

SMD CERAMIC ANTENNA

Data Sheet

CA-2450-31

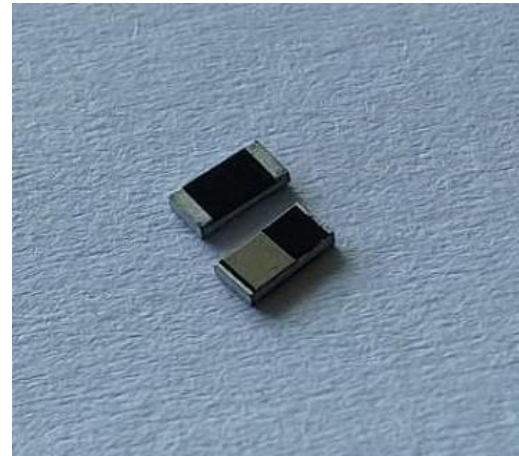
For 2400-2484MHz
3.2x1.6mm [EIA1206]

FEATURES

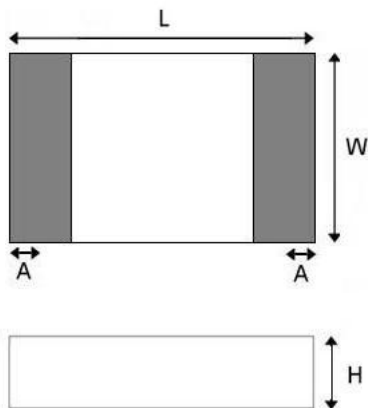
- Light weight,compact
- Wide bandwidth,lowcost
- Built-in antenna with high gain

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

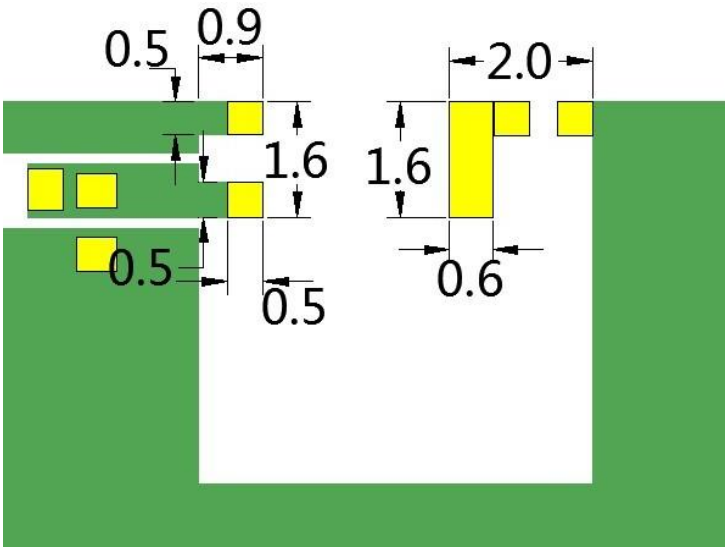
■ ELECTRIC SPECIFICATIONS

Product type	CA-2450-31
Center Frequency Range	2450MHZ
Input Impedance	50 Ω

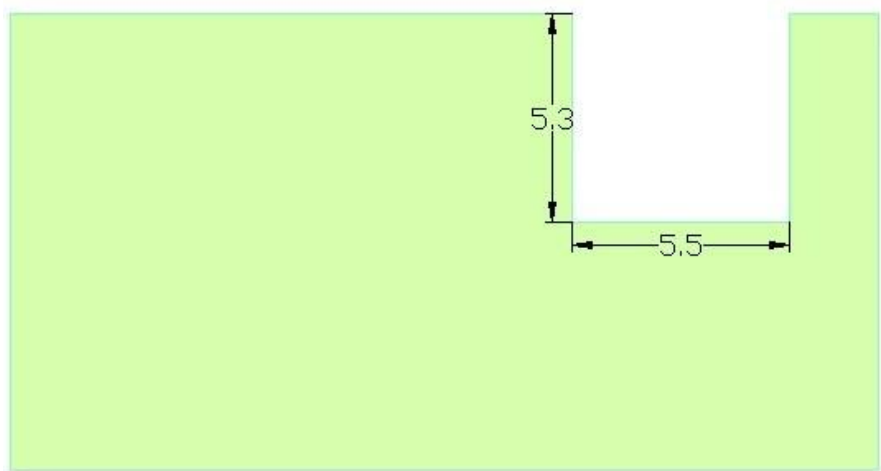
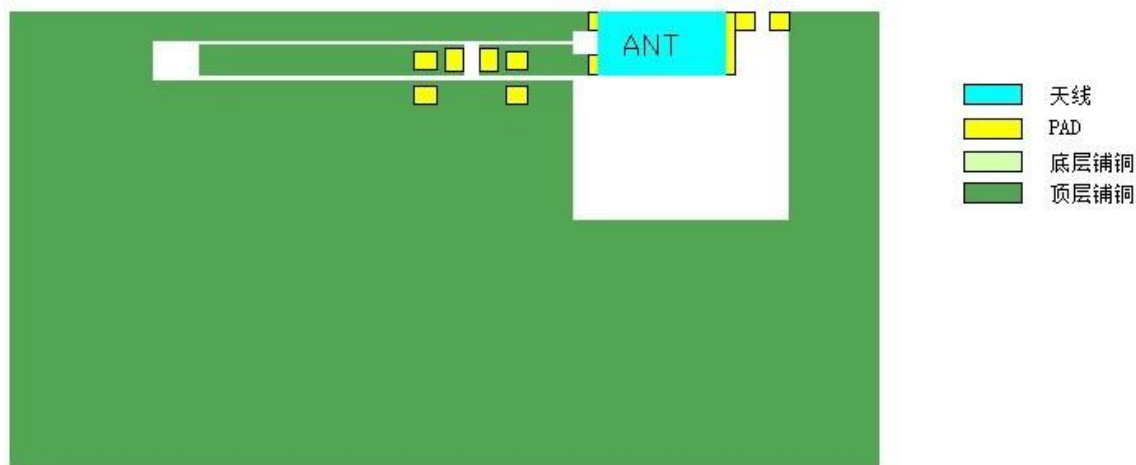
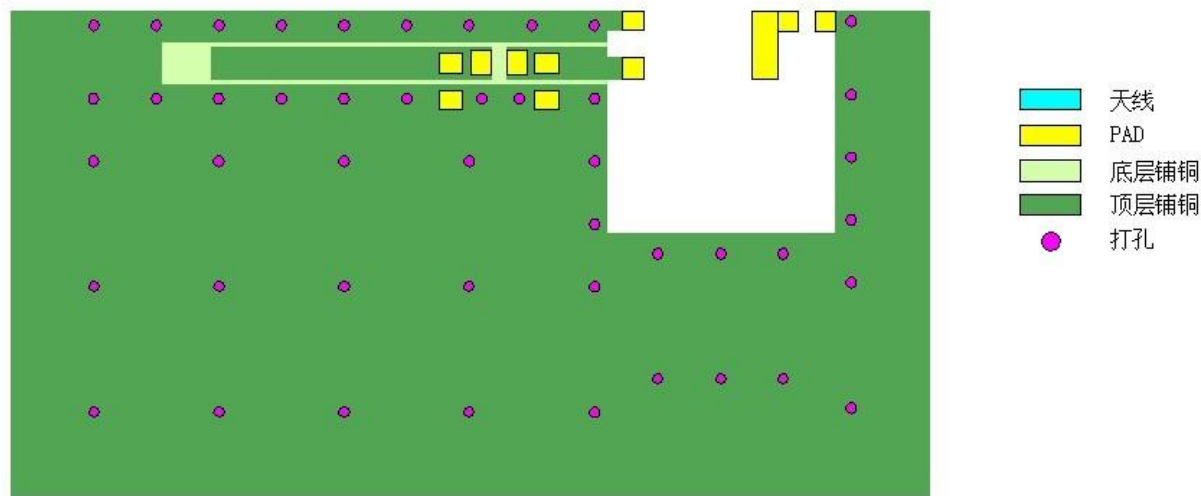
■ PART NUMBERING SYSTEM

CA-2450-31-A

MaterialFrequencySizeType



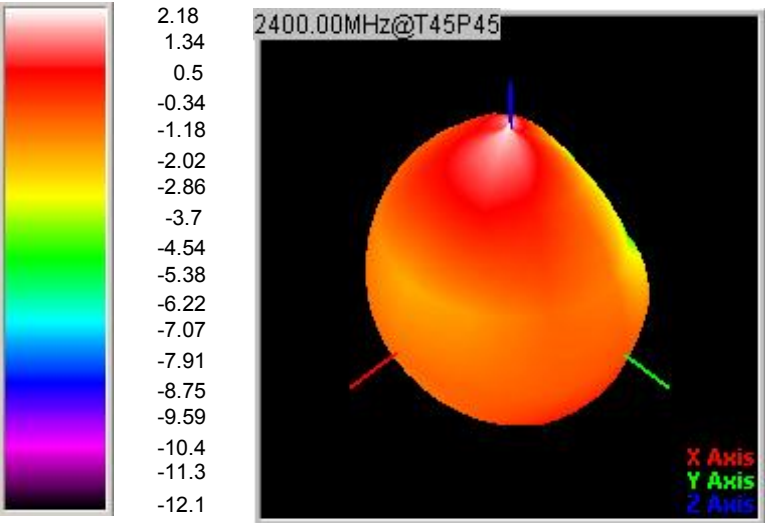
EVALUATION BOARD



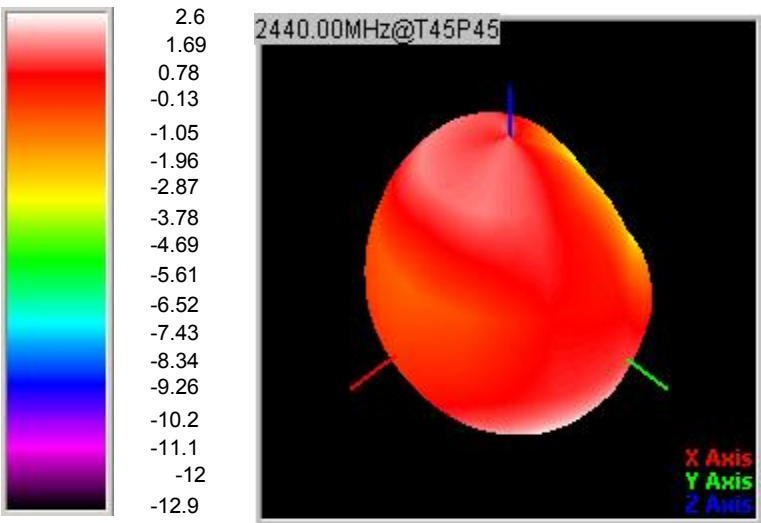
■RADIATION PATTERNS

□2.4GHz WLAN BAND

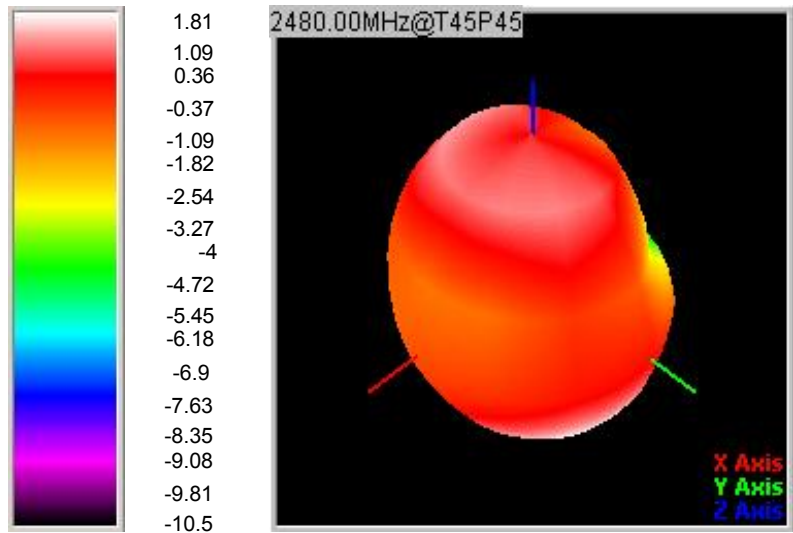
◎ 3D Gain Pattern (2400 MHz) 2.18dBi



◎ 3D Gain Pattern (2440 MHz) 2.6dBi

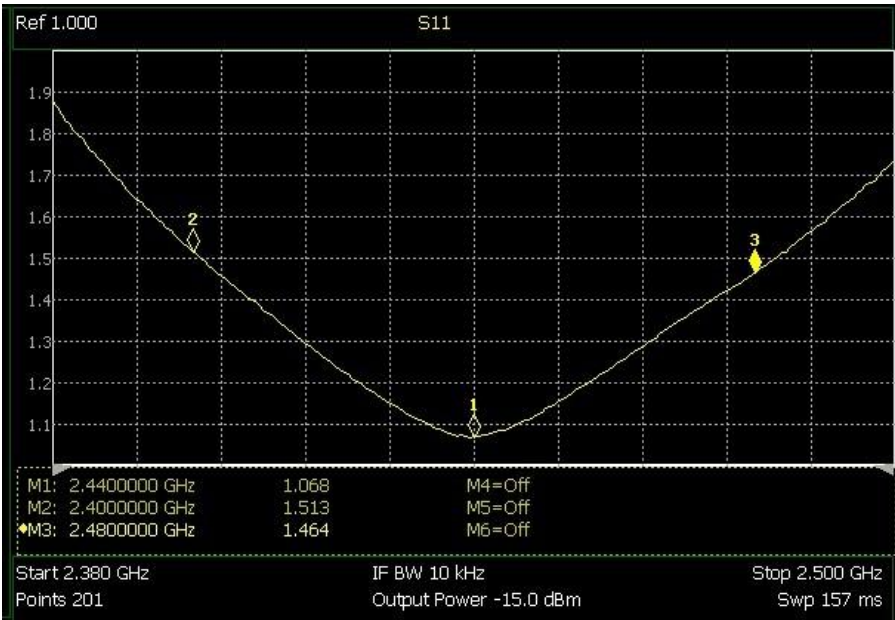
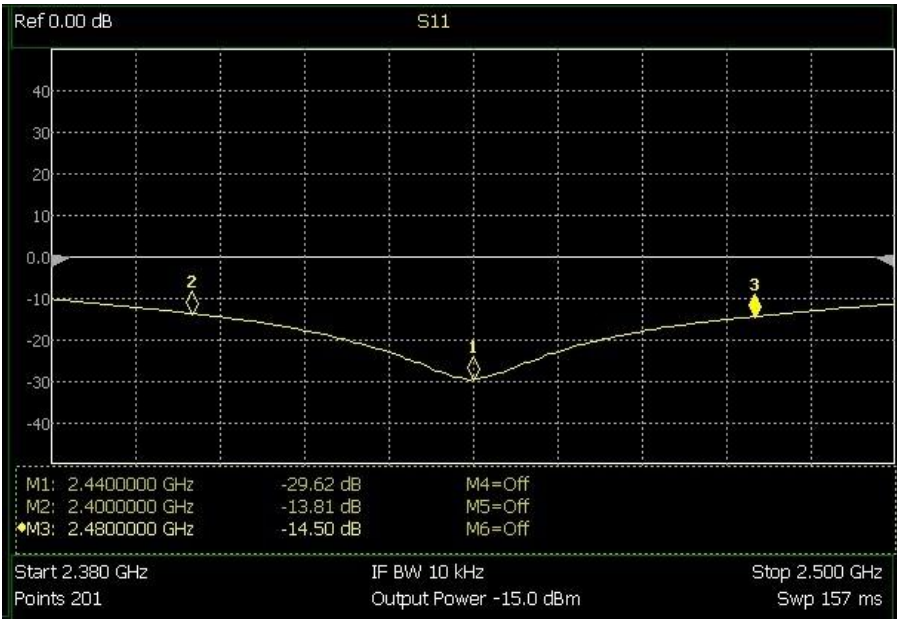


◎ 3D Gain Pattern (2480 MHz) 1.81dBi

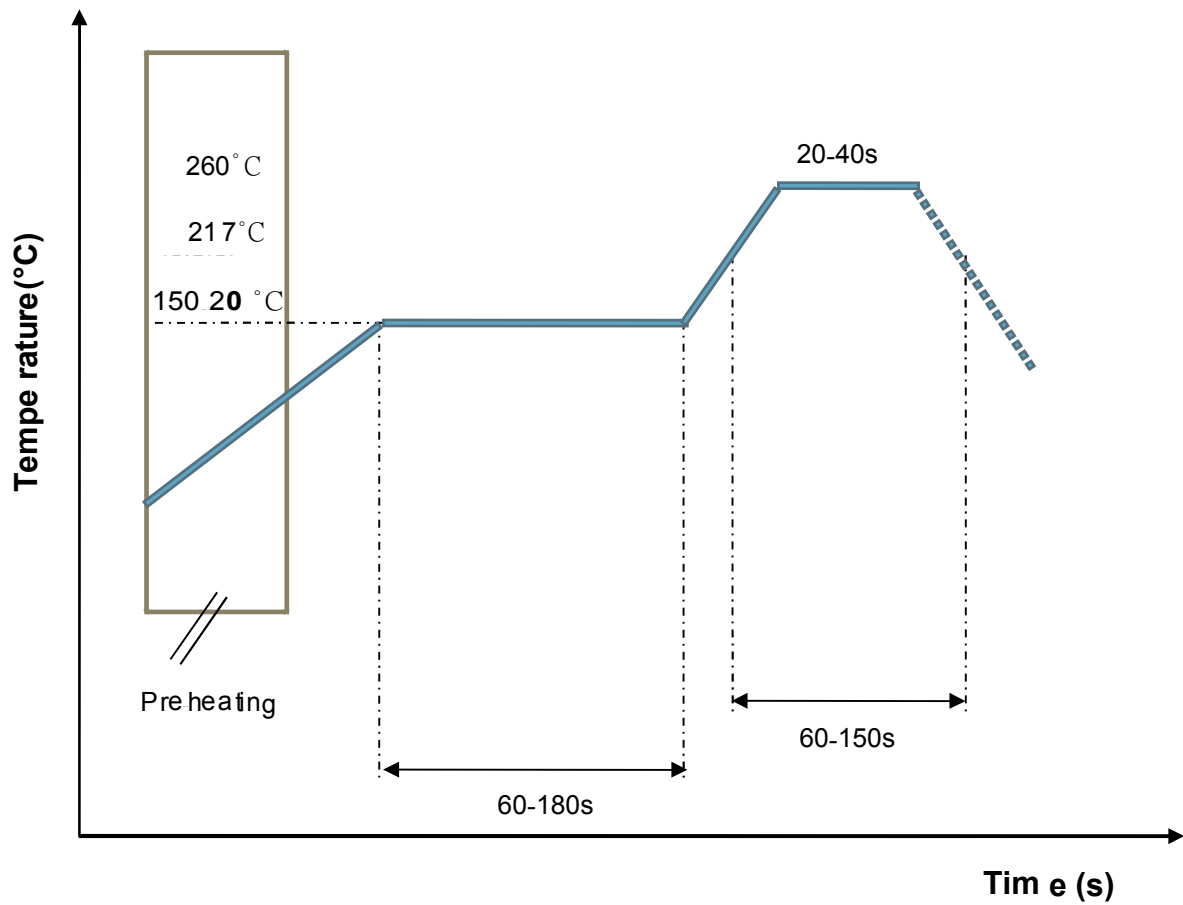


FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR

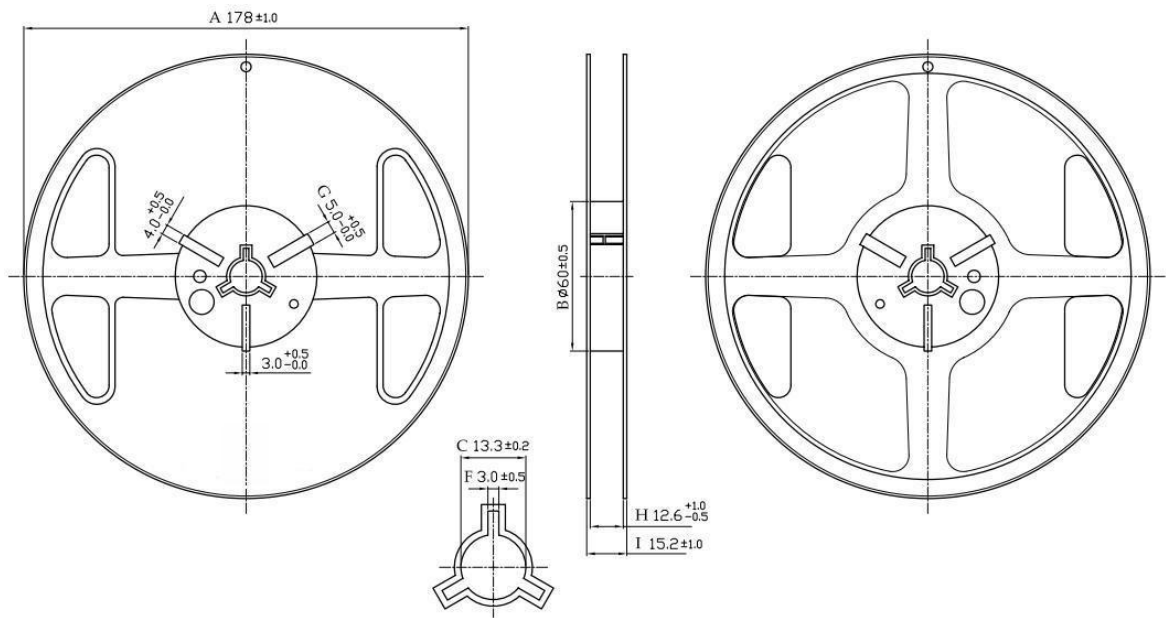


RECOMMENDED REFLOW PROFILE

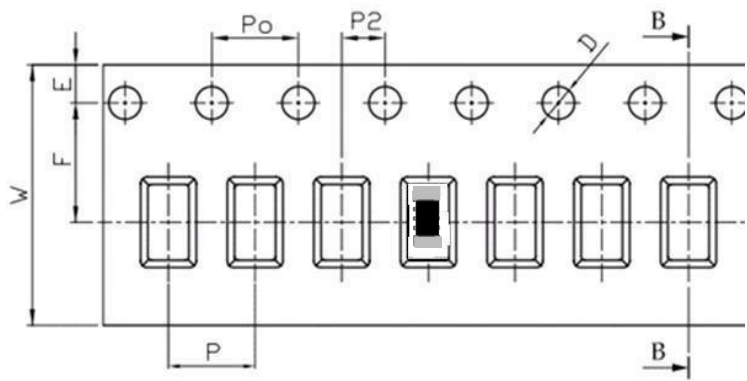


■PACKAGING STYLE

□REEL DIMENSIONS



□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
P ₀	4.00	±0.10
10P ₀	40.00	±0.20

Typing Quantity: 5000 pieces per 7" reel

SMD CERAMIC ANTENNA

Data Sheet

CA-2450-31-SE

For 2400-2484MHz

3.2x1.6mm [EIA1206]

CA-2450-52-SE

For 2400-2484MHz

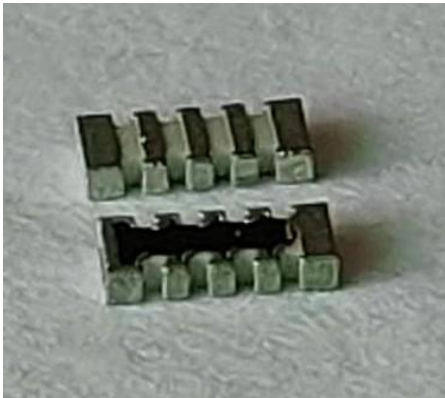
5.0x2.5mm [EIA5025]

FEATURES

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

APPLICATIONS

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

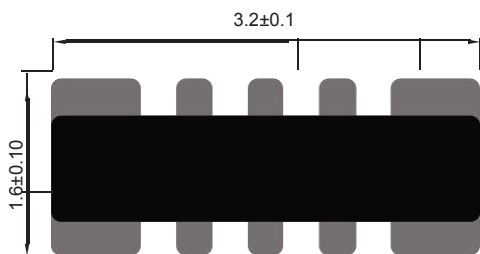


SHAPES AND DIMENSIONS

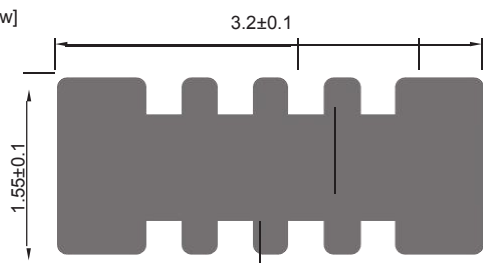
Dimensions in mm

CA-2450-31-SE

[Top view]



[Bottom view]

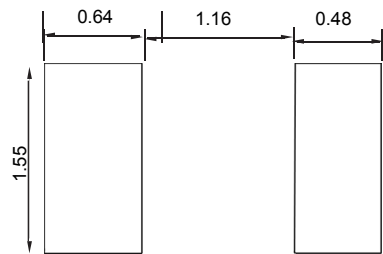


RECOMMENDED LAND PATTERN



Dimension s in mm

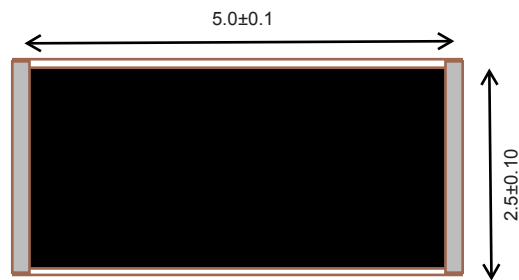
OLDER RESIST PATTERN



Dimensions in mm

CA-2450-52-SE

[Top view]



[Bottom view]

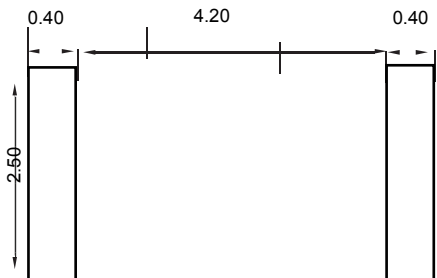


RECOMMENDED LAND PATTERN



Dimensions in mm

OLDER RESIST PATTERN



Dimensions in mm

ELECTRICAL SPECIFICATIONS

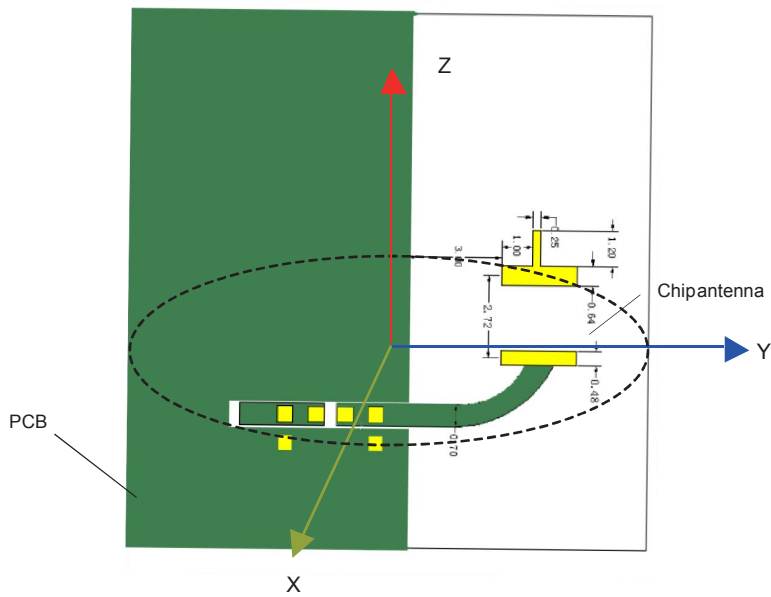
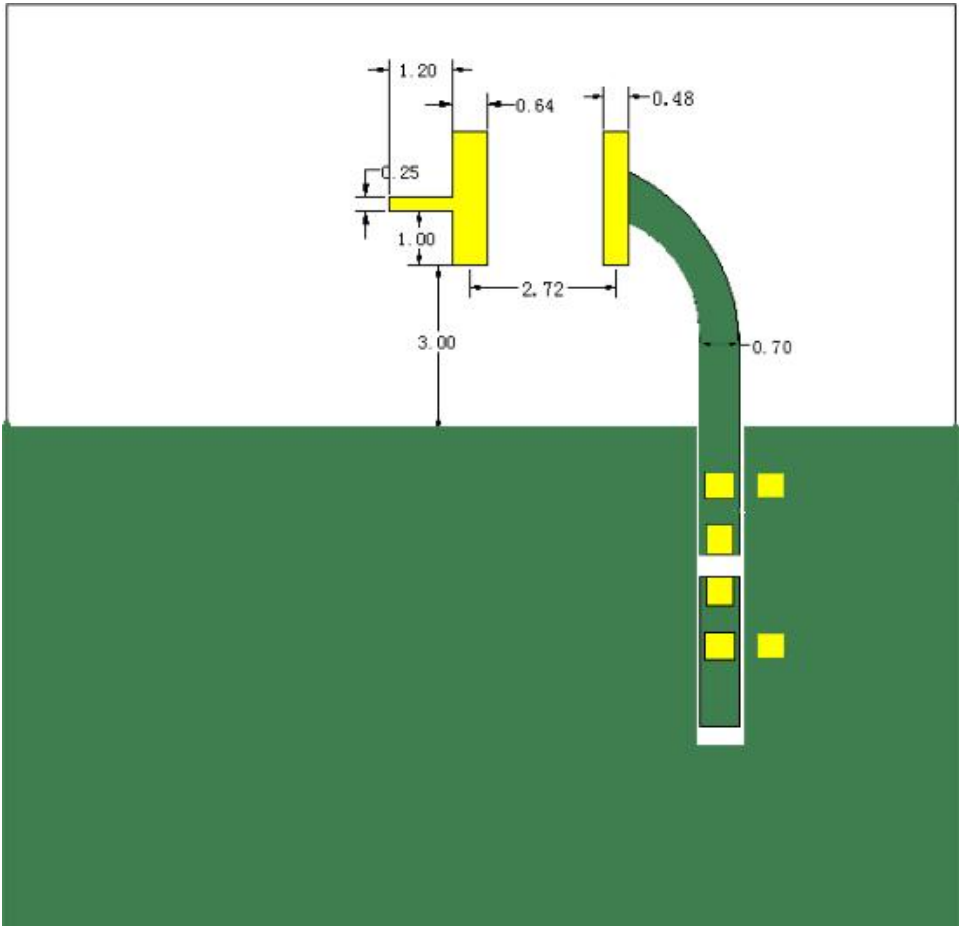
Product type	CA-2450-31-SE CA-2450-52-SE
Center Frequency Range	2450MHz
Input Impedance	50 Ω

PART NUMBERING SYSTEM

CA - 2450 - 31 /52 - SE

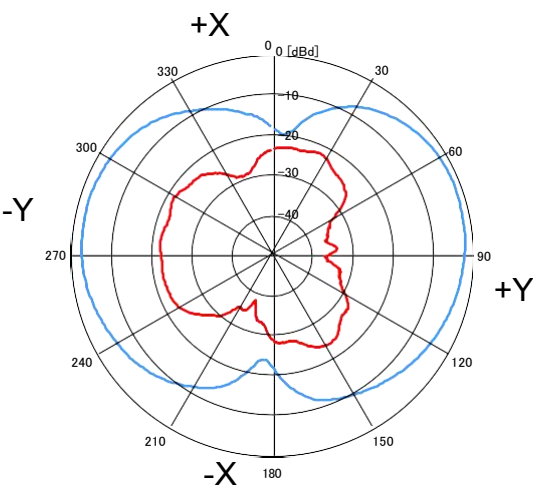
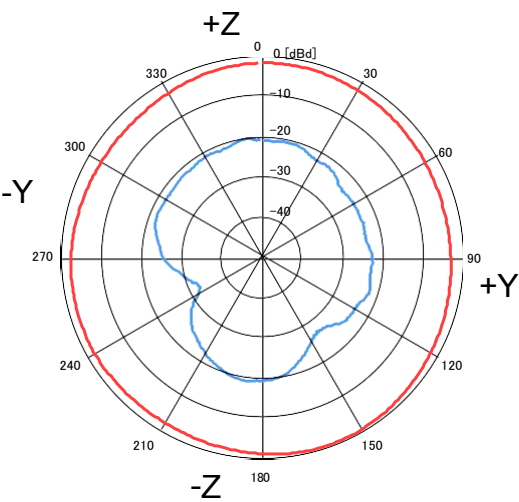
Material Frequency Size Series

EVALUATION BOARD



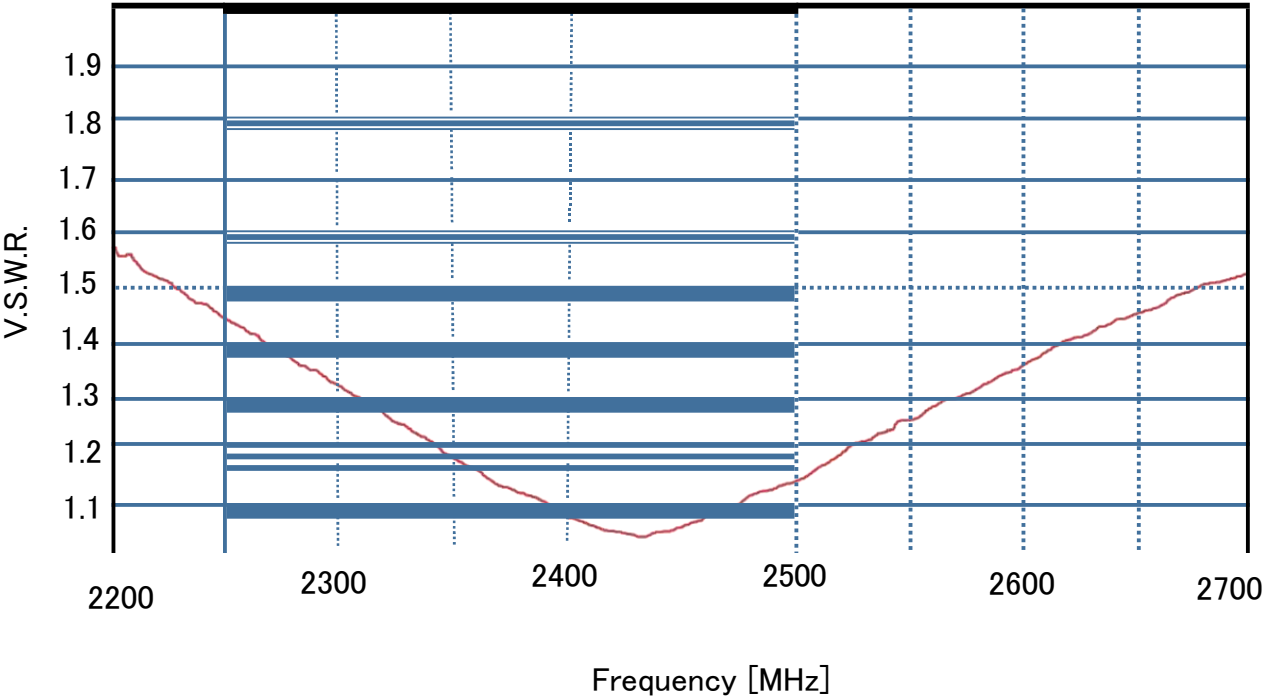
RADIATION PATTERNS

2.4GHz WLAN BAND

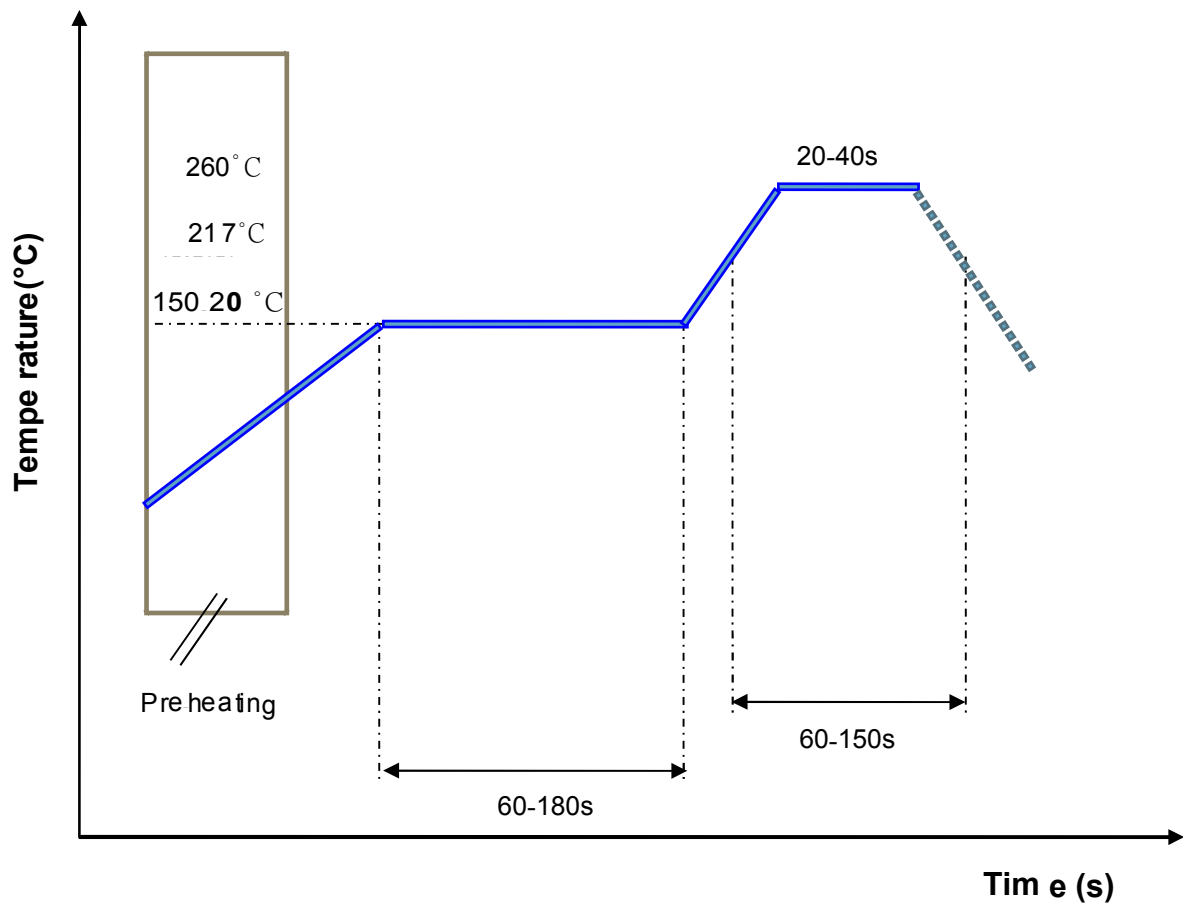


FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR

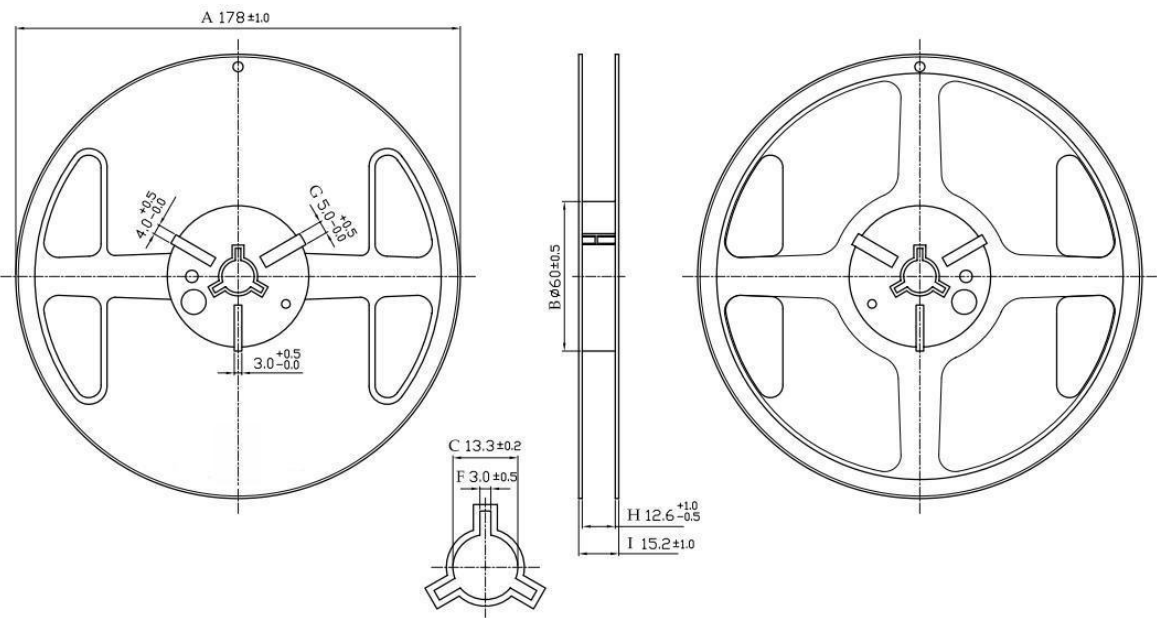


RECOMMENDED REFLOW PROFILE



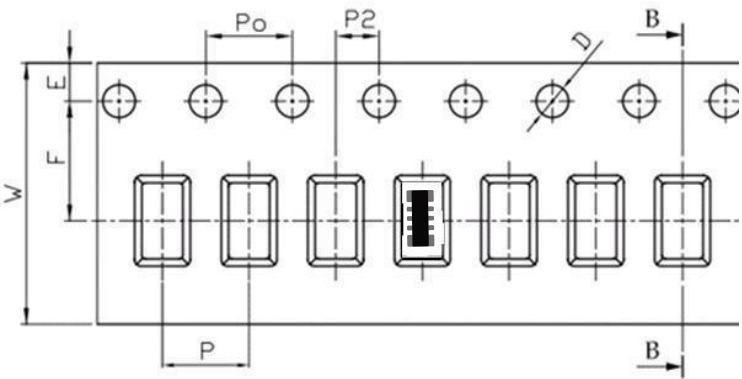
■PACKAGING STYLE

□REEL DIMENSIONS



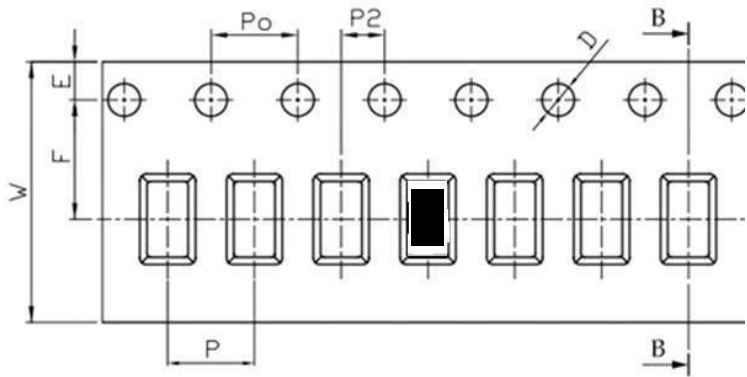
□TAPE DIMENSIONS

3216 Typing Quantity: 5000 pieces per 7" reel



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
P ₀	4.00	± 0.10
10P ₀	40.00	± 0.20

5025 Typing Quantity: 4000 pieces per 13" reel



Feature	Specifications	Tolerances
W	12.00	± 0.30
P	4.00	± 0.10
E	1.75	± 0.10
F	5.50	± 0.10
P2	2.00	± 0.10
D	1.50	$+0.10$ -0.00
P ₀	4.00	± 0.10
10P ₀	40.00	± 0.20