

SMD CERAMIC ANTENNA

DataSheet

CA-2450-31-C

For 2400-2484MHz

3.2x1.6mm [EIA1206]



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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)

shapesAnd 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 °C)

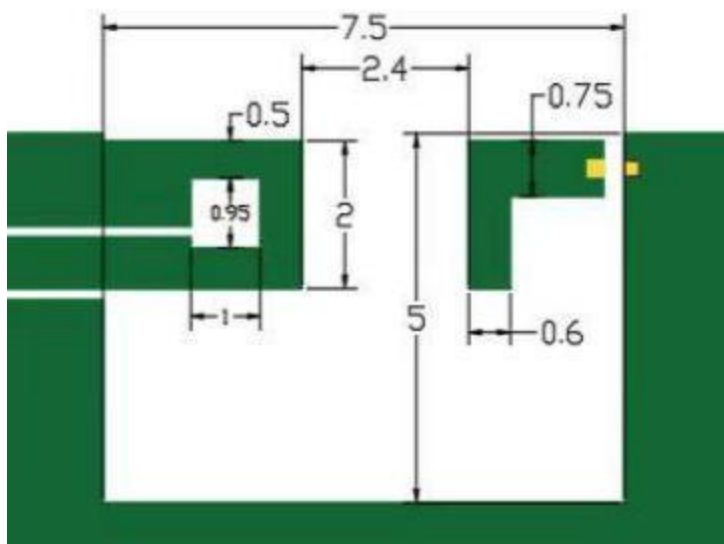
参数Parameter	规格Specification	单位Units
频带 Frequency Band	2400~2500	MHz
极化 Polarization	线极化	
*最大增益 Peak Gain	5.87	dBi
*效率 Efficiency	79.62	%
阻抗 Impedance	50	Ω

* 测试板尺寸60mm*30mm，净空区尺寸12.0mm*5.2mm。Test board size 60mm * 30mm, clearance area size 12.0mm * 5.2mm.

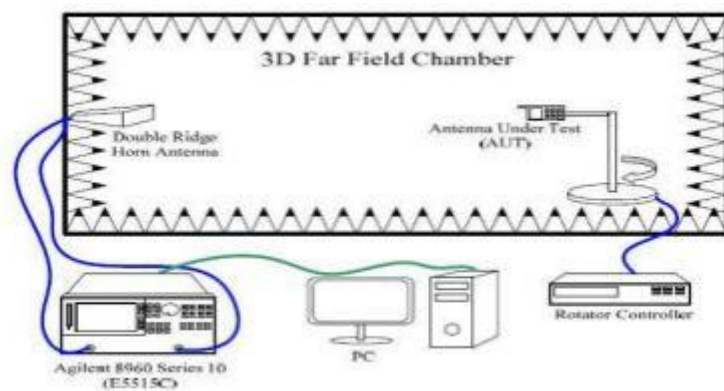
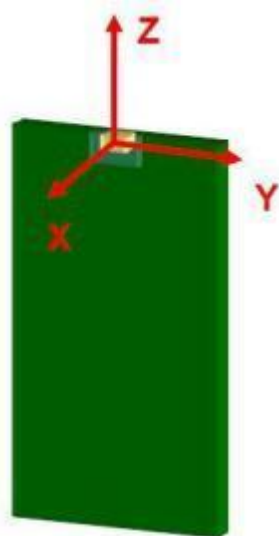
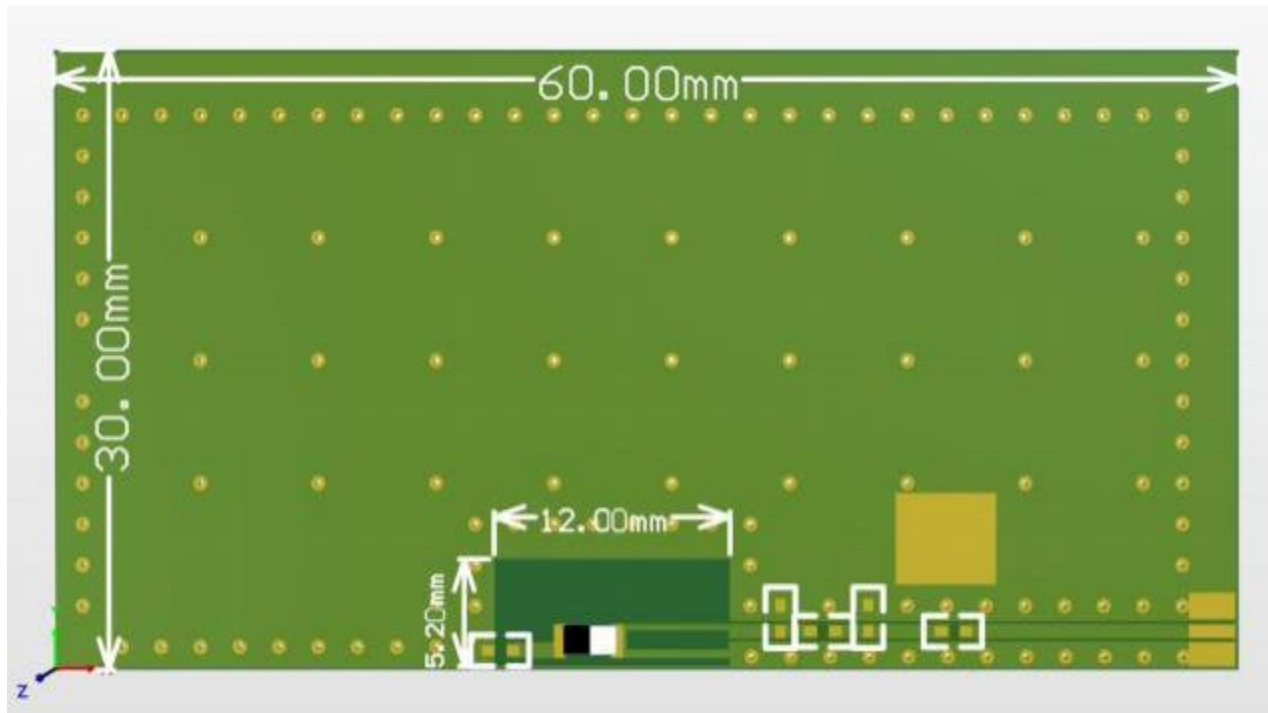
■ 编码 Part Numbering System

CA	2450	31	-	C
Material	Frequency	Size		Type

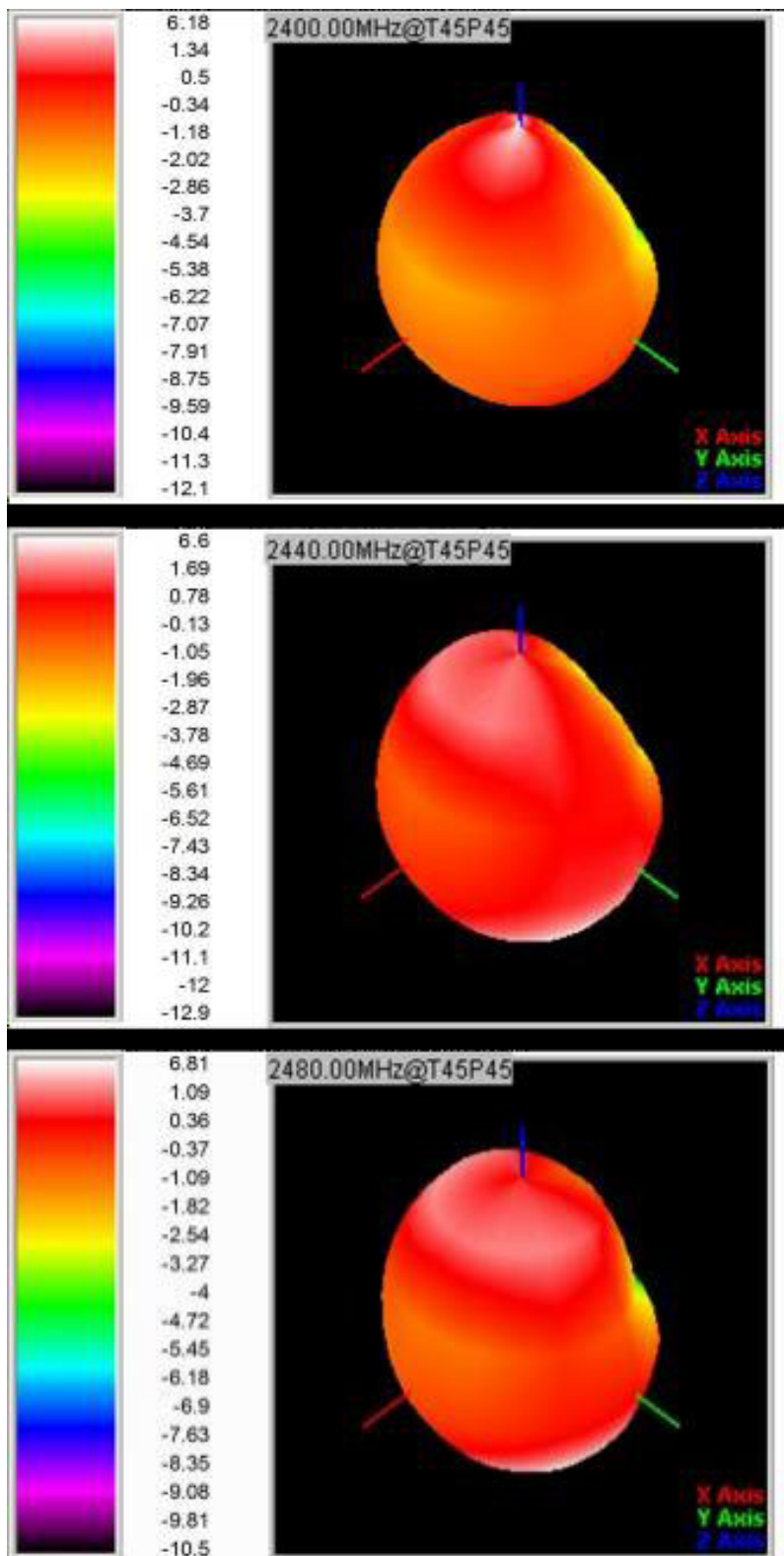
■ 推荐PCB Recommend PCB Layout



■ 评价板 Evaluation Board

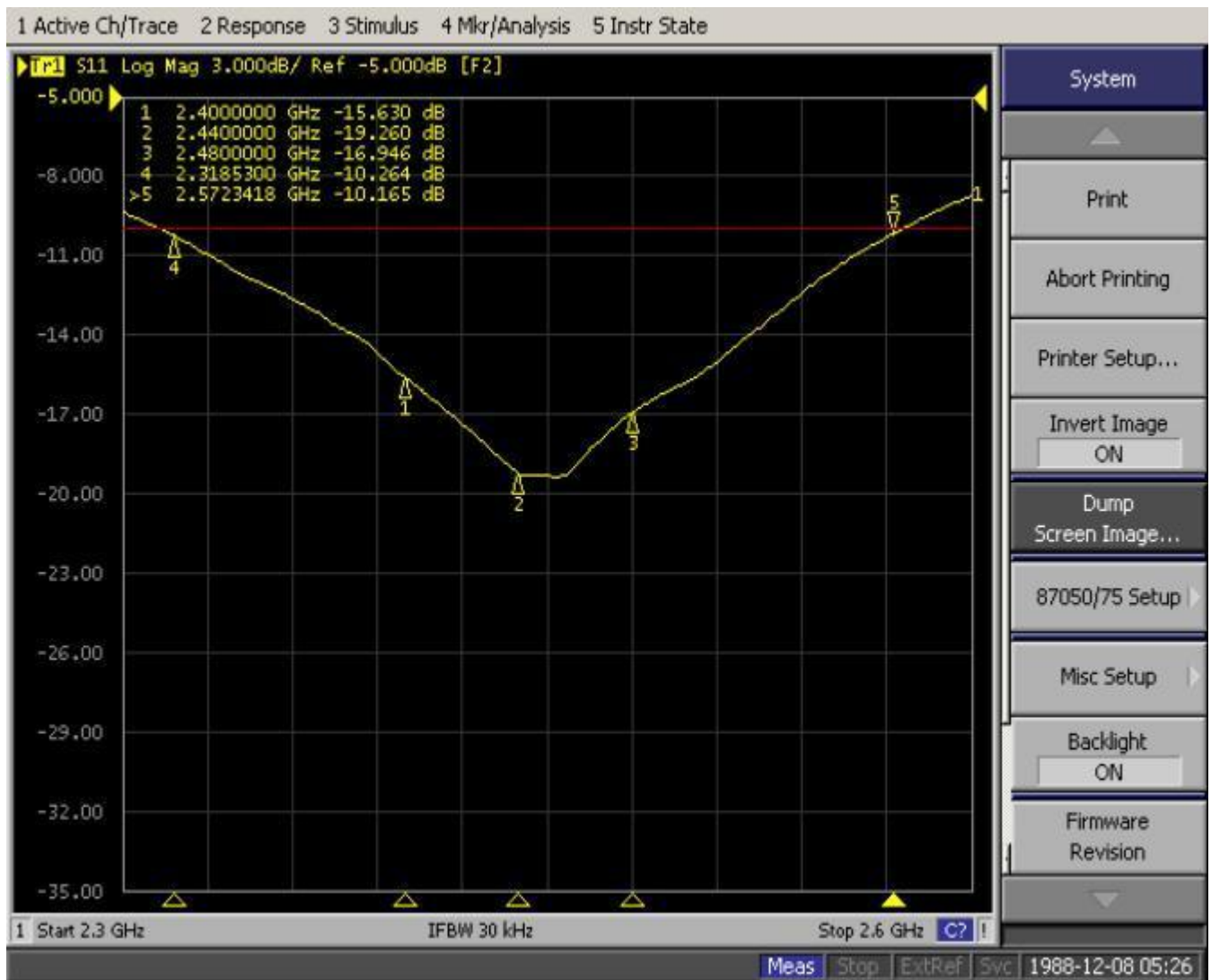


增益&效率 Gain Pattern&Efficiency



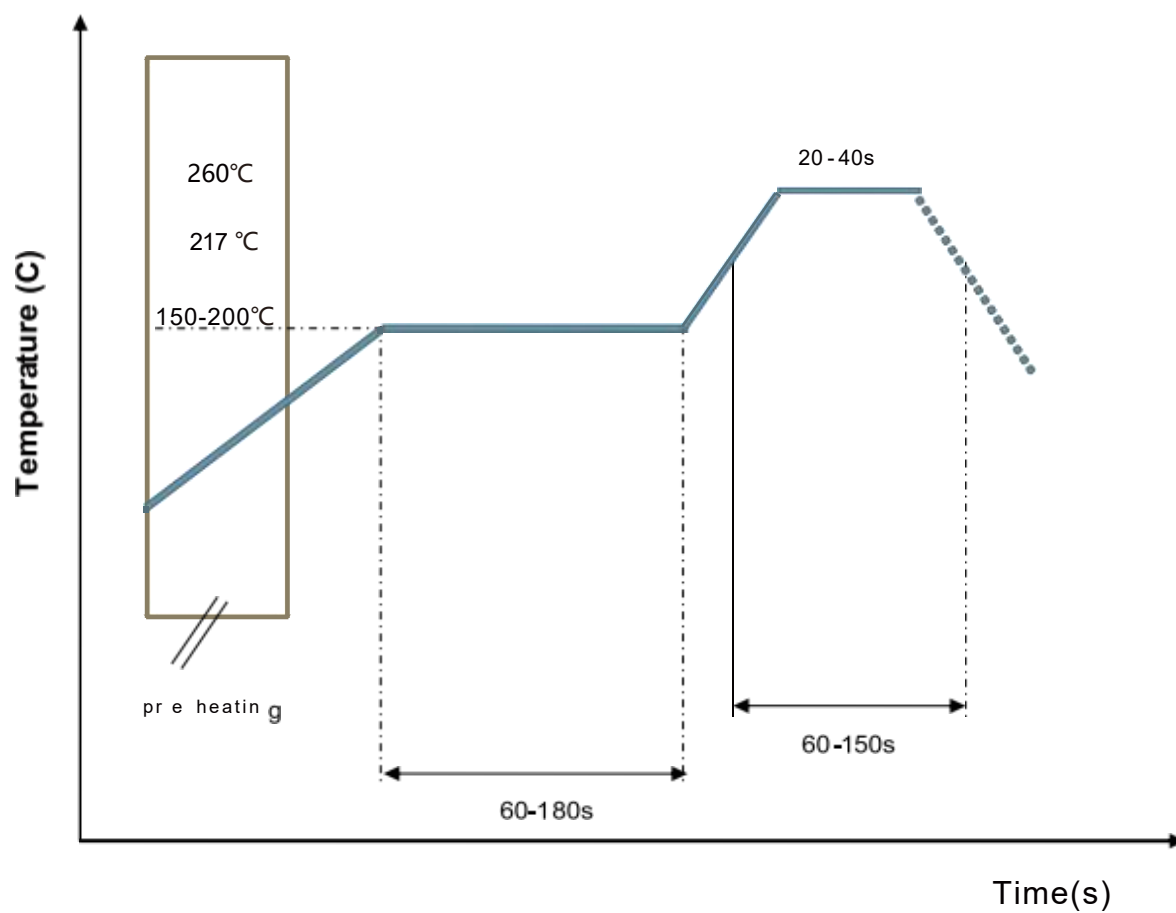
Frequency Mhz	MaxGain dBi	Efficiency %
2400	5.87	70.47
2410	5.54	71.45
2420	5.86	78.16
2430	5.19	75.34
2440	5.21	79.62
2450	5.07	75.86
2460	4.65	69.02
2470	4.84	66.99
2480	4.74	65.61
2490	5.27	69.82
2500	4.49	62.95

■ 频率特性 FREQUENCY CHARACTERISTICS



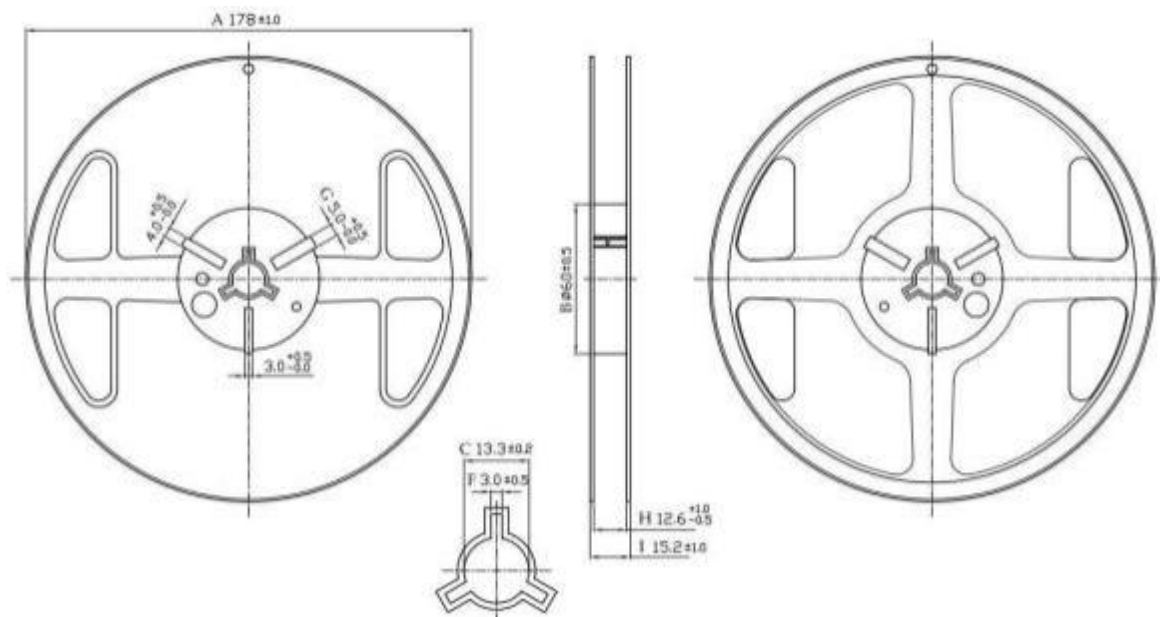
■ 推荐回流剖面

RECOMMENDED REFLOW PROFILE

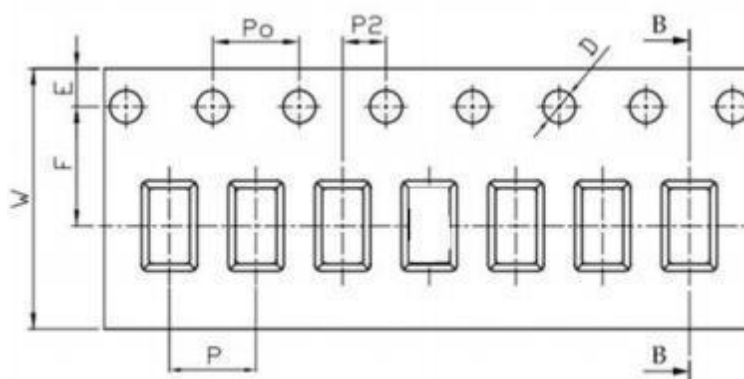


■ 包装形式 Packaging Style

□ 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 -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

Device	Package	Net Weight	Carrier	Quantity	HSF Status
CA-2450-31-C	3216	0.0089g	Tape&Reel	5000pcs	RoHS compliant

Revision history

Date	Revision	Description of changes
2018-06-12	1.0	First Version