SMD CERAMIC ANTENNA
Data Sheet

CA-2450-31-G

For 2400-2484MHz

3.2x1.6mm [EIA1206]

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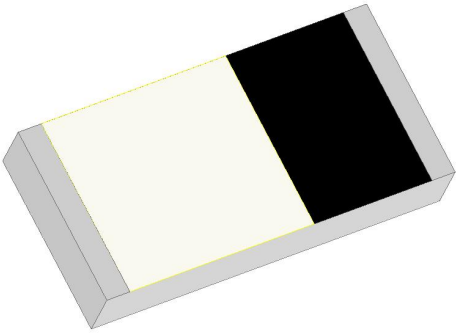
Feature

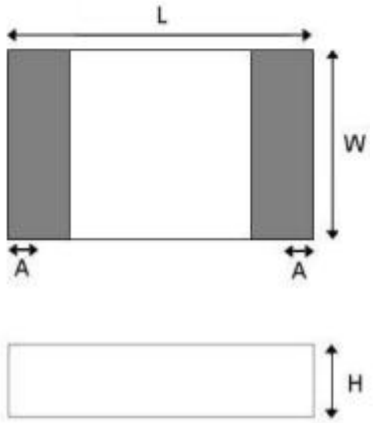
- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain



Application

- Bluetooth
- IEEE8 02.11g/b
- Zigbee systems
- etc...

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

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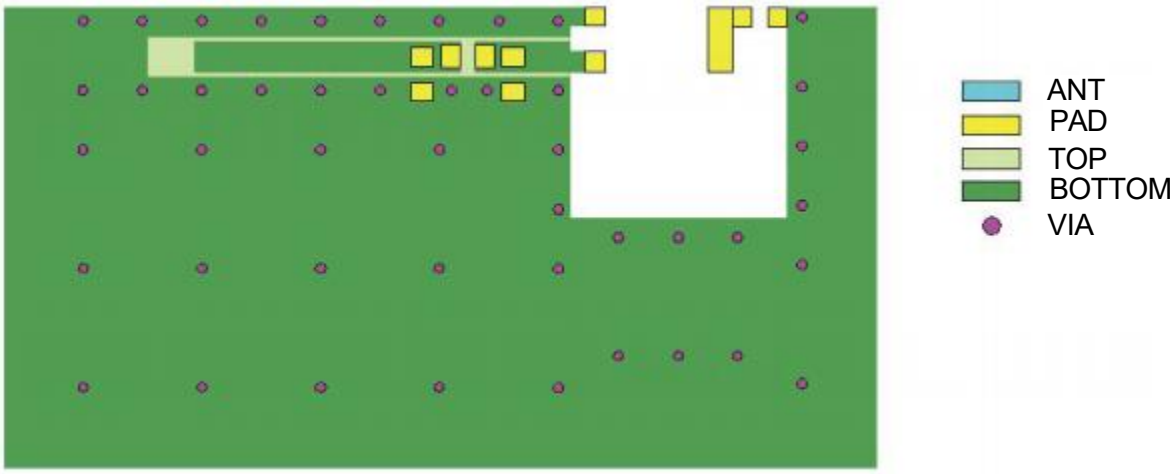
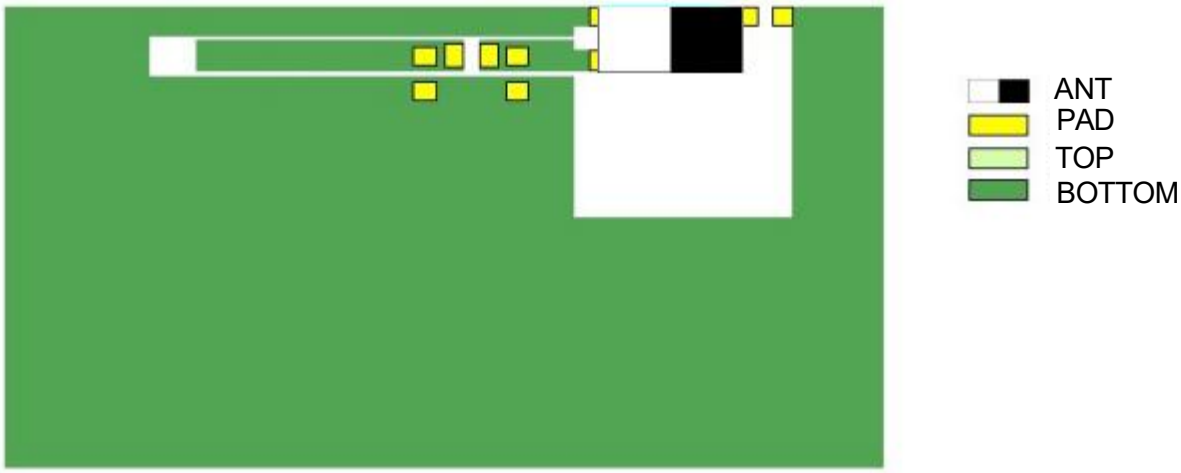
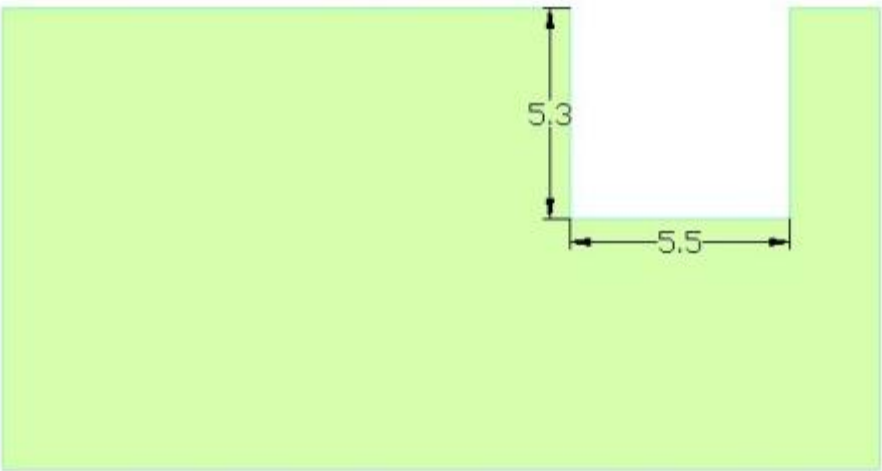
Evaluation Board







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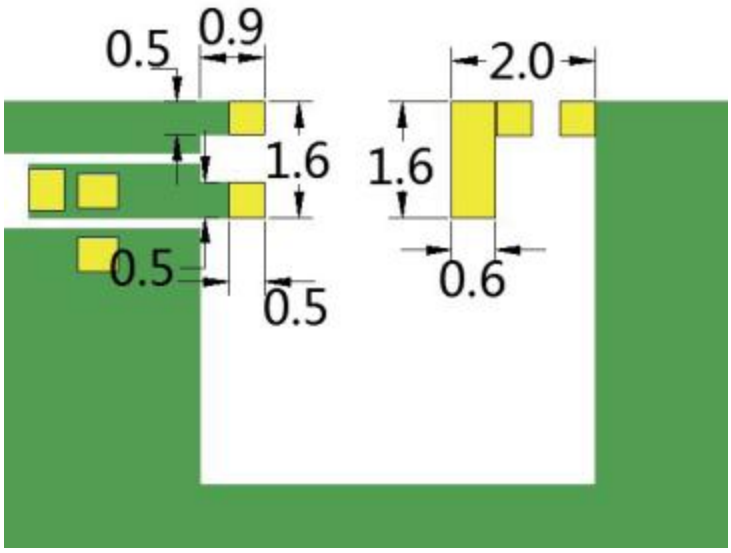
Electrical Characteristics per line(TA=25℃)

Parameter	Specification	Units
Frequency Band	2400~2483	MHz
Polar ization	Line	
* Peak Gain	2.67	dBi
* Efficiency	72.30	%
Im pendance	50	Ω

■ Part Numbering System

CA	-	2450	-	31	-	G
Material		Frequency		Size		Type



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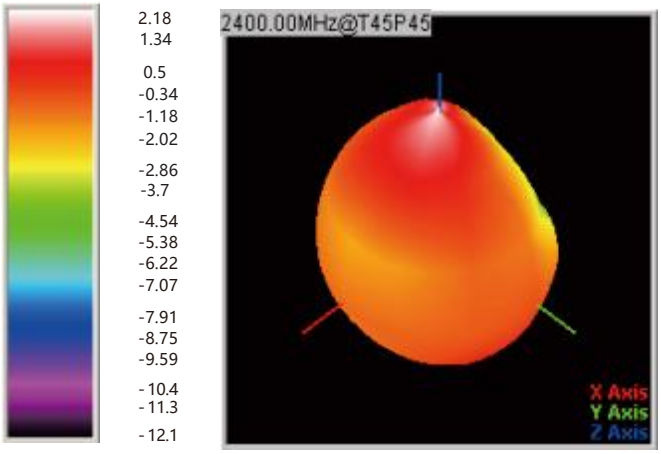
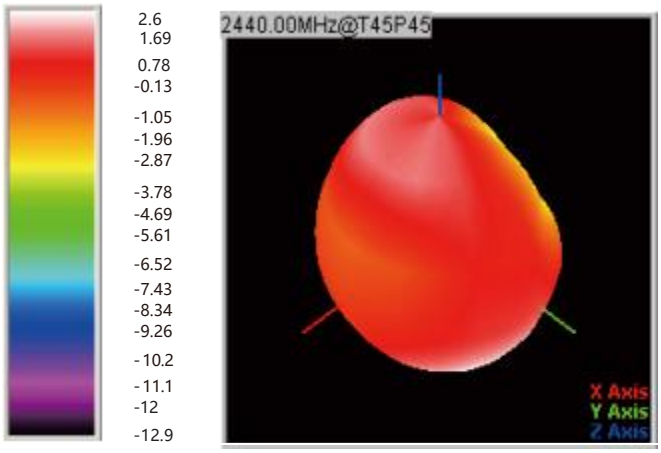
Radiation Patterns

□ 2.4GHz WLAN BAND

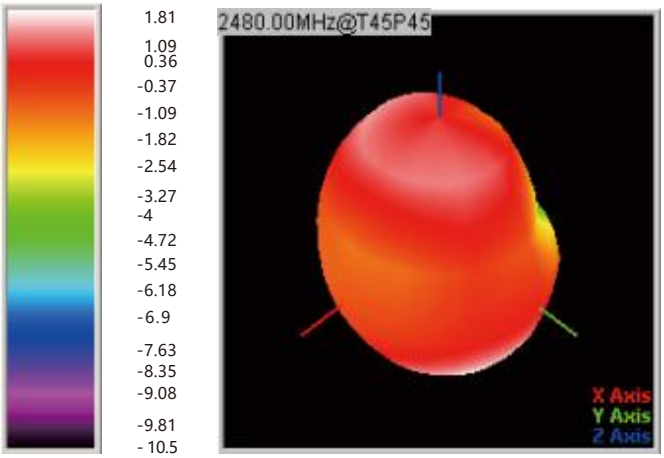
◎ 3D Gain Patte rn (2400 MHz)



◎ 3D Gain Pattern (2440 MHz)



◎ 3D Gain Pattern (2480 MHz)



Freq (MHz)	Effi (%)	Gain (dBi)
2400	74.8	2.67
2410	72.59	2.54
2420	71.6	2.25
2430	70.29	2.07
2440	71.23	2.16
2450	72.3	2.37
2460	71.04	2.52
2470	65.95	2.35
2480	64.42	2.42
2490	62.59	2.31
2500	60.01	2.07

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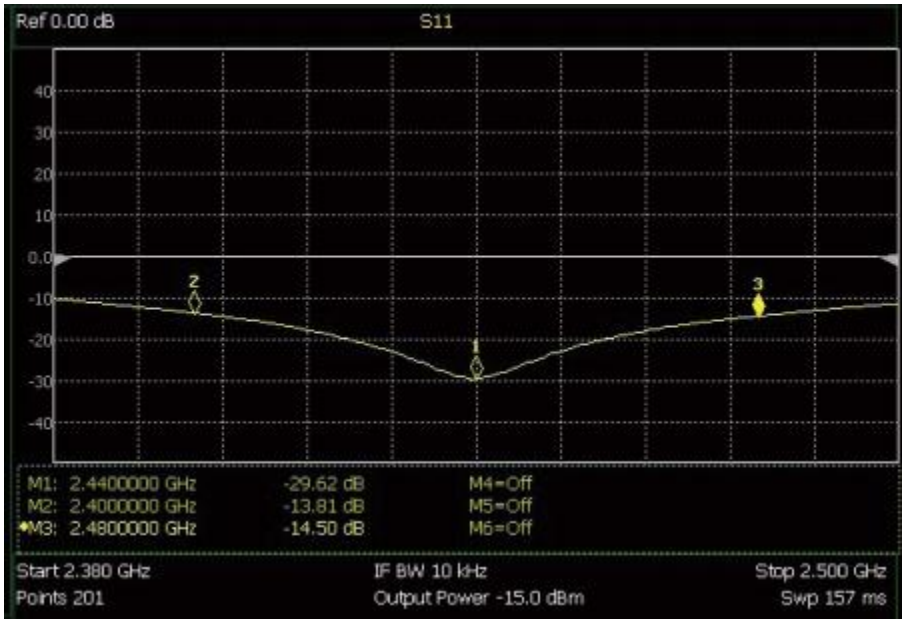
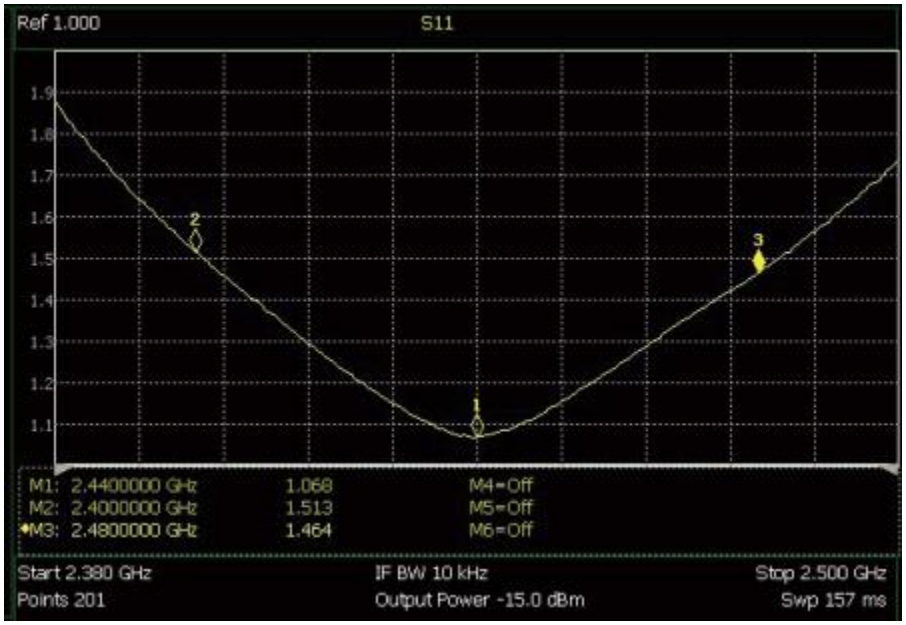
Frequency Characteristics

EFFICIENCY AND VSWR





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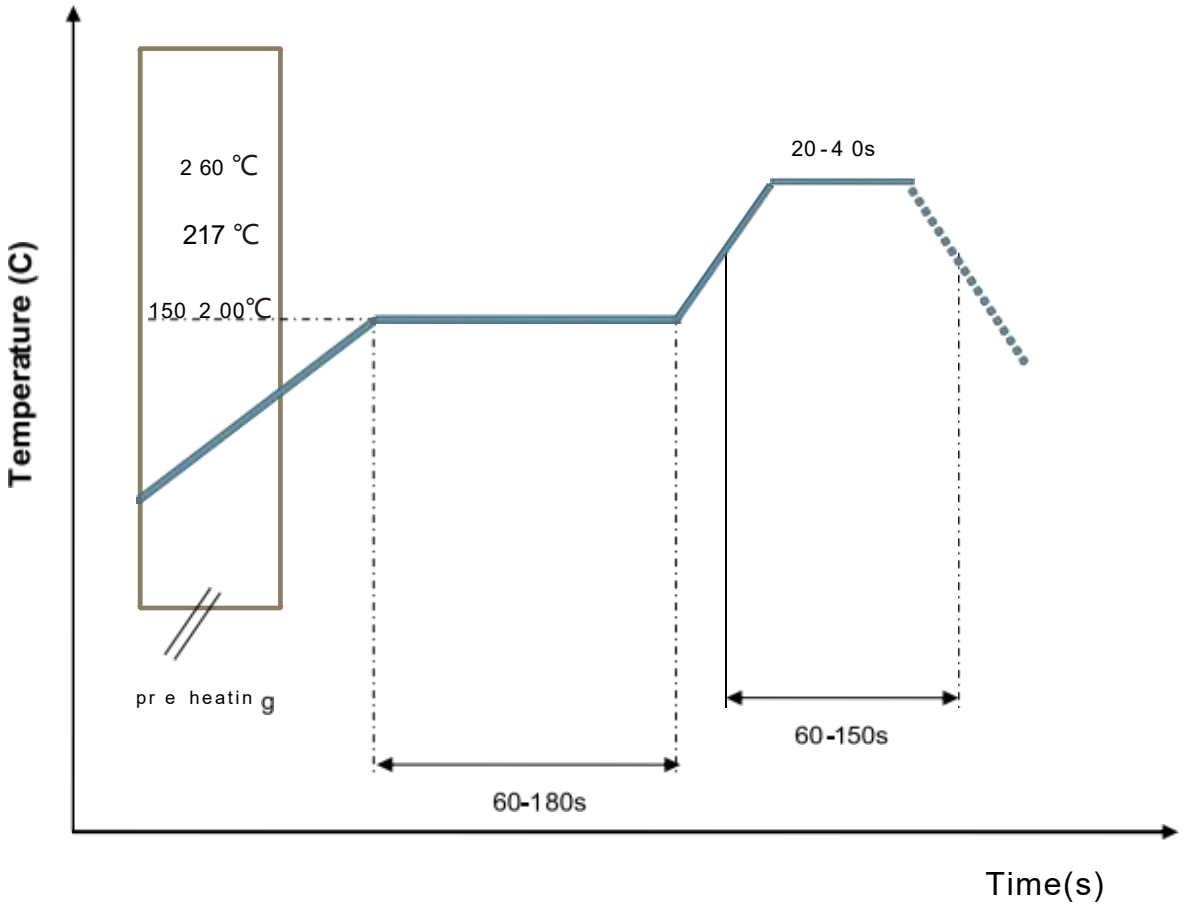
RECOMMENDED REFLOW PROFILE



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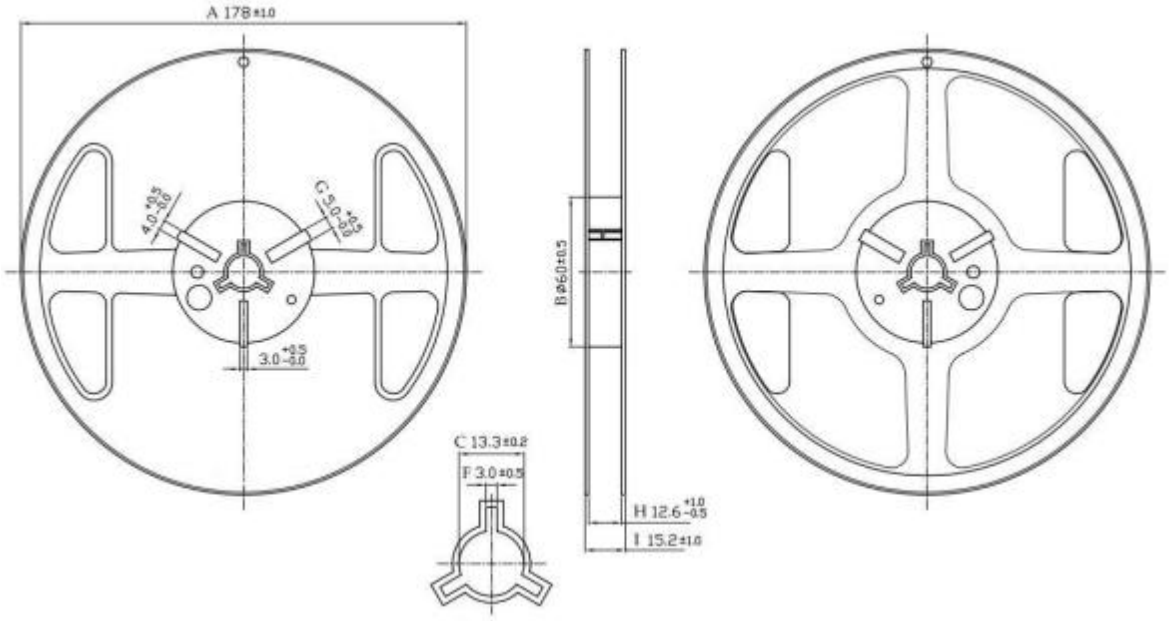
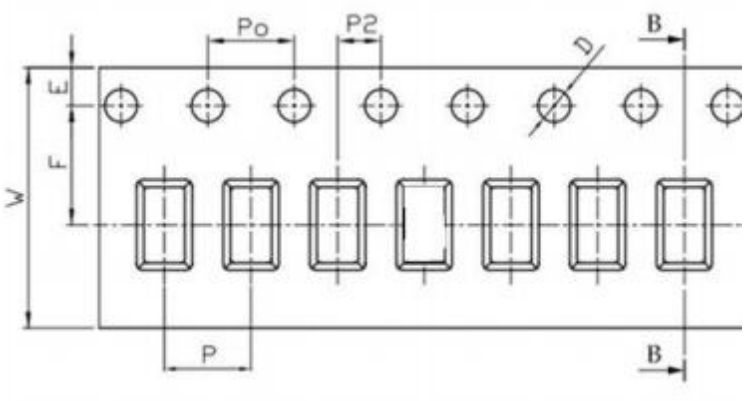
Packaging Style

REEL DIMENSIONS



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

Quantity:5000pieces per 7 reel

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订货信息 Order Information

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

Revision history

Date	Revision	Description of changes
2024-07-17	1.0	First Version

Supplier:Shenzhen Kewei Antenna Design Co., Ltd.
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