



SMD CORAMIC ANTENNA

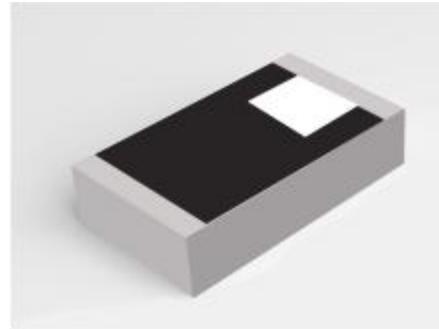
Data Sheet

CS-2450-31-L

For 2400-2484MHz
3.2x1.6mm [EIA1206]

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

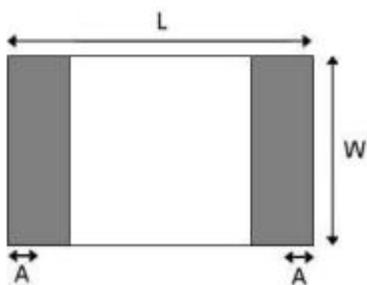


■ 应用 Application

- 蓝牙技术 Bluetooth
2.4 GHz 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 |



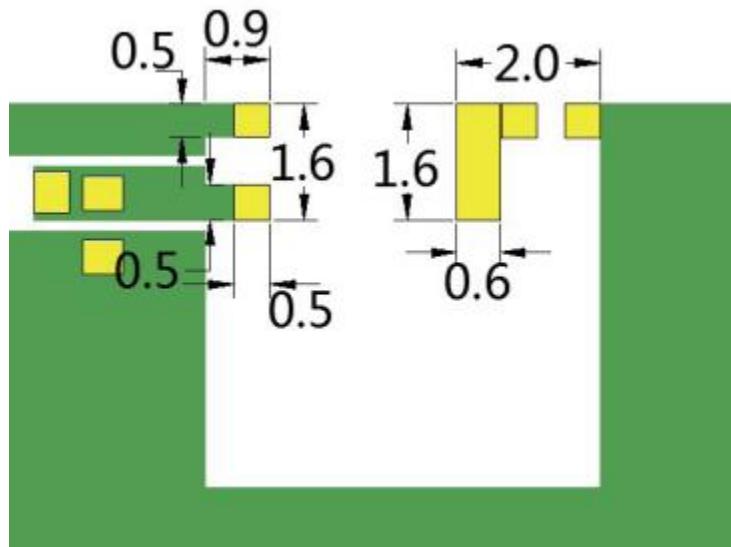
电气特性 Electrical Characteristics per line(TA = 25 °C)

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

■ 编码 Part Numbering System

CS - 2450 - 31 - L

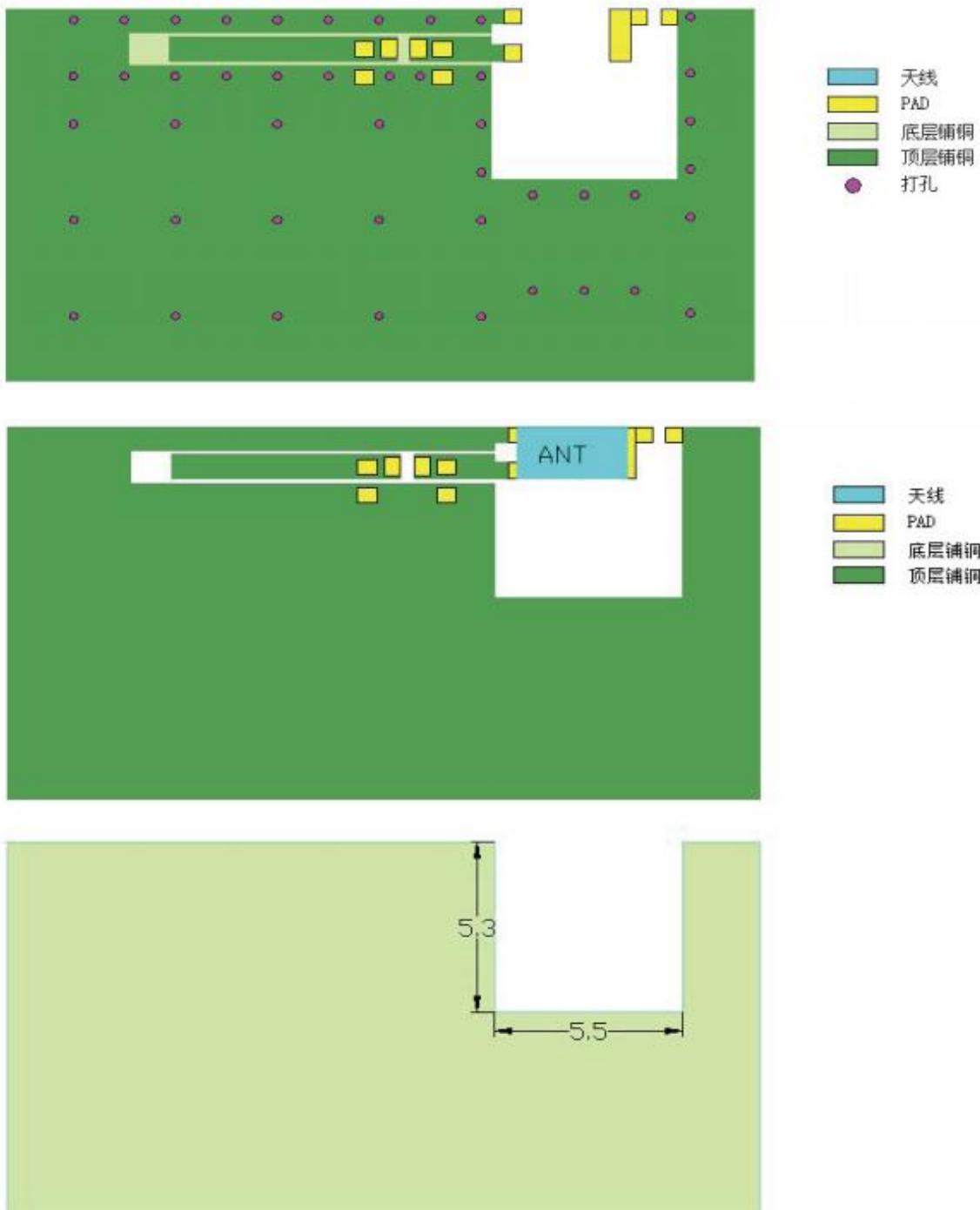
Material Frequency Size Type





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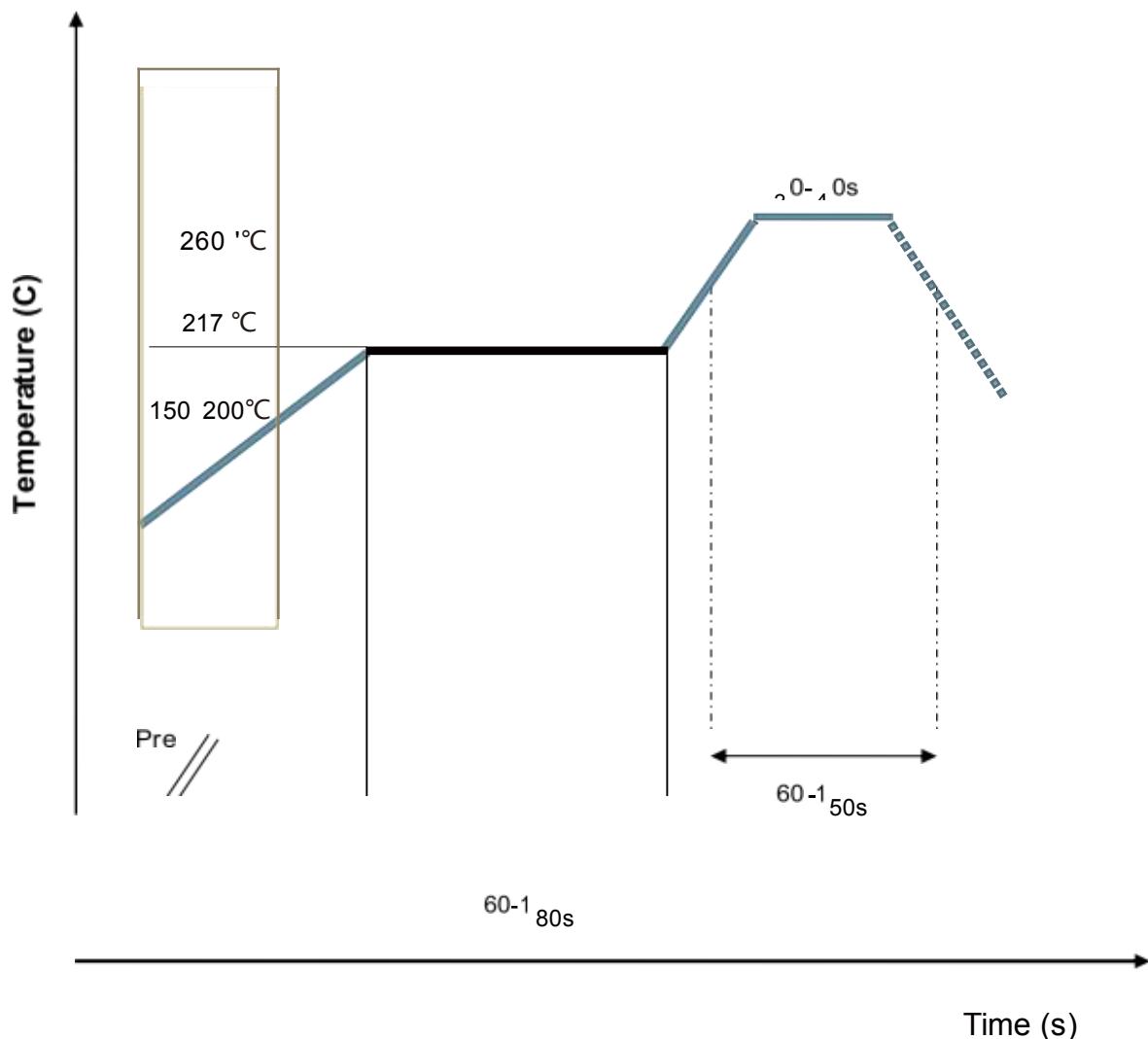
■ 评价板 Evaluation





■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

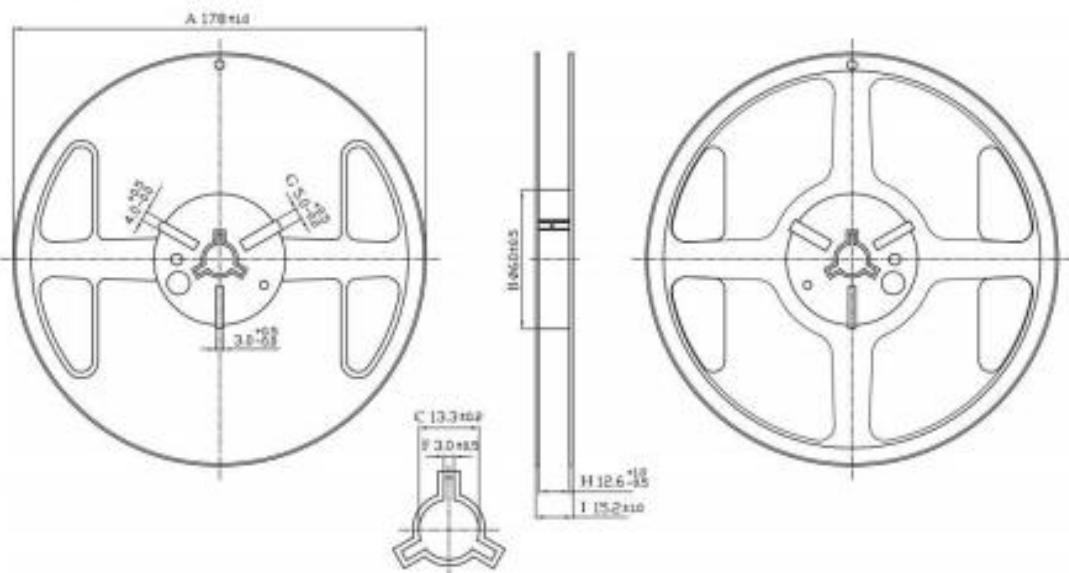




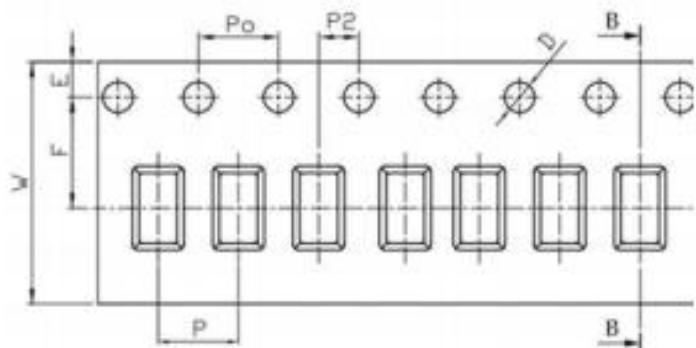
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■ 包装形式 Packaging Style

□ REEL DIMENSIONS



□ 胶带尺寸 TAPE DIMEN SIONS



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



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有源测试数据

| Test Result | Bluetooth TRP | | | Test Result | Bluetooth TIS | | |
|------------------------|---------------|-------|-------|-----------------|---------------|--------|--------|
| | 0 | 39 | 78 | | 0 | 39 | 78 |
| Frequency (MHz) | 2402 | 2441 | 2480 | Frequency (MHz) | 2402 | 2441 | 2480 |
| TRP(dBm) | 2.49 | 2.74 | 1.21 | TIS(dBm) | -82.65 | -81.78 | -81.29 |
| NHPRP(dBm) | 0.57 | 0.99 | -0.67 | NHPIS(dBm) | -80.72 | -80.03 | -79.41 |
| MAX(dBm) | 8.55 | 9.29 | 7.23 | RSSIAve | 0.97 | 1.42 | 0.01 |
| EIRP_peak | 8.55 | 9.29 | 7.23 | MaxPosRSSI | 5.6 | 6.65 | 4.86 |
| Min(dBm) | -10.8 | -10.2 | -9.44 | MaxPosSens | -87.28 | -87 | -86.13 |
| Attenuation Horizontal | 44.7 | 44.43 | 44.44 | MAX(dBm) | 7.03 | 7.97 | 6.03 |
| Attenuation Vertical | 44.21 | 43.92 | 43.88 | EIS peak | 7.03 | 7.97 | 6.03 |

