

SMD CERAMIC ANTENNA

Data Sheet

CS-2450-31-L

Chip Antenna

For 2400-2484MHz

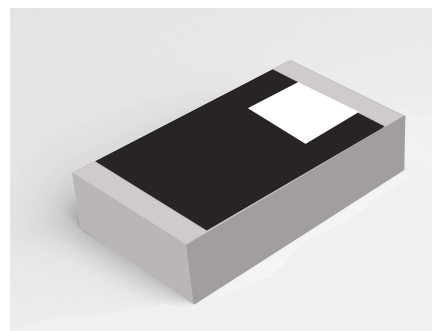
3.2x1.6mm [EIA1206]

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Address: EAST ZONE OF SHANGXUE SCIENCE AND TECHNOLOGY PARK, BANTIAN STREET, LONGGANG DISTRICT, SHENZHEN, China

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

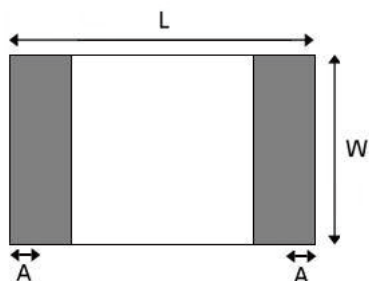


应用 Application

- 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

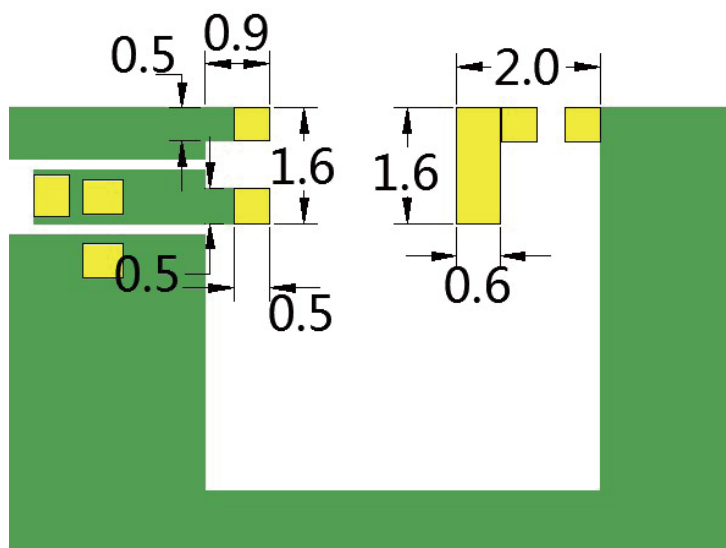


电气特性 Electrical Characteristics per line(TA= 25°C)

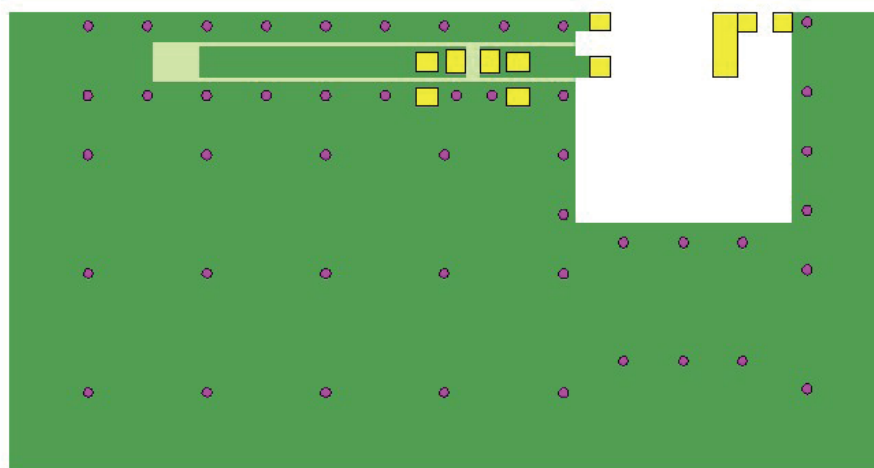
参数Parameter	规格Specification	单位Units
频带 Frequency Band	2400~2483	MHz
极化 Polarization	线极化/linear polarization	
*最大增益 Peak Gain	2.58	dBi
*效率 Efficiency	72.30	%
阻抗 Impedance	50	Ω

■ 编码 Part Numbering System

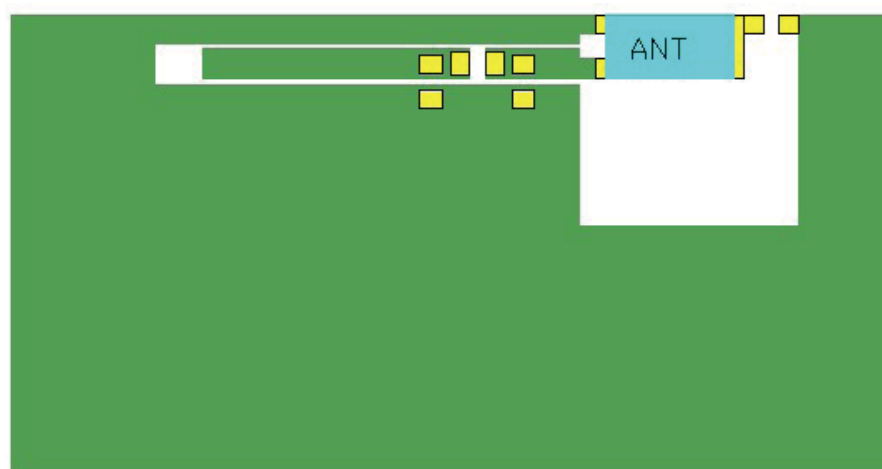
CS - 2450 - 31 - L
 Material Frequency Size Type



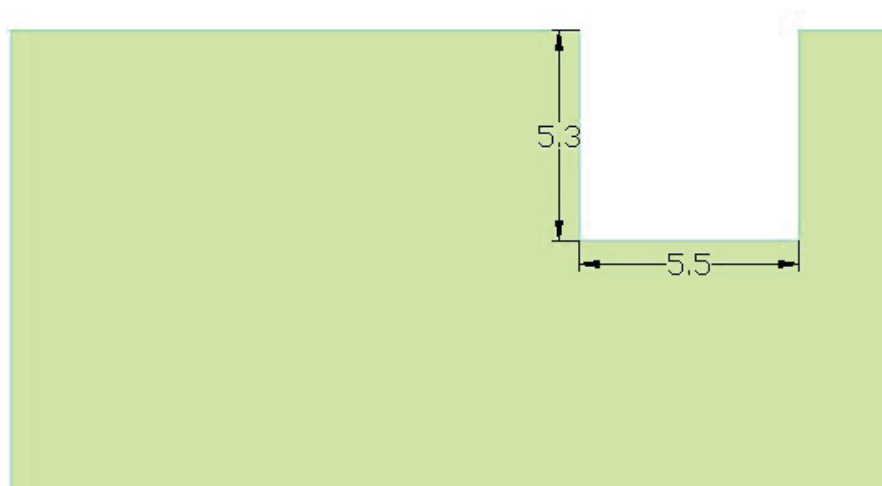
■ 评价板 Evaluation Board



- 天线
- PAD
- 底层铺铜
- 顶层铺铜
- 打孔

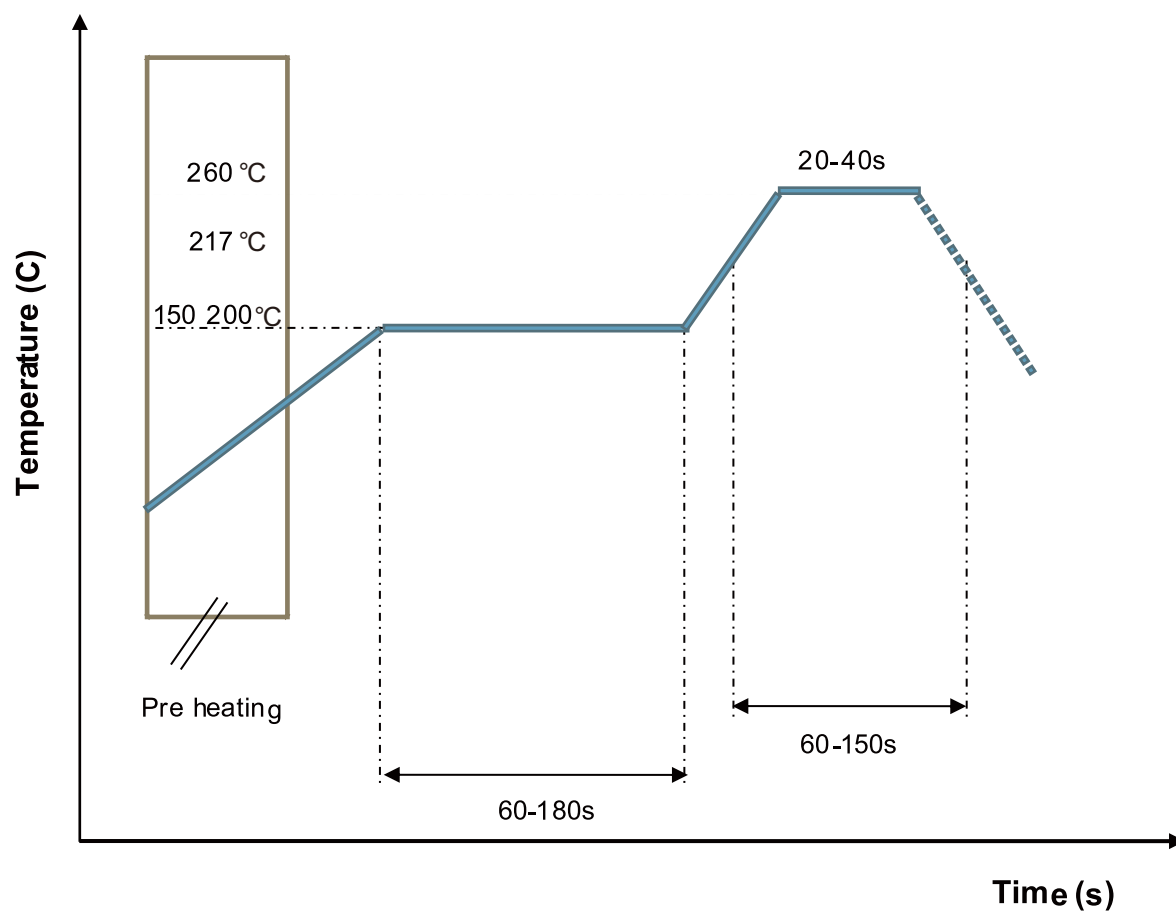


- 天线
- PAD
- 底层铺铜
- 顶层铺铜



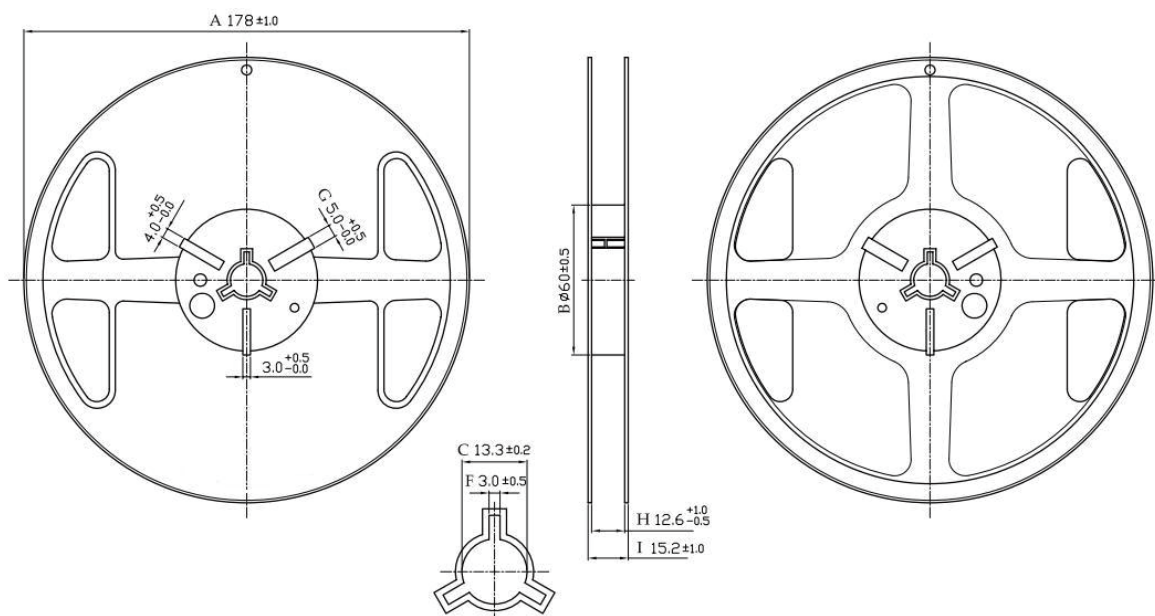
■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

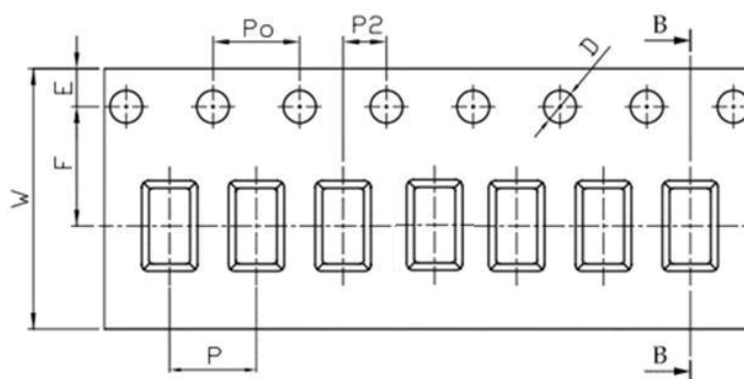


■ 包装形式 Packaging Style

□ 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

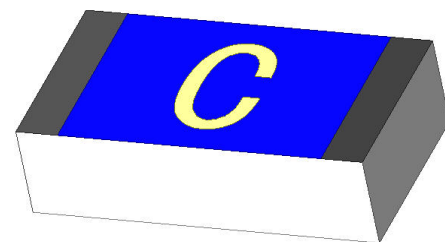
数量Quantity:5000pieces per 7 reel

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
- 工作温度 Operating Temp.: -40℃~+85℃

应用 Application

- 蓝牙,无线局域网,移动电视 Bluetooth, Wireless LAN, Mobile TV
- 家用射频系统 Home RF system, etc



CS-2450-16-C

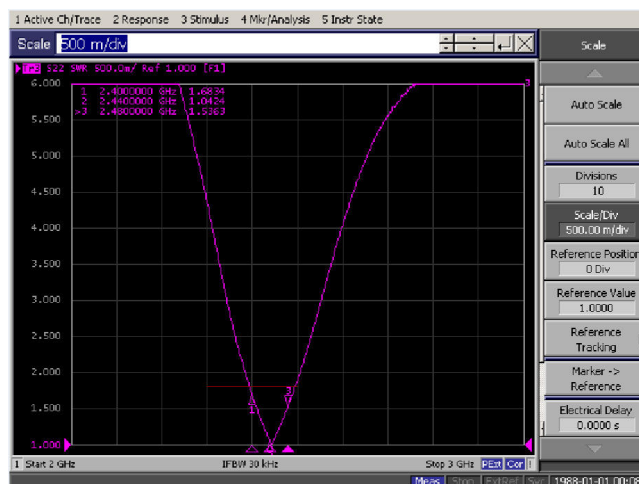
电气特性 Electrical Characteristics per line(TA=25℃)

参数Parameter	规格Specification	单位Units
频带 Frequency Band	2400~2483	MHz
极化 Polarization	Linear	
*峰值增益 Peak Gain	2.36	dBi
*峰值效率 Peak Efficiency	66.5%	%
阻抗 Impedance	50	Ω

*测试条件：测试板尺寸98×65mm；匹配电路： π 型匹配电路。Test condition: Test board size 98*65 mm; Matching circuit: Pi matching circuit will be required

典型特征 Typical Characteristics

Fig.1 驻波比 VSWR

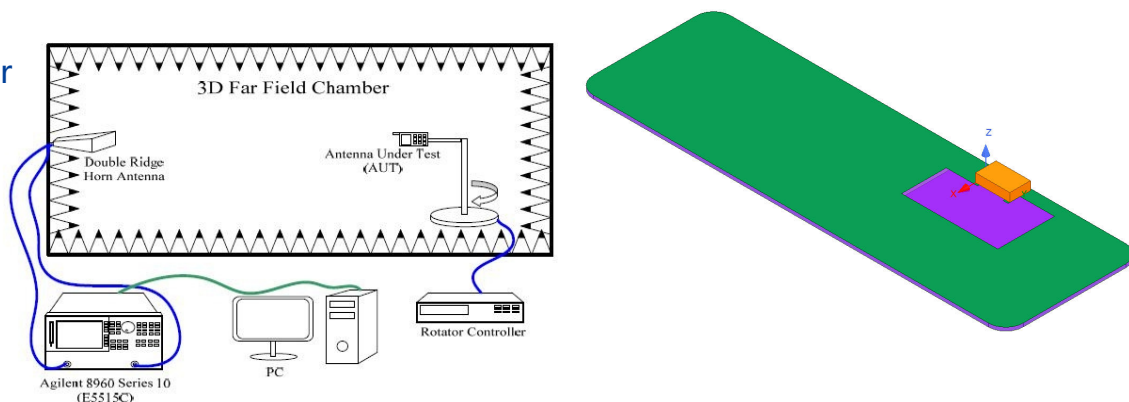


辐射模式 Radiation Pattern

增益模式是在暗室进行测试的，被测件放在桌肩位置，用标准的喇叭天线和矢量网络分析仪来收集数据。The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.

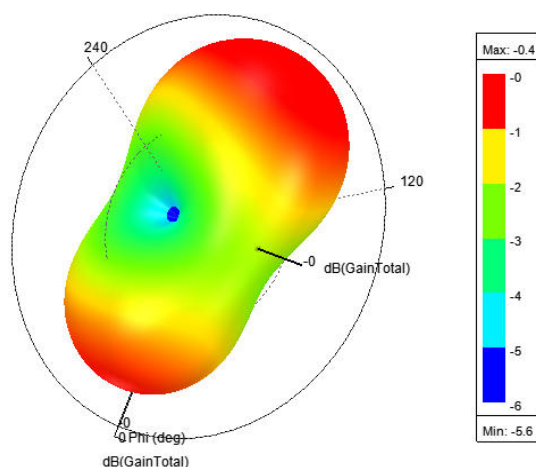
Fig.2 暗室示意图

FAR-field Chamber



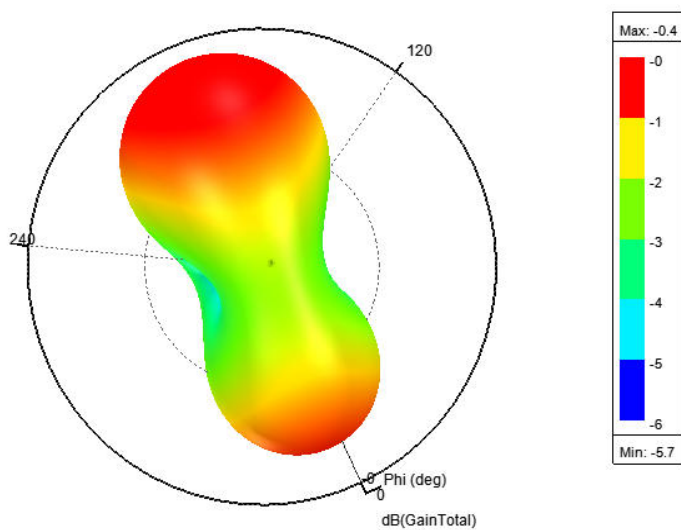
3D 增益模式

3D Gain Pattern (2400 MHz)



3D 增益模式

3D Gain Pattern (2450 MHz)



3D 增益模式

3D Gain Pattern (2500 MHz)

