

## ■ 编码 Part Numbering System

CS

Material

2450

Frequency

31

Size

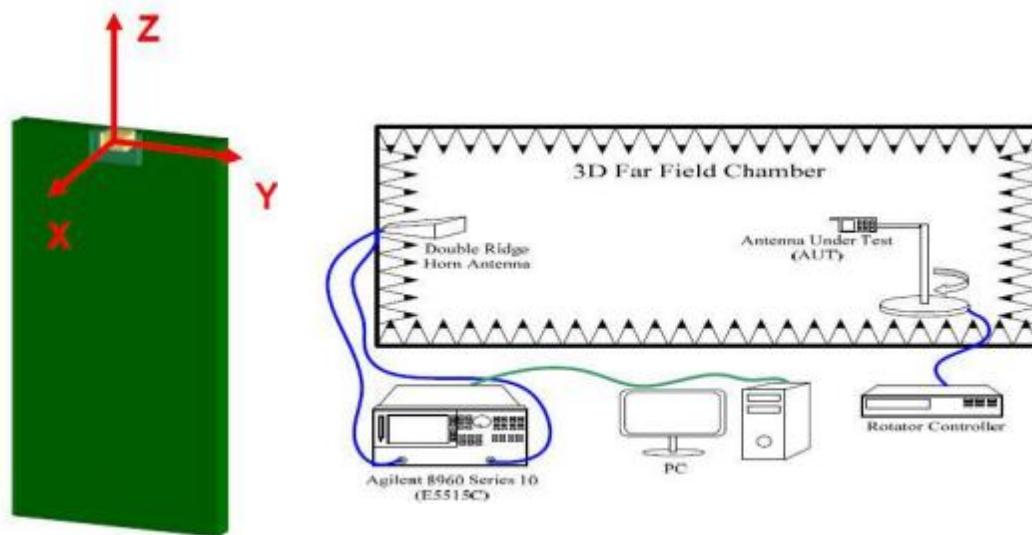
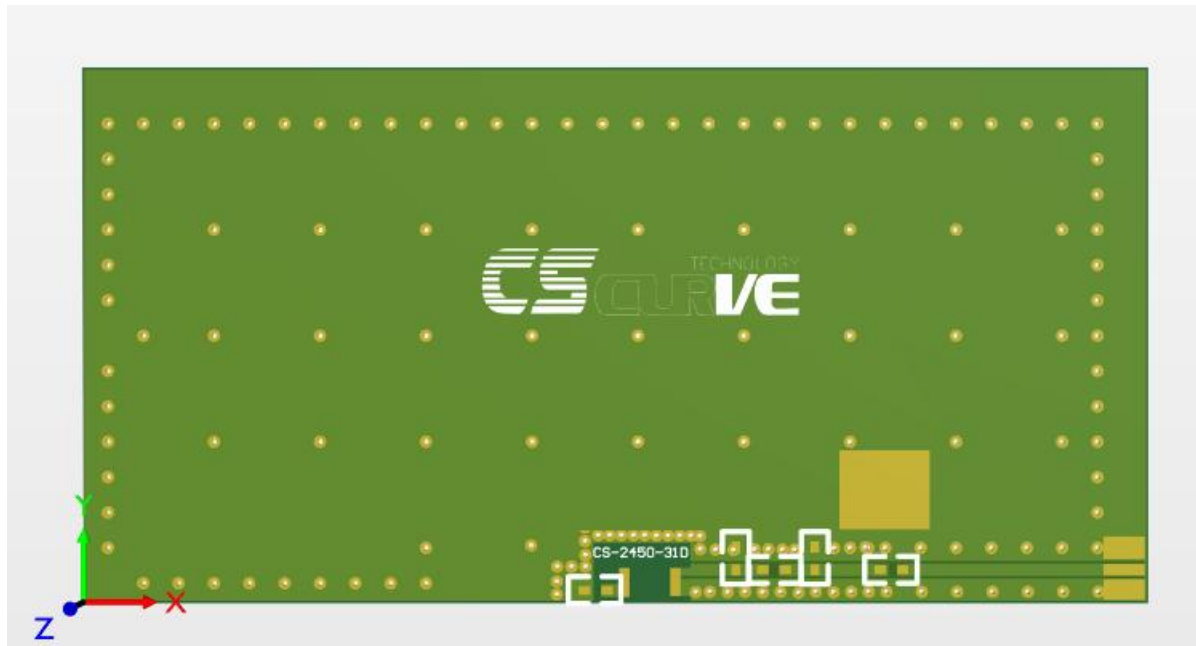
- D

Type

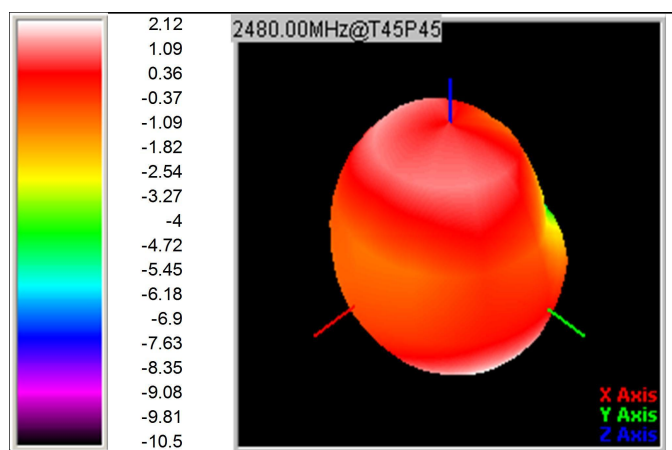
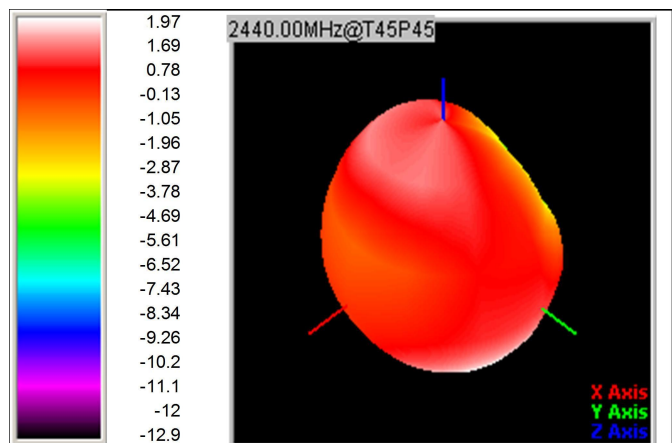
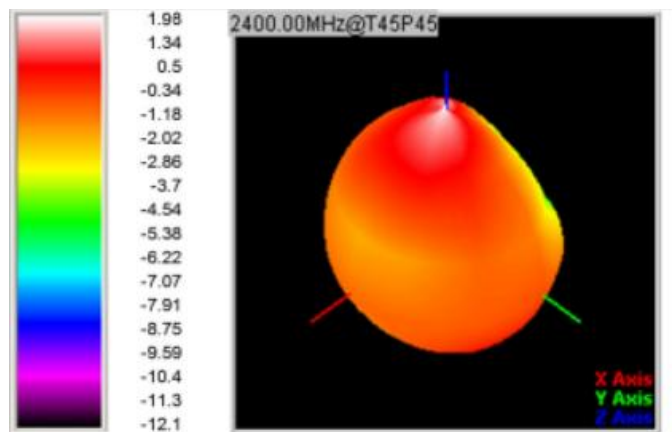
## ■ 丝印 Marking



■ 评价板 Evaluation Board (3CM\*6CM)



■ 增益&效率 Gain Pattern&Efficiency



| Clearance 5mm*5mm |            |      |
|-------------------|------------|------|
| Frequency         | Efficiency | Gain |
| 2400              | 67.25      | 1.98 |
| 2410              | 66.93      | 1.89 |
| 2420              | 66.76      | 1.92 |
| 2430              | 67.13      | 1.95 |
| 2440              | 67.28      | 1.97 |
| 2450              | 68.86      | 2.08 |
| 2460              | 68.8       | 2.15 |
| 2470              | 69.23      | 2.22 |
| 2480              | 68.57      | 2.12 |
| 2490              | 67.9       | 2.04 |
| 2500              | 65.88      | 1.9  |

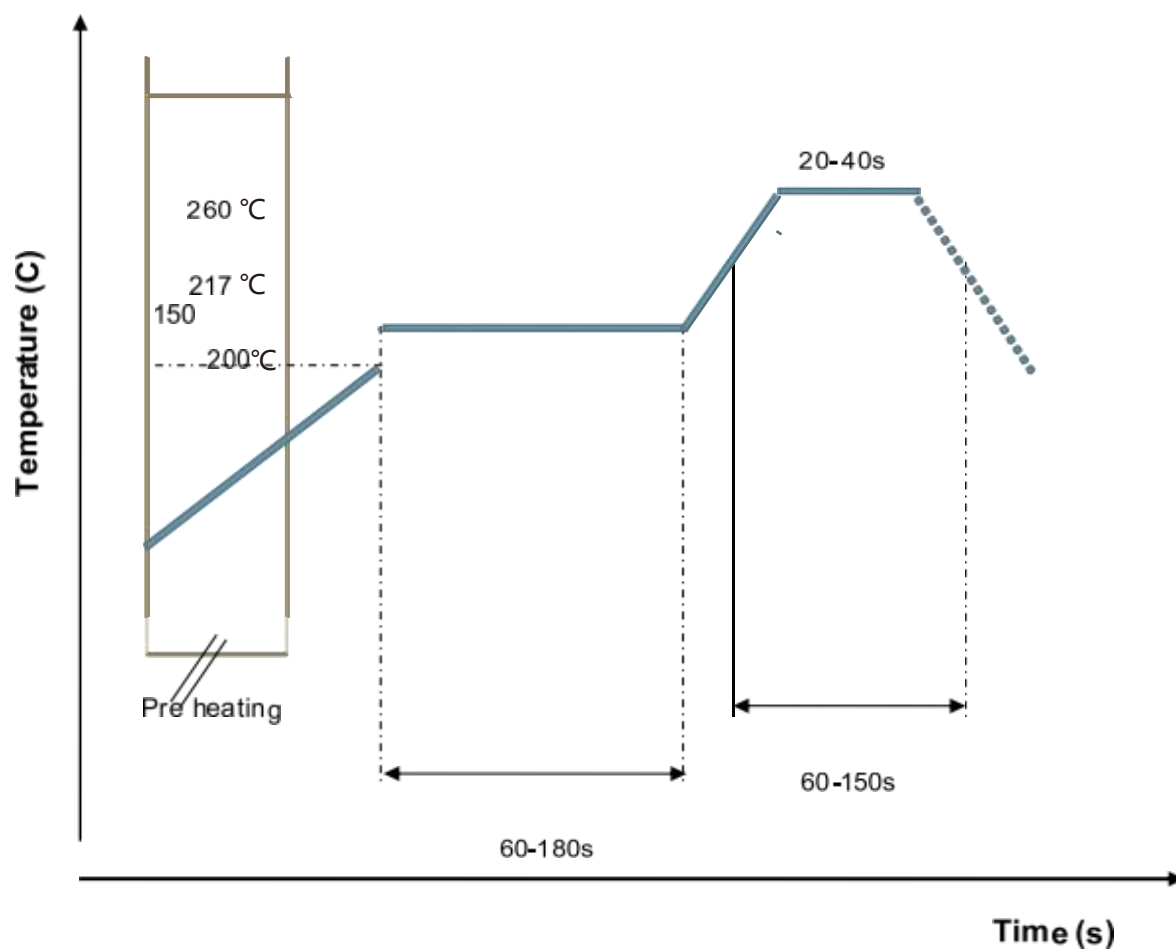
| Clearance 5mm*3mm |            |       |
|-------------------|------------|-------|
| Frequency         | Efficiency | Gain  |
| 2400              | 44.11      | -0.48 |
| 2410              | 46.32      | -0.07 |
| 2420              | 48.36      | 0.22  |
| 2430              | 50.18      | 0.38  |
| 2440              | 51.16      | 0.36  |
| 2450              | 52.15      | 0.3   |
| 2460              | 51.75      | 0.13  |
| 2470              | 50.84      | 0.12  |
| 2480              | 48.38      | -0.21 |
| 2490              | 45.86      | -0.51 |
| 2500              | 42.13      | -0.95 |

### ■ 频率特性 FREQUENCY CHARACTERISTICS



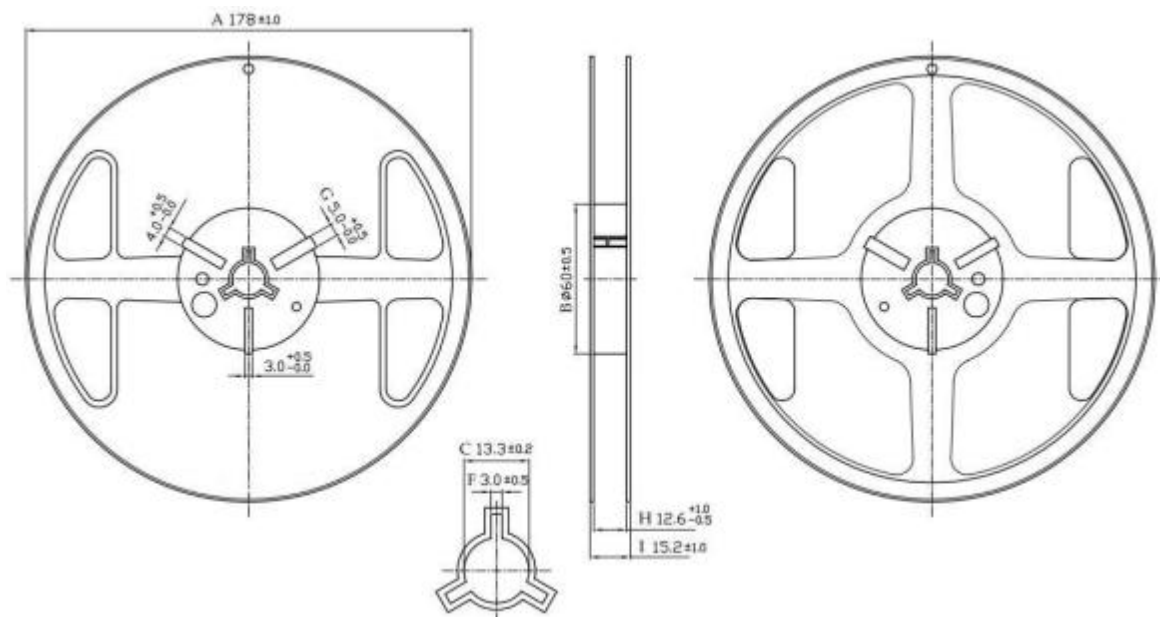
■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

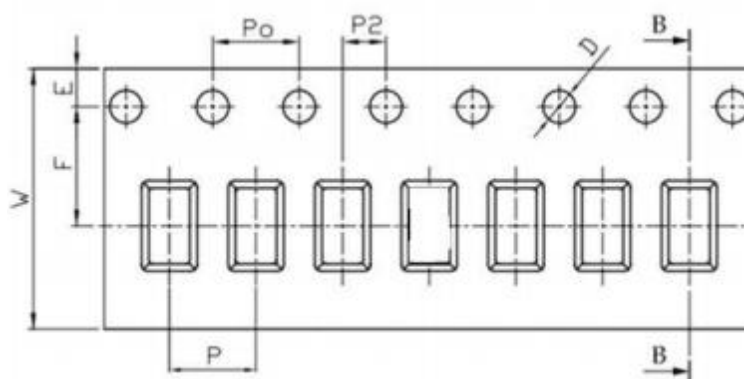


## ■ 包装形式 Packaging Style

### □ REEL DIMENSIONS



### □ 胶带尺寸 TAPE DIMENSIONS



| Feature | Specications | 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 |
| Po      | 4.00         | ±0.10          |
| 10Po    | 40.00        | ±0.20          |

数量 Quantity: 5000 pieces per 7 reel

## 订货信息 Order Information

| 设备<br>Device | 包装<br>Package | 净重<br>Net Weight | 运送方式<br>Carrier | 数量<br>Quantity | 认证<br>HSF Status |
|--------------|---------------|------------------|-----------------|----------------|------------------|
| CS-2450-31-D | 3216          | 0.0089g          | Tape&Reel       | 5000pcs        | RoHS compliant   |

## 版本信息 Revision history

| 日期/Date    | 版本号/Revision | 版本描述/Description of changes |
|------------|--------------|-----------------------------|
| 2023-03-09 | V1.0         | First Version               |
|            |              |                             |
|            |              |                             |

The contents of this data sheet are subject to change without notice.  
Please confirm the specifications and delivery conditions when placing your order.

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