



SMD CERAMIC ANTENNA

Data Sheet

CA-2450-31

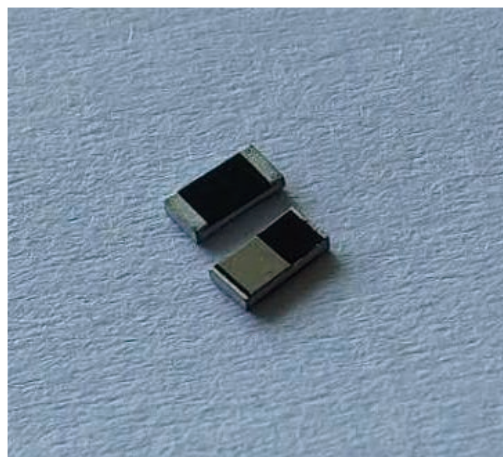
For 2400-2484MHz
3.2x1.6mm [EIA1206]

FEATURES

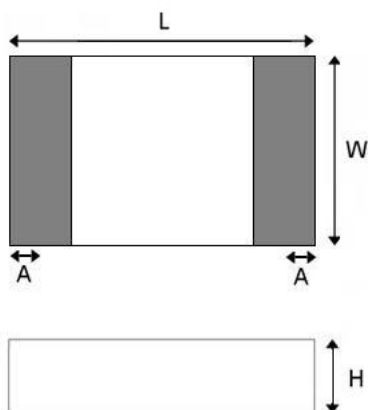
- Light weight,compact
- Wide bandwidth,lowcost
- Built-in antenna with high gain

APPLICATIONS

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



SHAPES AND DIMENSIONS Dimensions in mm



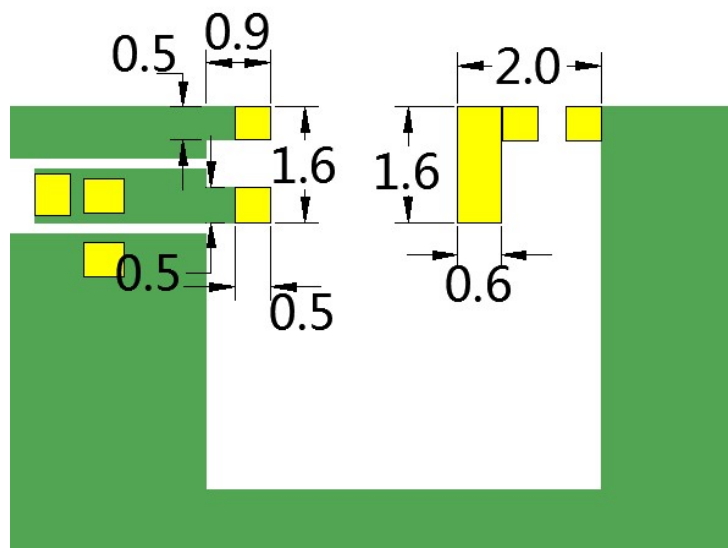
L	W	A	H
3.10±0.10	1.55±0.10	0.40±0.20	0.50±0.10

■ ELECTRIC SPECIFICATIONS

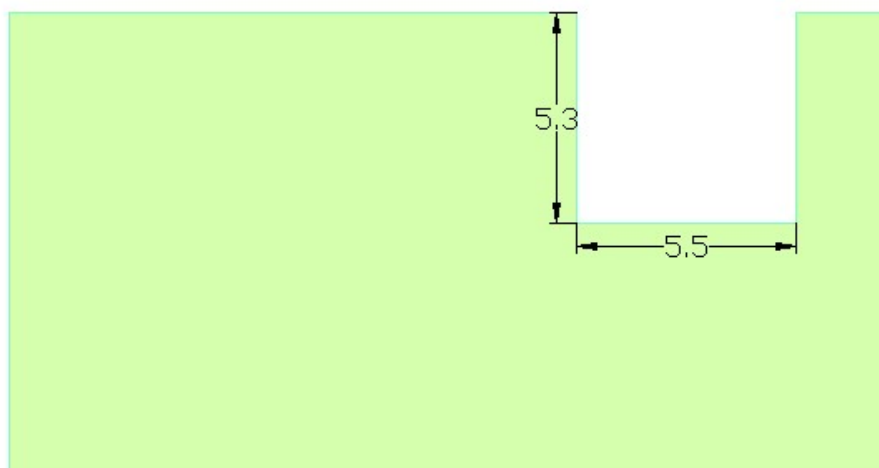
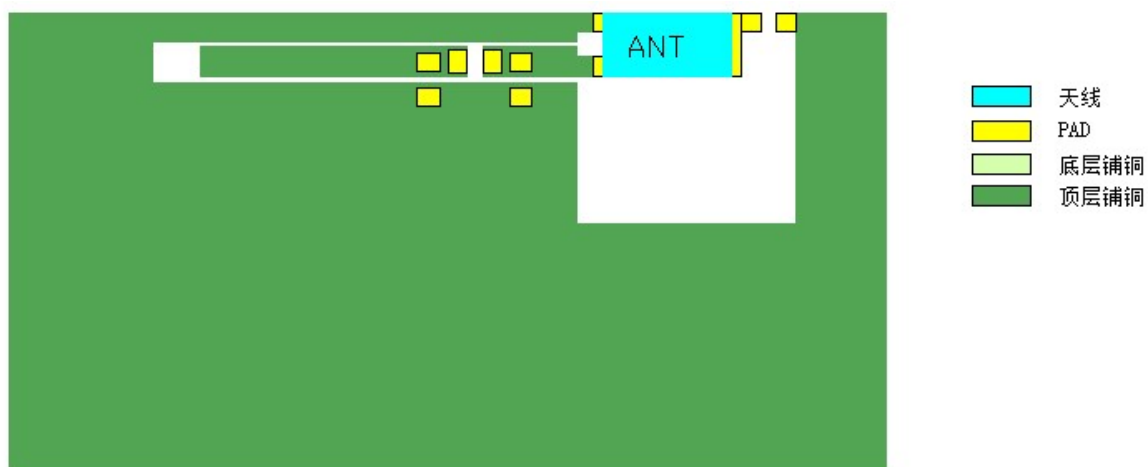
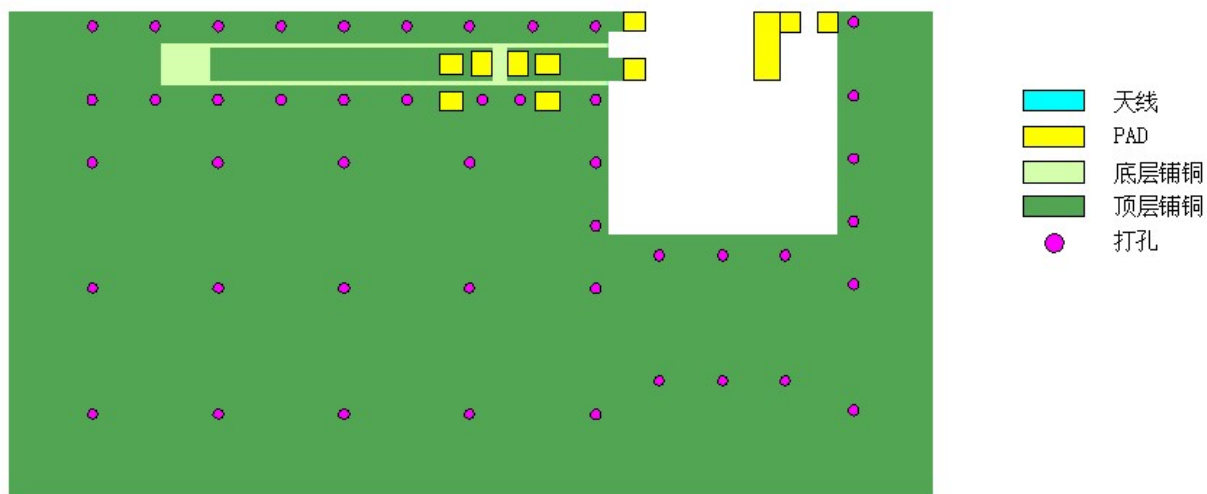
Product type	CA-2450-31
Center Frequency Range	2450MHZ
Input Impedance	50 Ω

■ PART NUMBERING SYSTEM

CA	-	2450	-	31	-	A
Material		Frequency		Size		Type



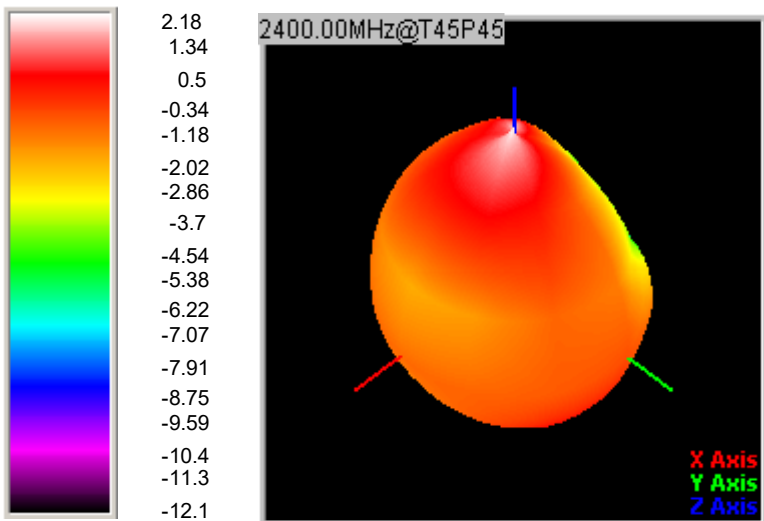
■ EVALUATION BOARD



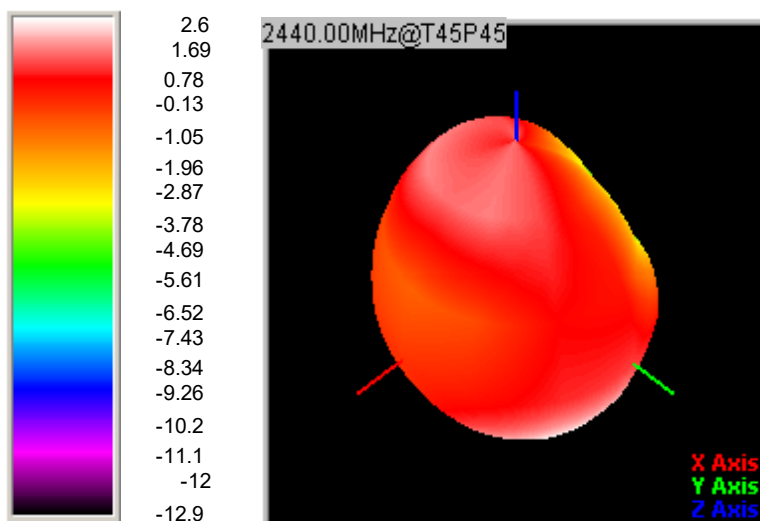
RADIATION PATTERNS

2.4GHz WLAN BAND Max Antenna Gain:2.6dBi

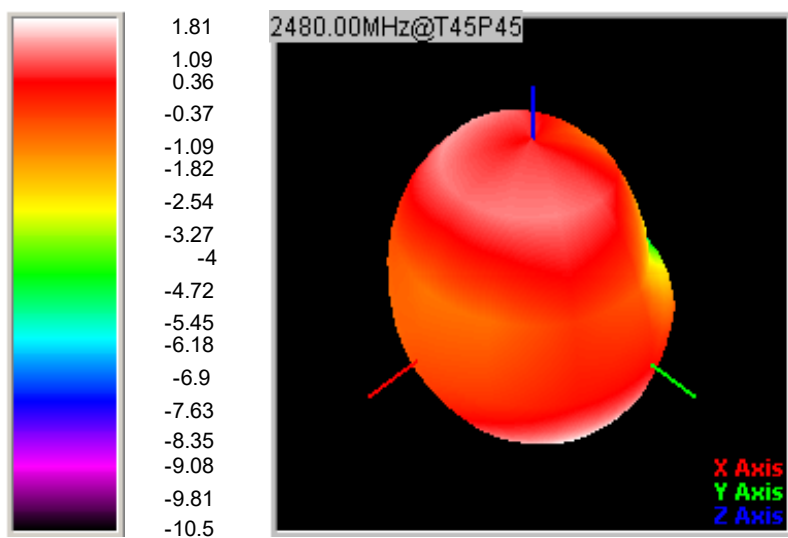
◎ 3D Gain Pattern (2400 MHz)



◎ 3D Gain Pattern (2440 MHz)

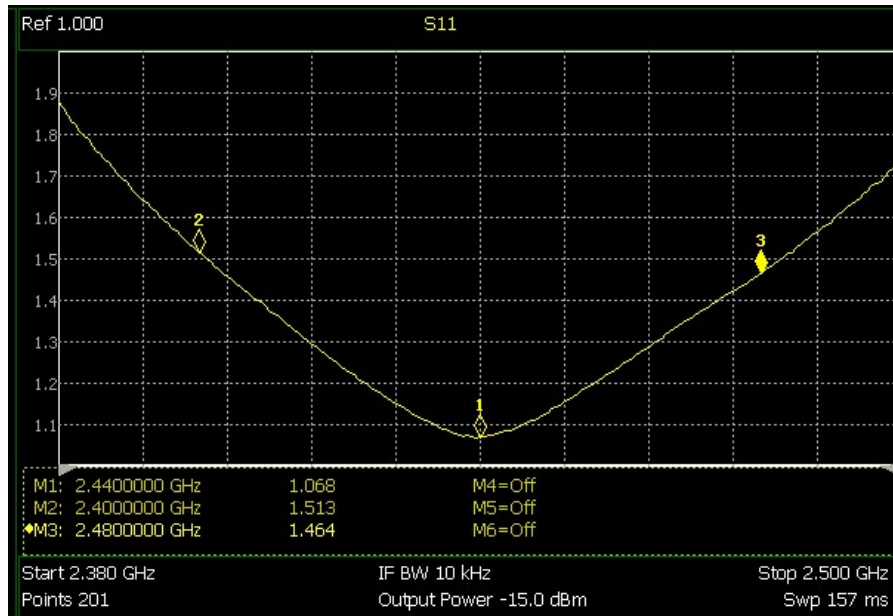
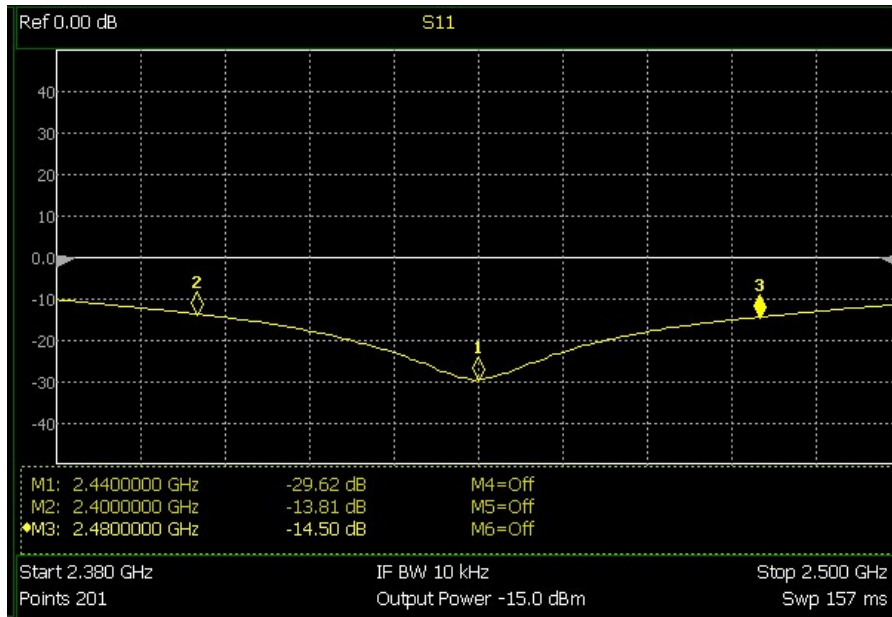


◎ 3D Gain Pattern (2480 MHz)

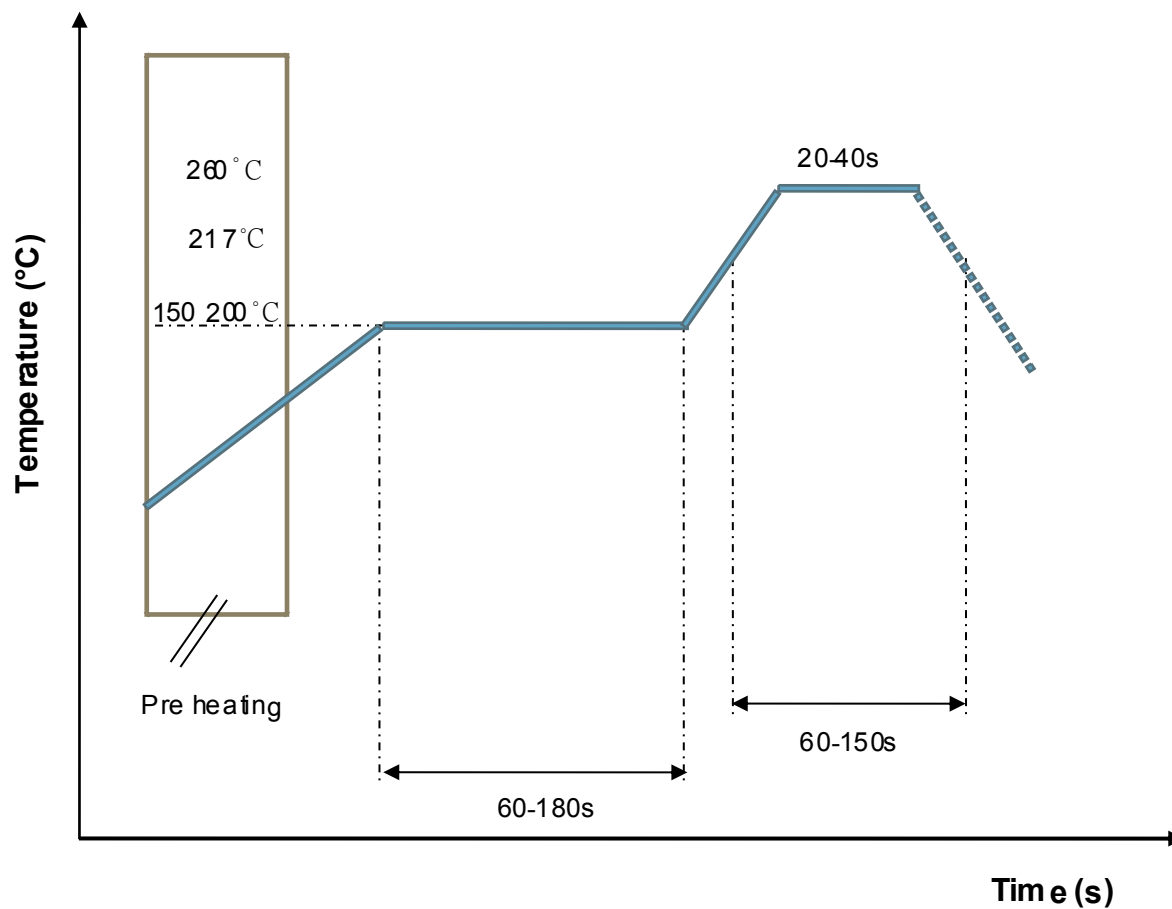


■ FREQUENCY CHARACTERISTICS

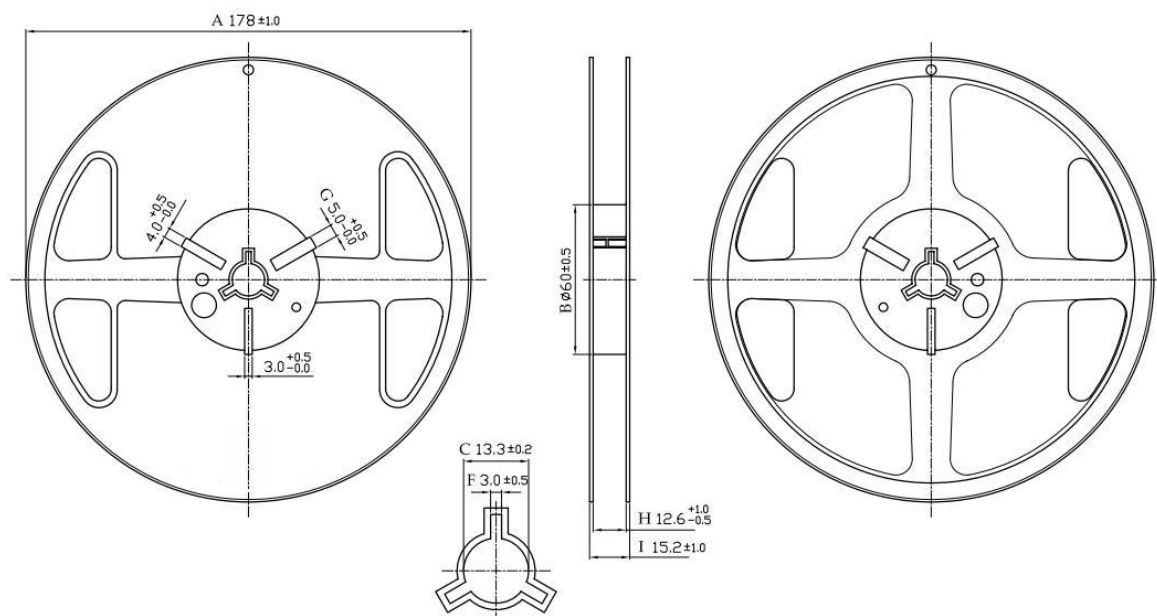
□ EFFICIENCY AND VSWR



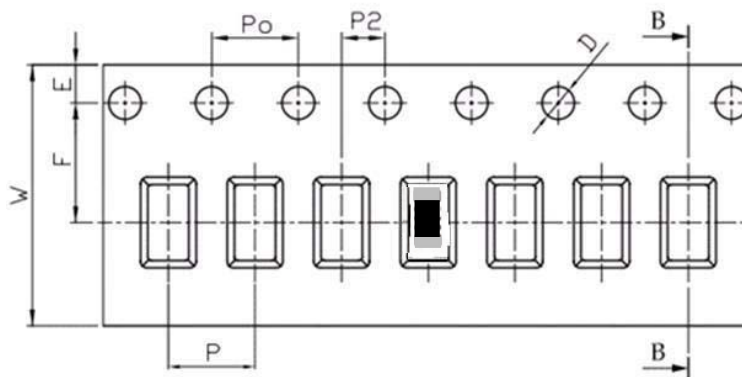
■ **RECOMMENDED REFLOW PROFILE**



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

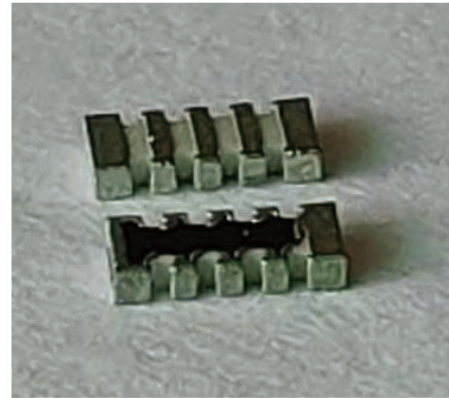
For 2400-2484MHz
5.0x2.5mm [EIA5025]

FEATURES

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

APPLICATIONS

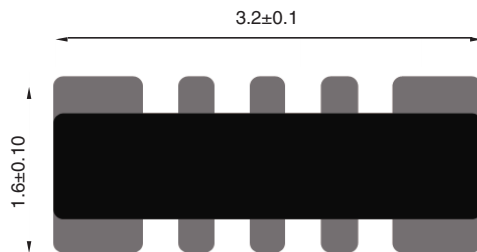
- Bluetooth
- IEEE802.11g/b
- Zigbee systems,etc...



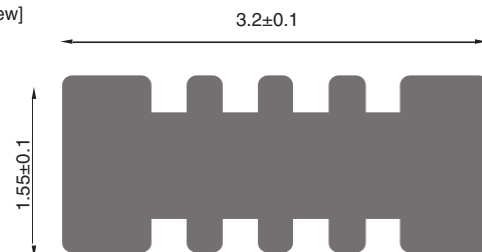
SHAPES AND DIMENSIONS Dimensions in mm

CA-2450-31-SE

[Top view]



[Bottom view]

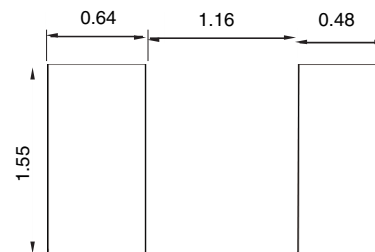


RECOMMENDED LAND PATTERN



Dimensions in mm

OLDER RESIST PATTERN



Dimensions in mm

CA-2450-52-SE

[Top view]



[Bottom view]

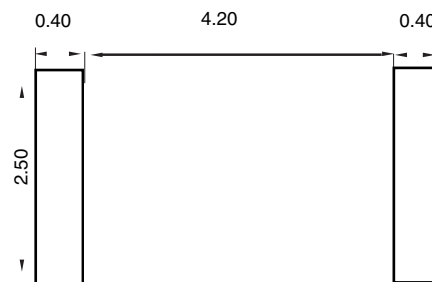


RECOMMENDED LAND PATTERN



Dimensions in mm

OLDER RESIST PATTERN



Dimensions in mm

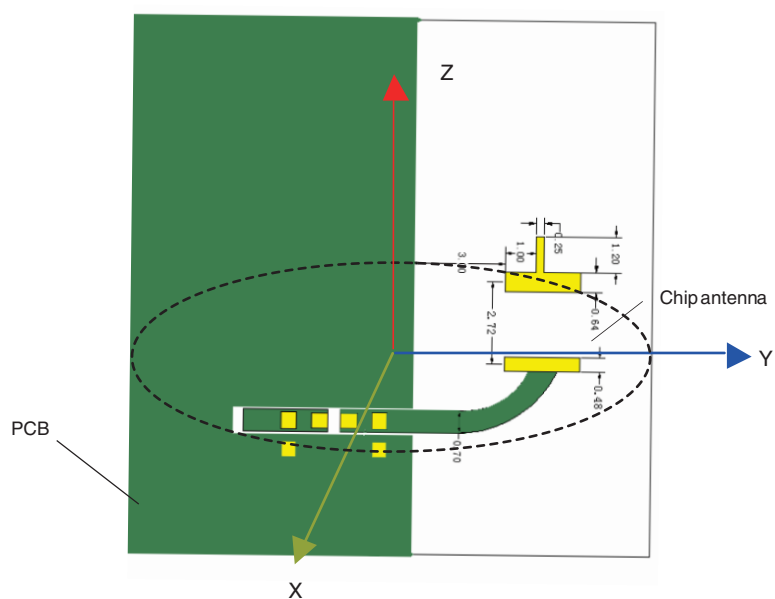
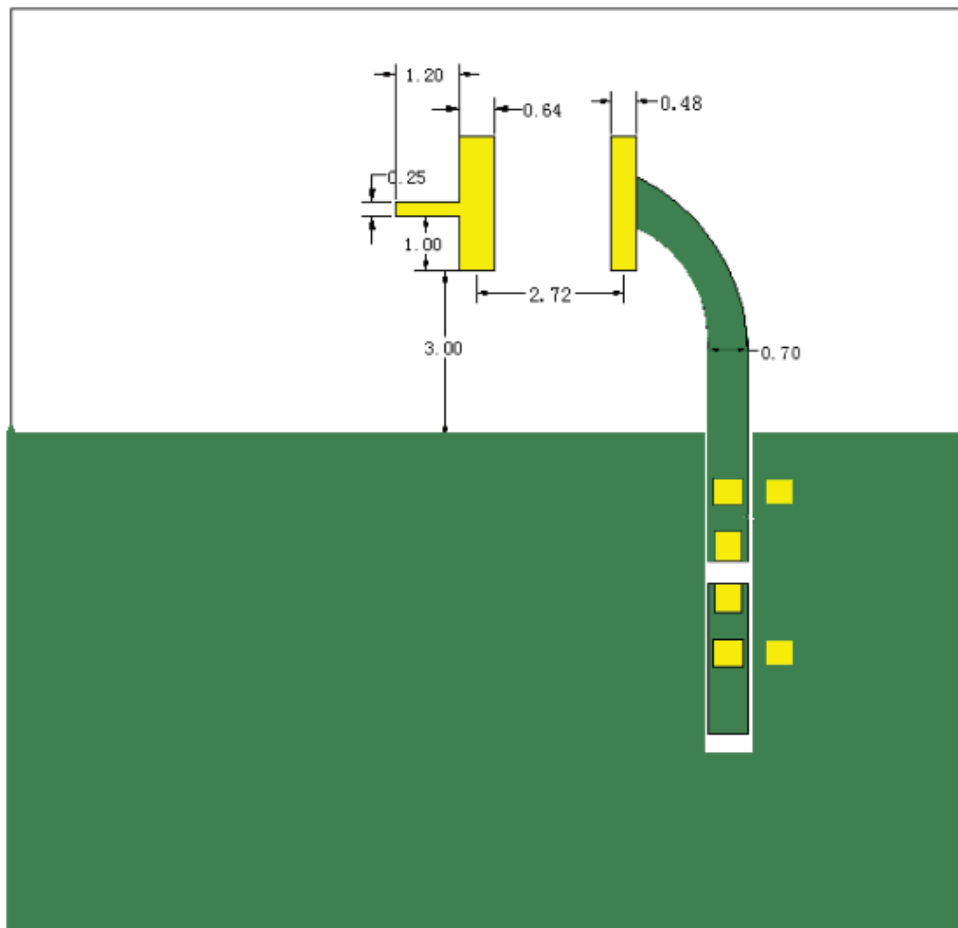
ELECTRICAL SPECIFICATIONS

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

PART NUMBERING SYSTEM

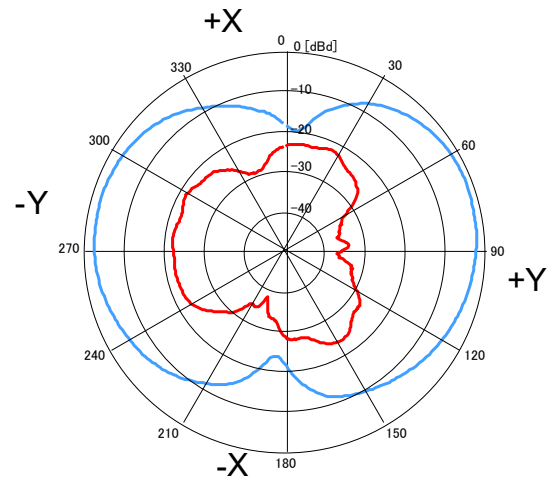
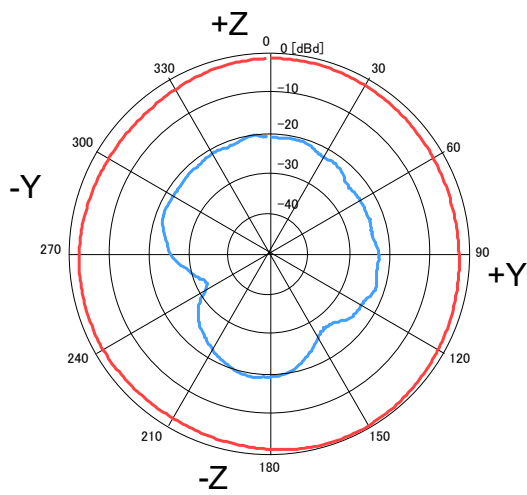
CA	-	2450	-	31 /52	-	SE
Material		Frequency		Size		Series

■ **EVALUATION BOARD**



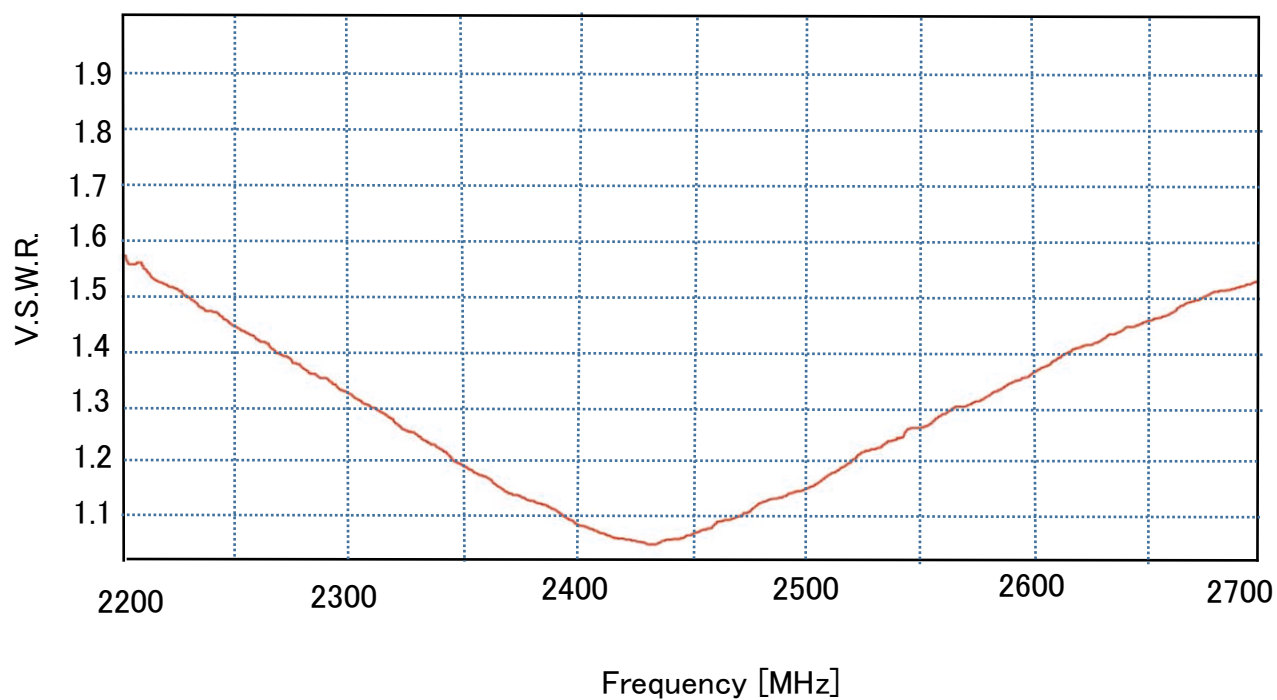
■ RADIATION PATTERNS

■ 2.4GHz WLAN BAND

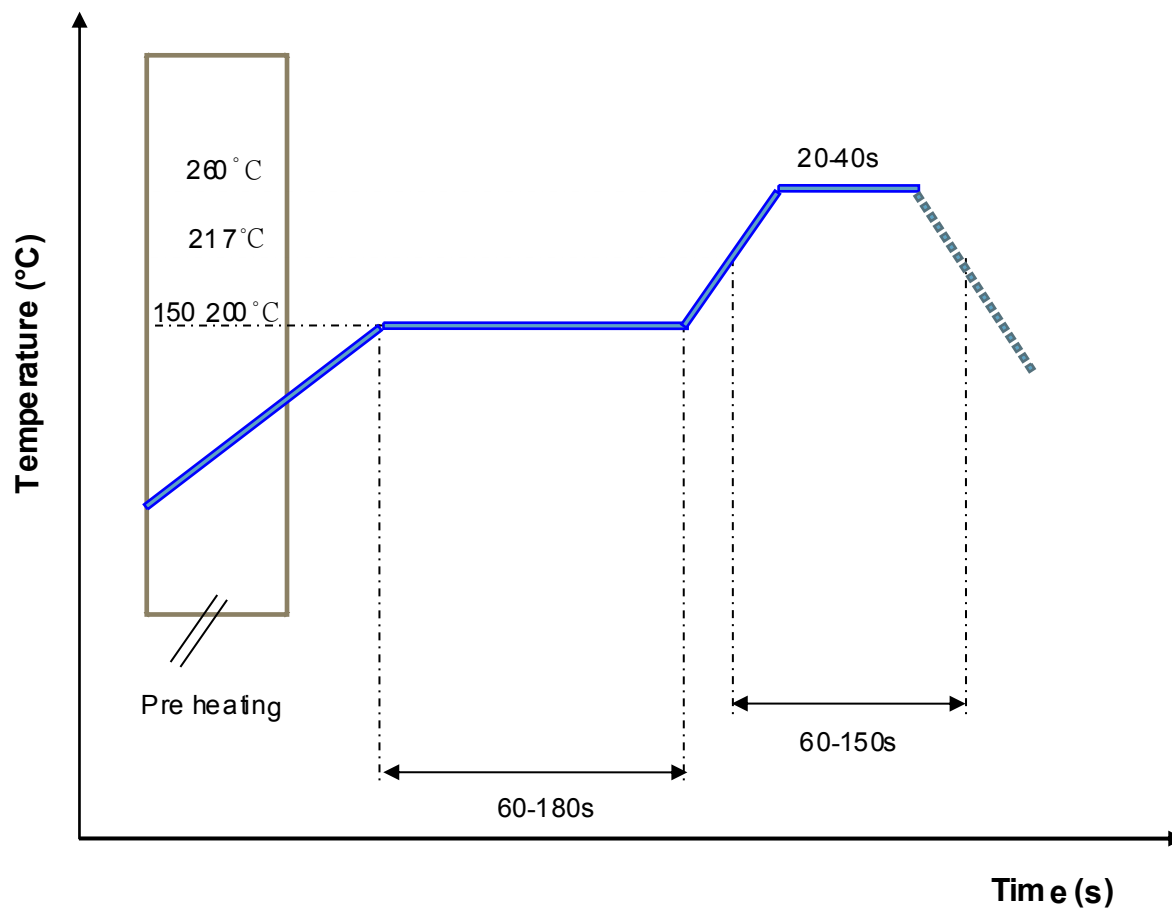


■ FREQUENCY CHARACTERISTICS

□ EFFICIENCY AND VSWR

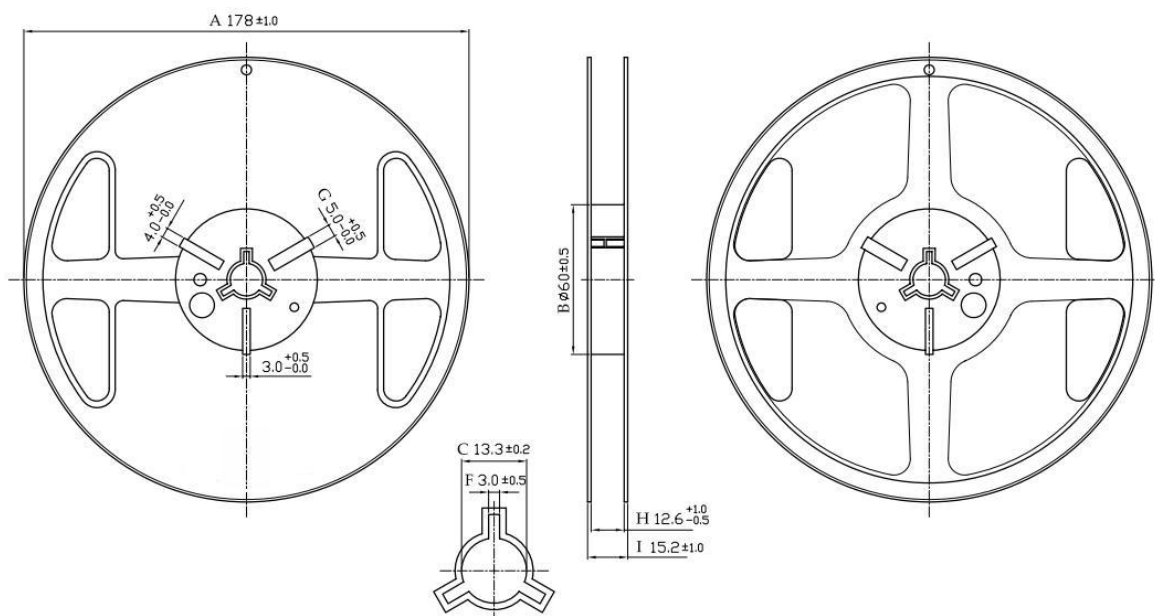


■ **RECOMMENDED REFLOW PROFILE**



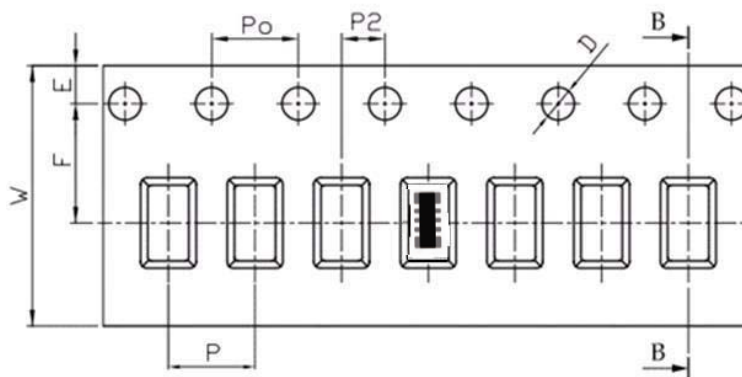
■ PACKAGING STYLE

□ REEL DIMENSIONS



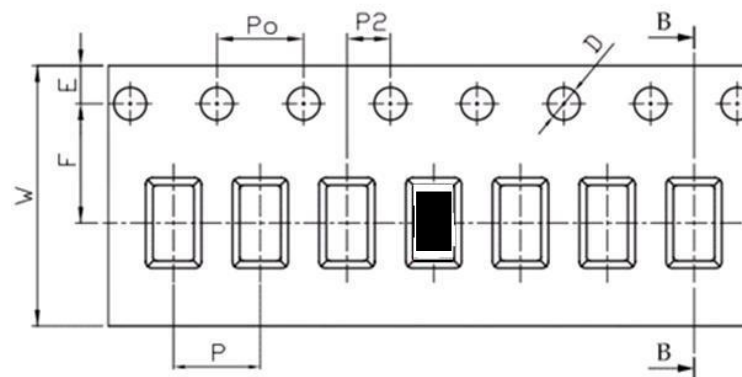
□ TAPE DIMENSIONS

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
P0	4.00	±0.10
10P0	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
P0	4.00	±0.10
10P0	40.00	±0.20