SMD CERAMIC ANTENNA
Data Sheet

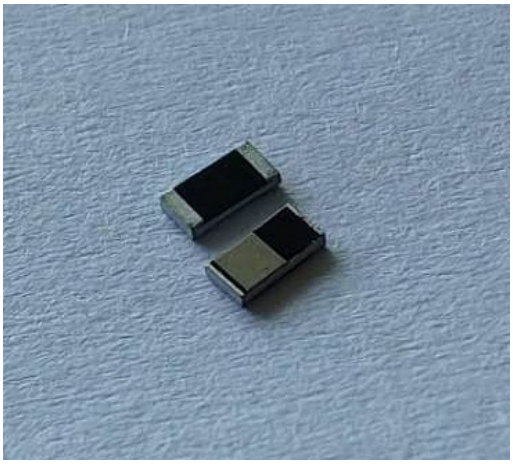
CS-2450-31-A

For 2400-2484MHz

3.2x1.6mm

FEATURES

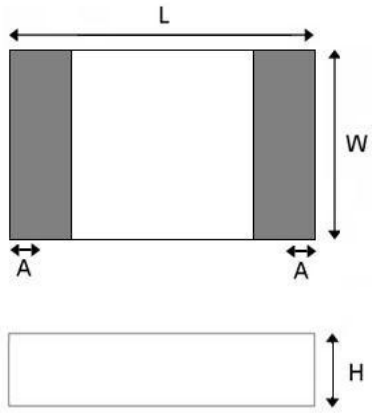
- Light weight,compact
- Wide bandwidth,lowcost
- Built-in antenna with high gain



APPLICATIONS

- Bluetooth
- IEEE802.11g/b
- Zigbee systems,etc...

SHAPES AND DIMENSIONS Dimensions in mm



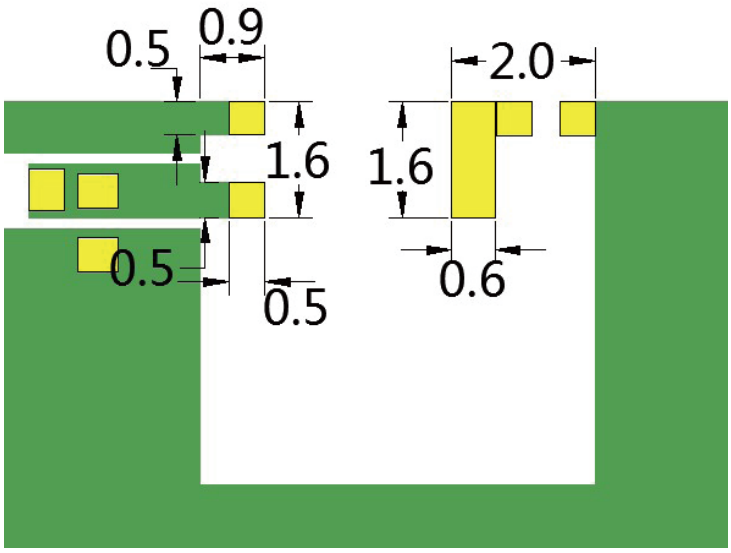
L	W	A	H
3.10±0.10	1.55±0.10	0.40±0.20	0.50±0.10

Electrical Characteristics per line(TA=25℃)

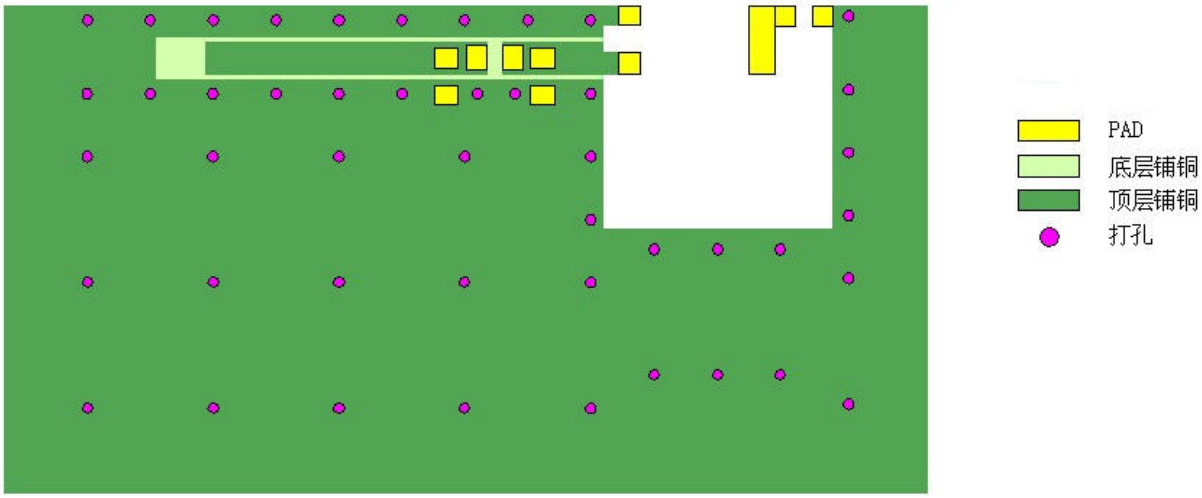
Parameter	Specification	Units
Frequency Band	2400~2483	MHz
Polarization	Line	
Peak Gain	2.6	dBi
Efficiency	72.30	%
Impendance	50	Ω

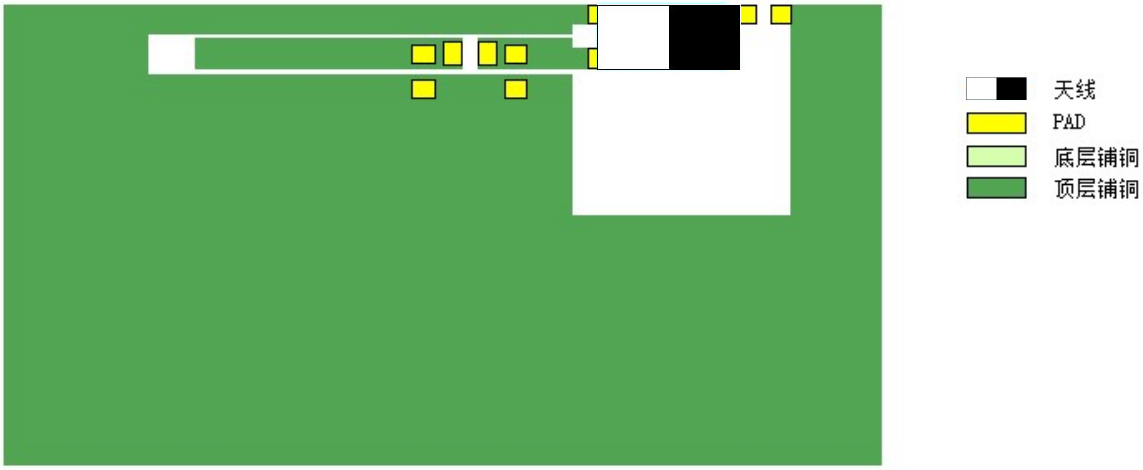
■ Part Numbering System

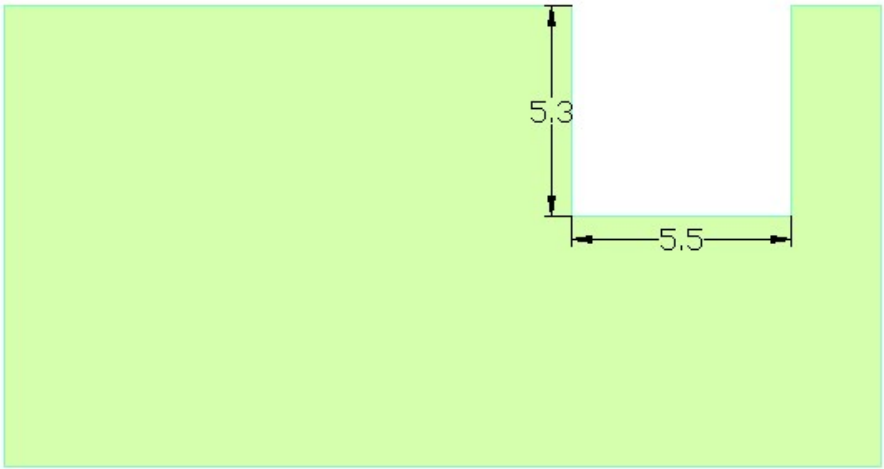
CS	-	2450	-	31	-	A
Material		Frequency		Size		Type



EVALUATION BOARD



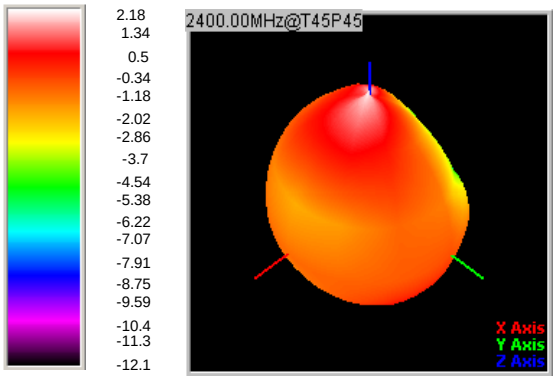




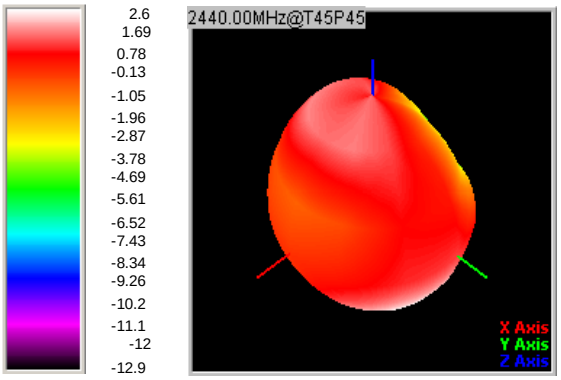
■RADIATION PATTERNS

□2.4GHz WLAN BAND

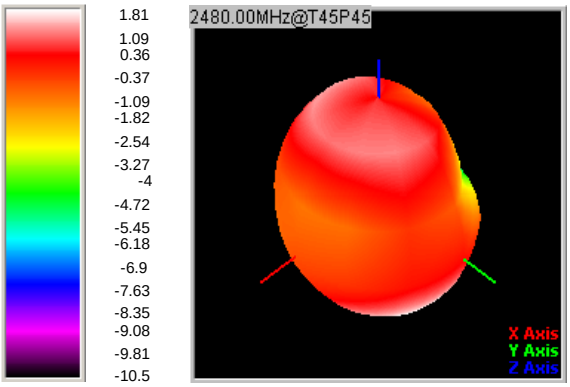
◎ 3D Gain Pattern (240 0 MHz)



◎ 3D Gain Pattern (2440 MHz)



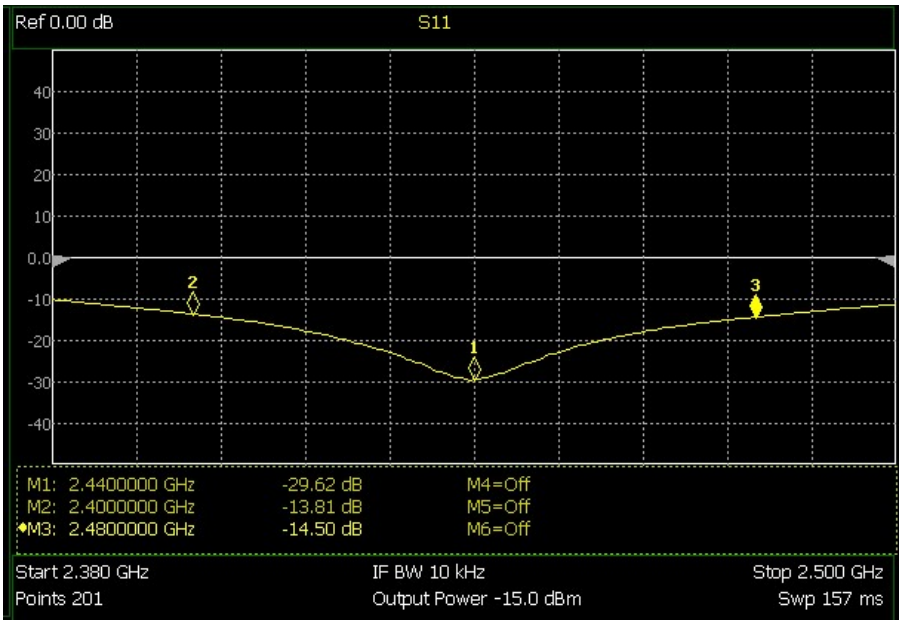
◎ 3D Gain Pattern (2480 MHz)

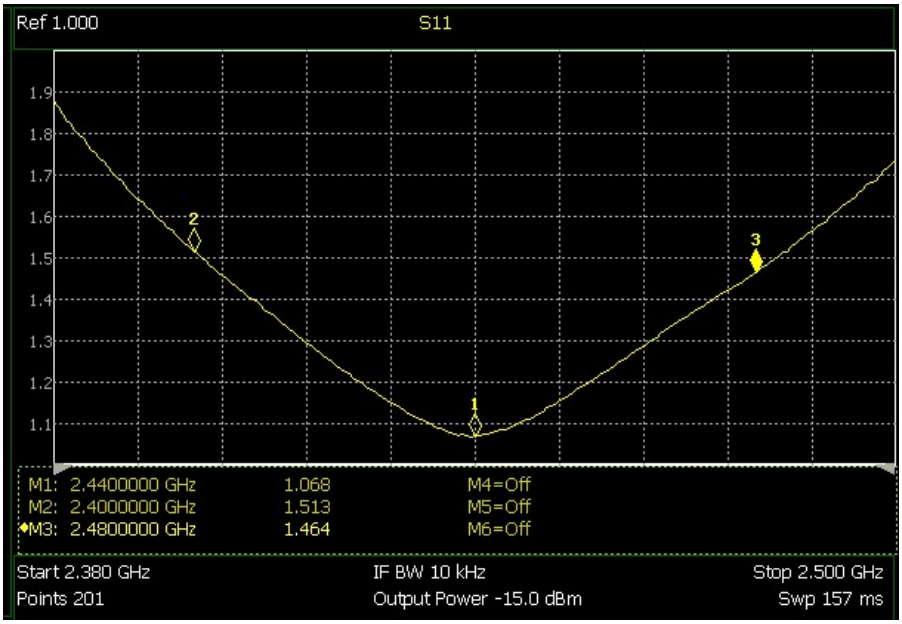


Freq (MHz)	Effi (%)	Gain (dBi)
2400	74.8	2.18
2410	72.59	2.54
2420	71.6	2.25
2430	70.29	2.07
2440	71.23	2.60
2450	72.3	2.37
2460	71.04	2.52
2470	65.95	2.35
2480	64.42	1.81
2490	62.59	2.31
2500	60.01	2.07

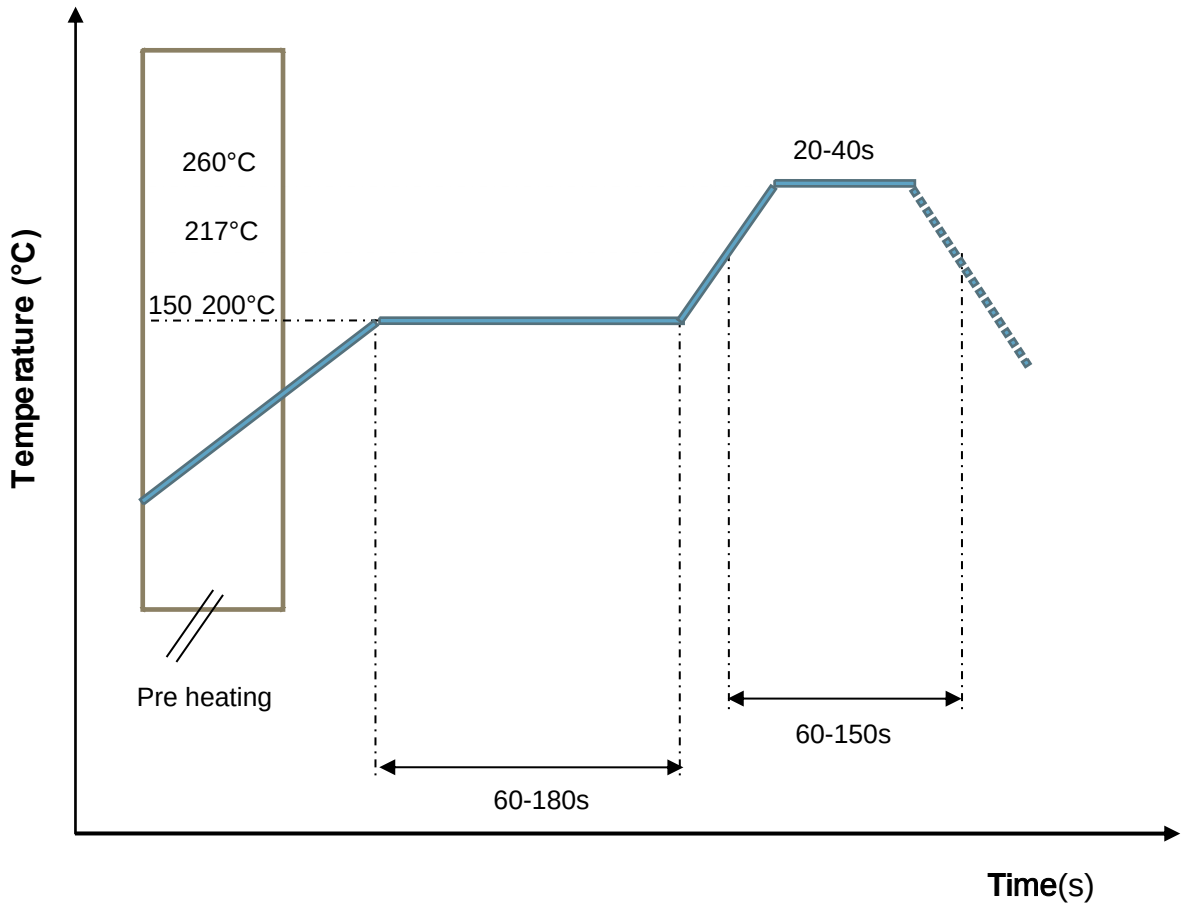
FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR



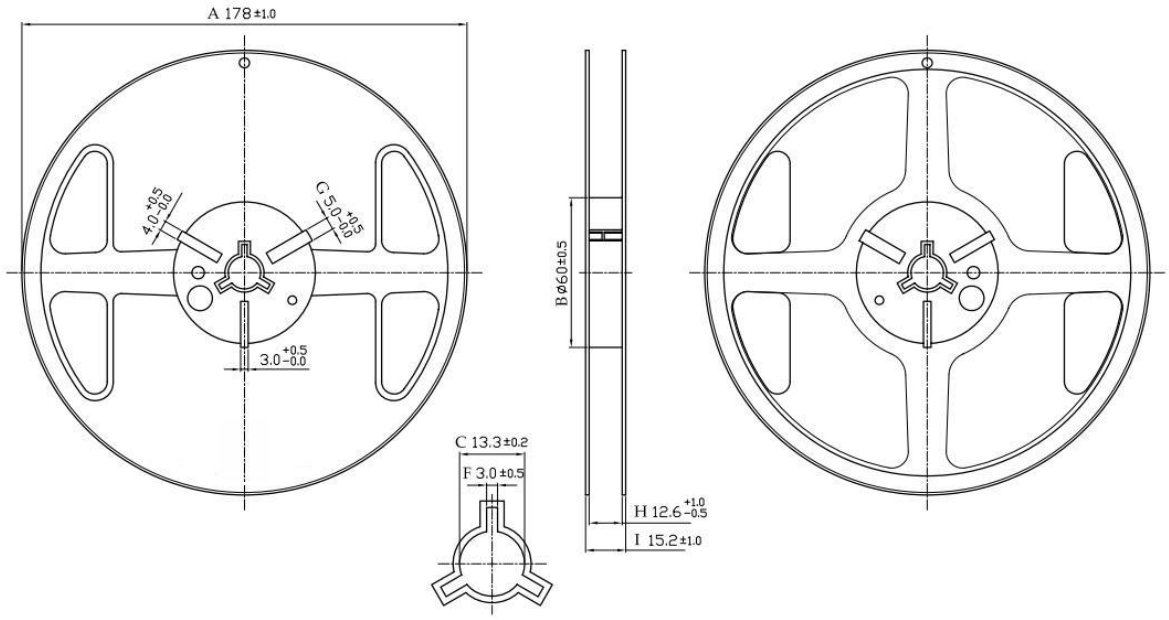


RECOMMENDED REFLOW PROFILE

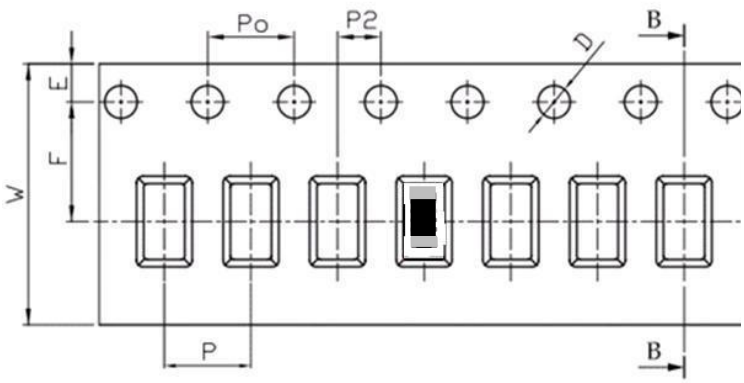


■PACKAGING STYLE

□REEL DIMENSIONS



□TAPE DIMENSIONS



Feature	Specifications	Tolerances
W P	8.00 4.00	±0.30 ±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 10Po	4.00 40.00	±0.10 ±0.20

Typing Quantity: 5000 pieces per 7” reel

Order Information

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

Revision history

Date	Revision	Description of changes
2018-11-5	1.0	First Version
2022- 8- 5	1.1	Update the package information

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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