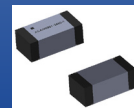


# 2.45 GHz Ceramic Chip Antenna



ACAG0301-2450-T



3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

## Features

- Low VSWR
- High gain of 5.19 dBi
- Bandwidth of 100MHz
- Omnidirectional pattern
- Linear polarization

## Applications

- WiFi
- Bluetooth
- ISM
- Wearables
- IoT
- AR/VR
- Drones

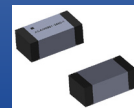
## Electrical Specifications

Parameters	Min.	Typ.	Max.	Units
Center Frequency (No matching)		2875		MHz
Center Frequency (After matching)		2450		MHz
Bandwidth		100		MHz
VSWR		≤ 2.0		
Impedance		50		Ω
Gain		5.19		dBi
Azimuthal Beam width	Omni-directional			
Polarization	Linear			

## Environmental Characteristics

Parameters	Description
Operating Temperature	-40°C to +105°C
Relative Humidity	55 ~ 75 %

## 2.45 GHz Ceramic Chip Antenna

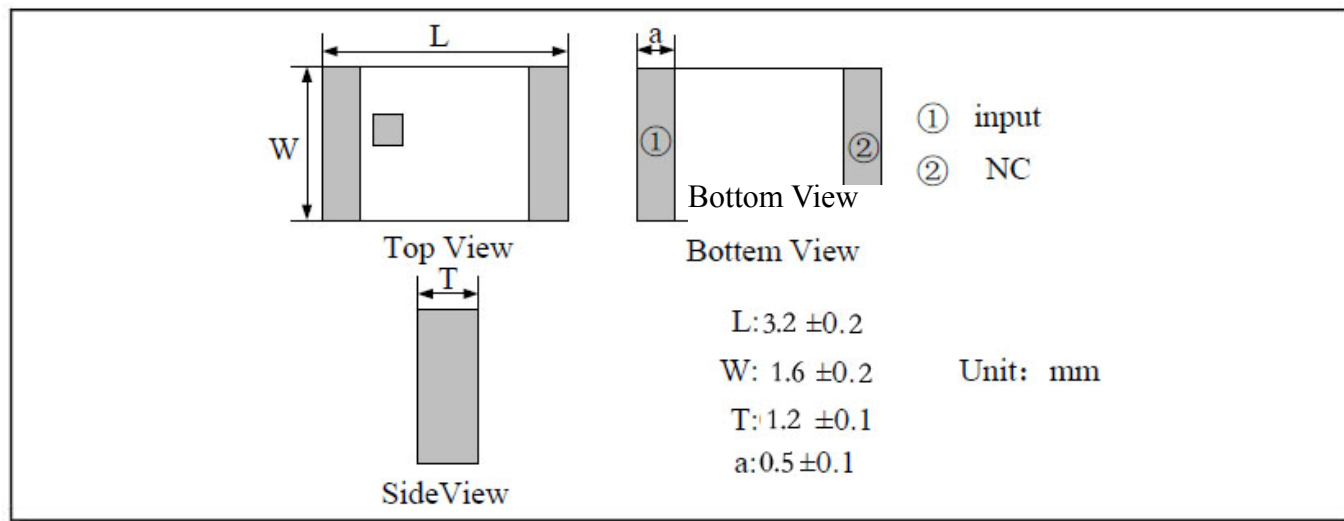


ACAG0301-2450-T

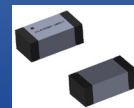


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

### Product Dimensions (Unit: mm)



## 2.45 GHz Ceramic Chip Antenna

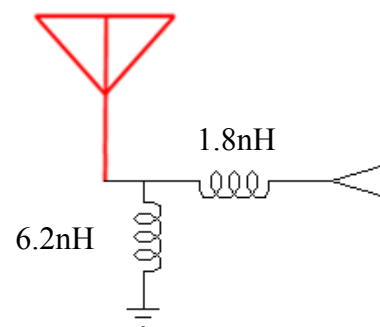
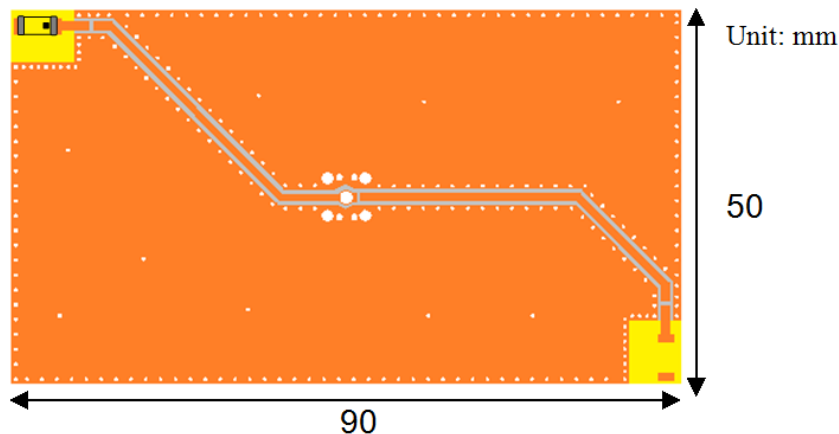
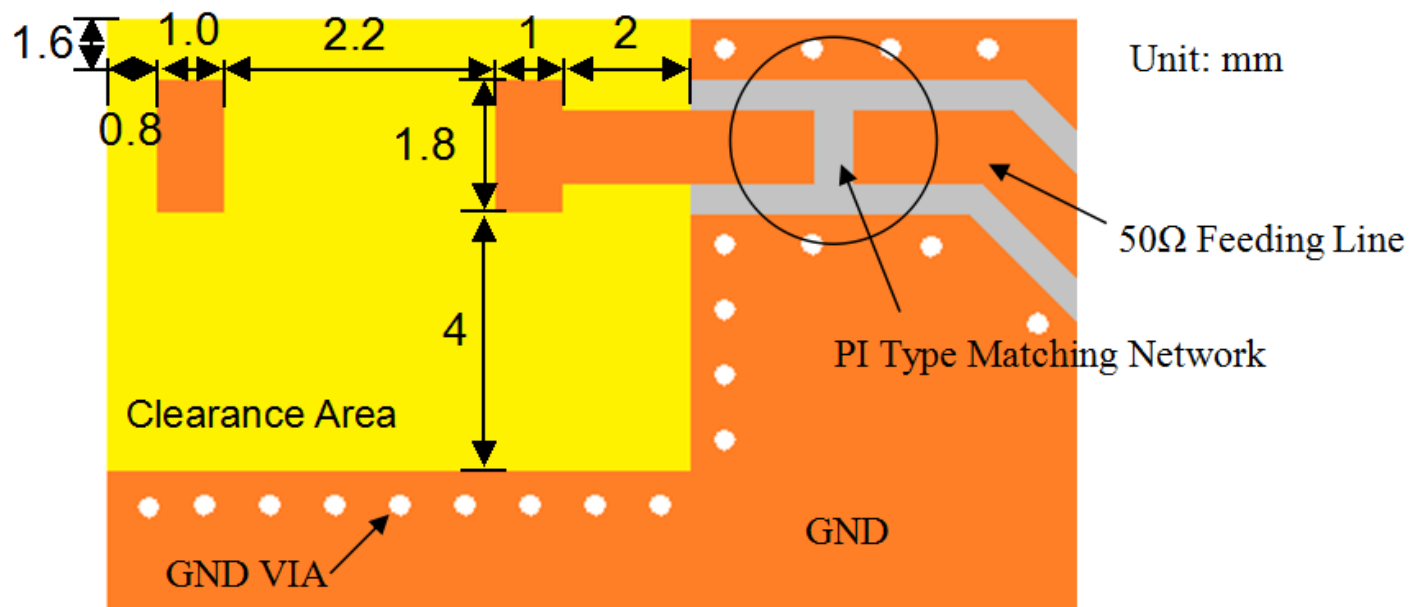


ACAG0301-2450-T

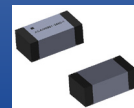


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

### Evaluation Board and Matching Circuits



# 2.45 GHz Ceramic Chip Antenna

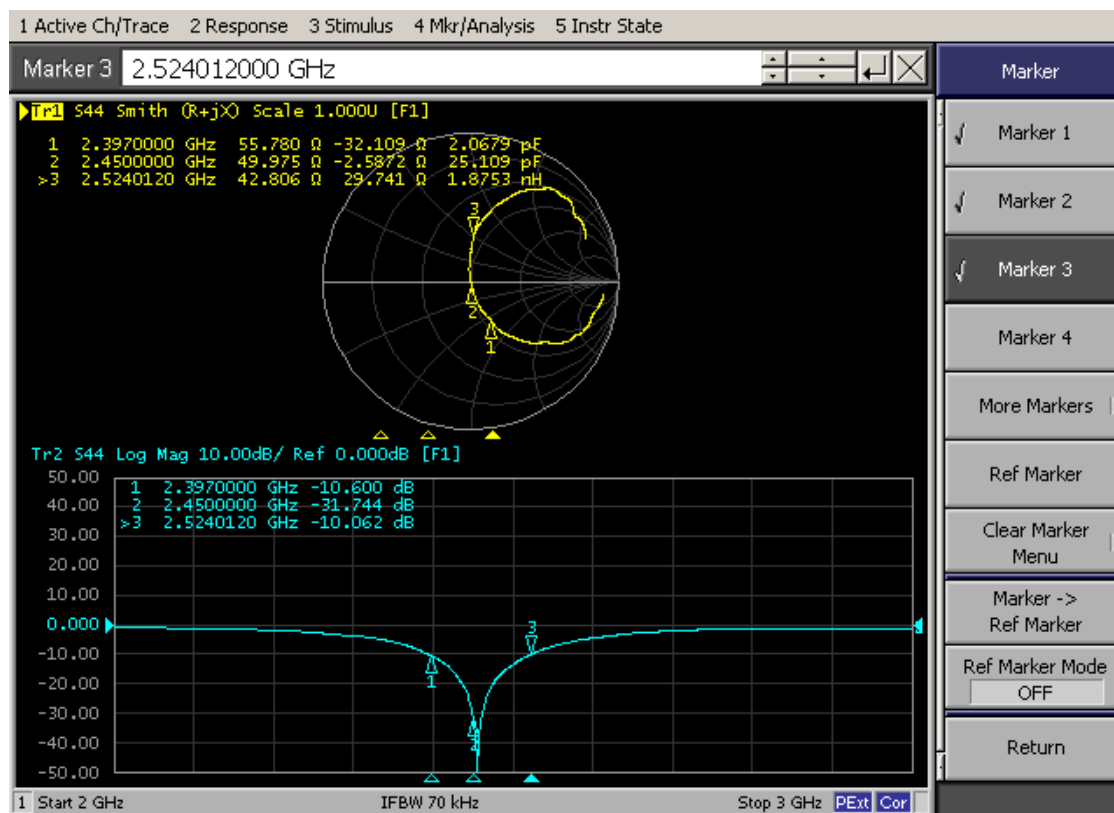


ACAG0301-2450-T

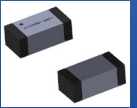


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

## Return Loss and Impedance Characteristics



# 2.45 GHz Ceramic Chip Antenna

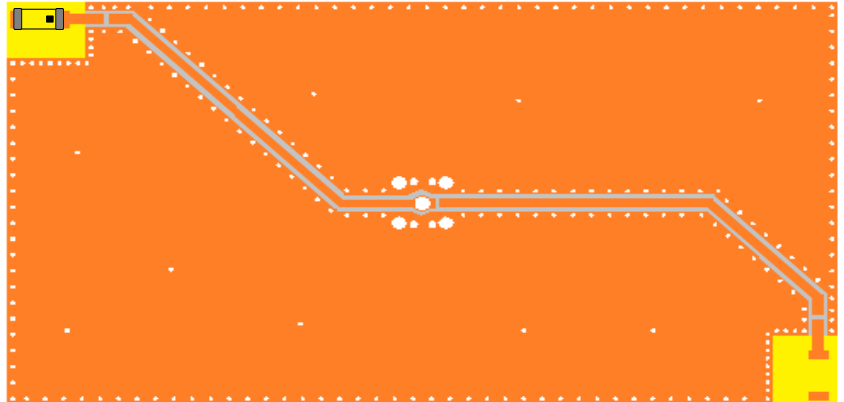
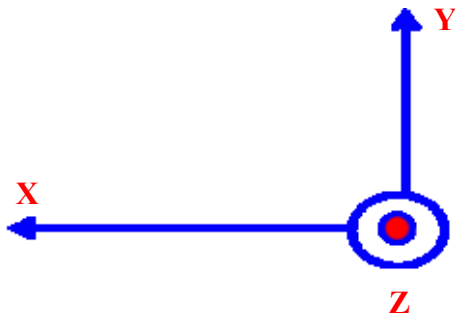


ACAG0301-2450-T

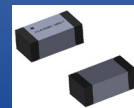


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

## Radiation Pattern



# 2.45 GHz Ceramic Chip Antenna



ACAG0301-2450-T

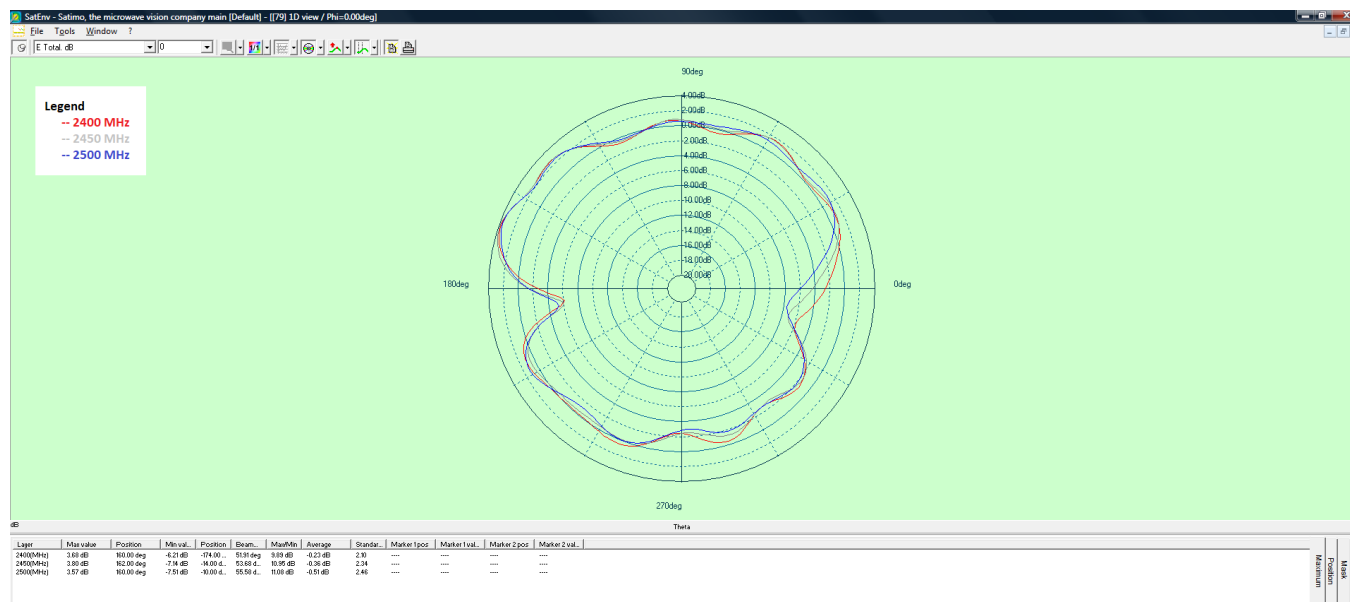


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

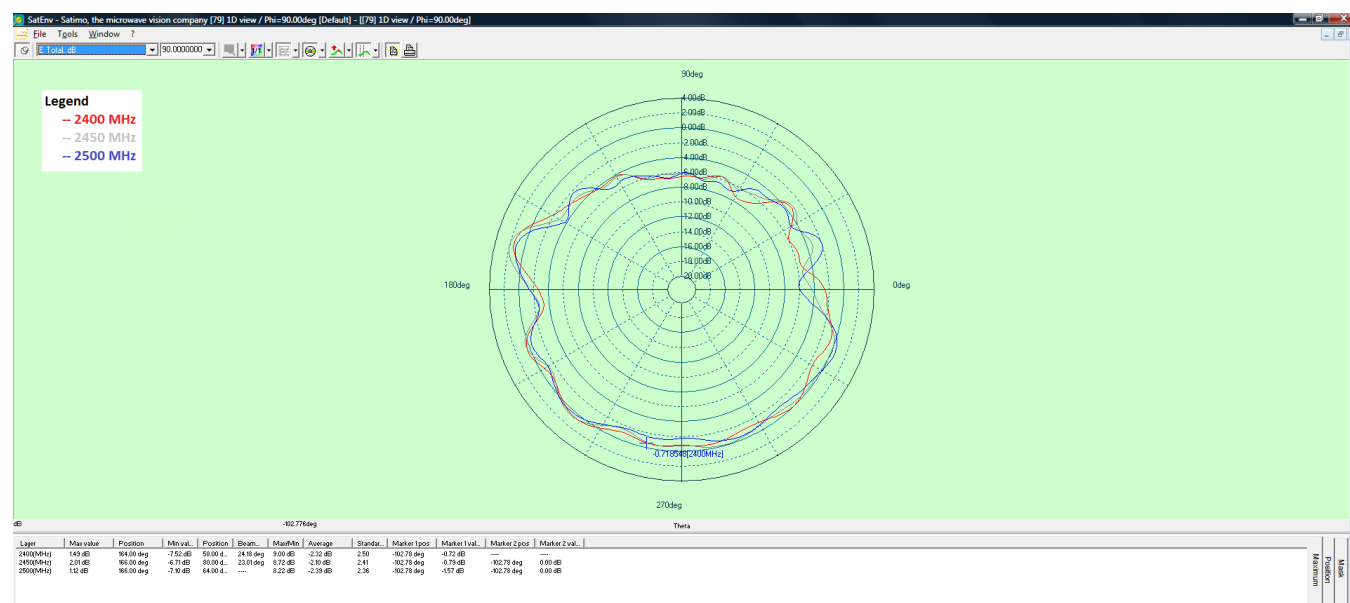
## Radiation Pattern

### 2D – Pattern

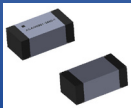
#### XZ- Plane



#### YZ- Plane



# 2.45 GHz Ceramic Chip Antenna



ACAG0301-2450-T

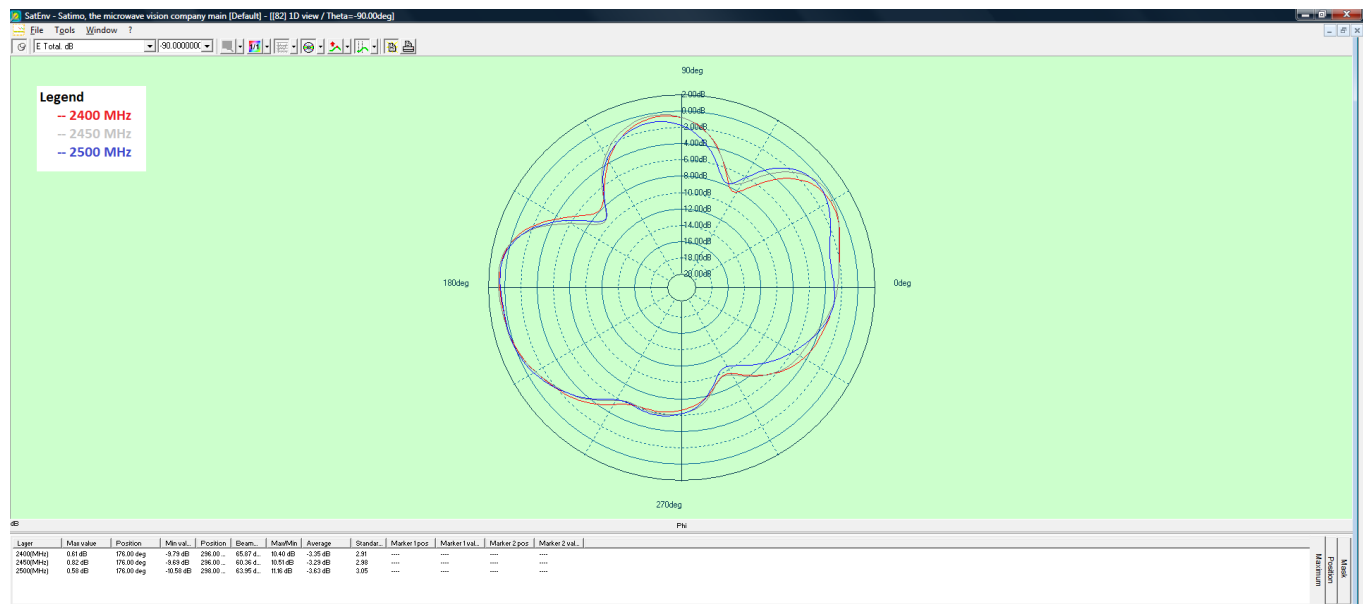


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

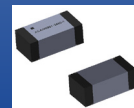
## Radiation Pattern

### 2D – Pattern

#### XY- Plane



# 2.45 GHz Ceramic Chip Antenna



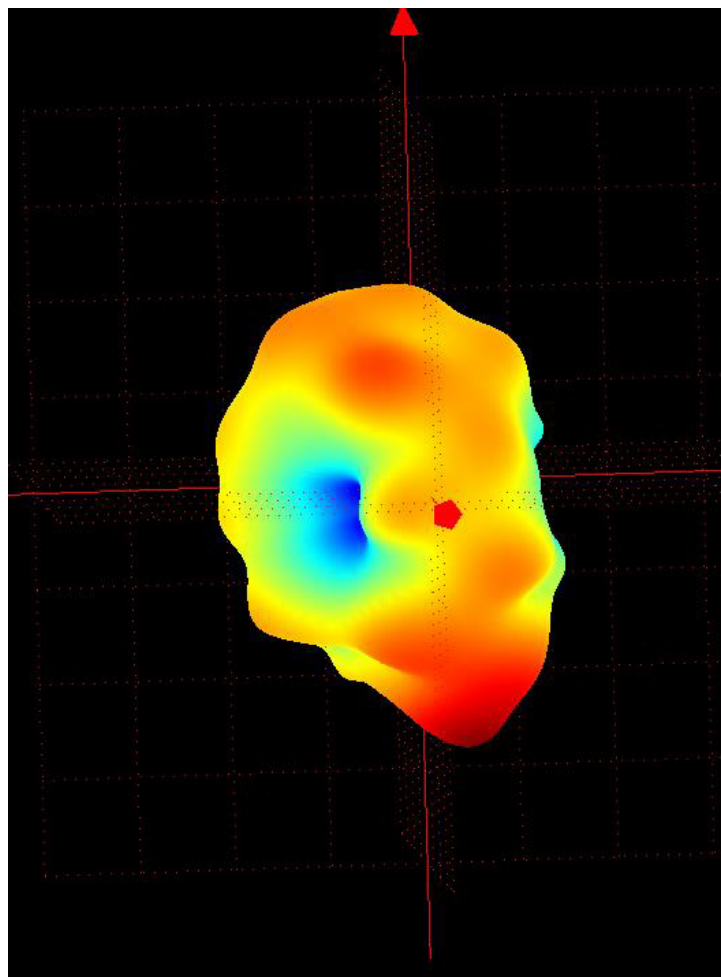
ACAG0301-2450-T



3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

## Radiation Patterns

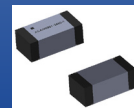
### 3D – Pattern



Frequency (MHz)	Average Gain (dBi)	Peak Gain (dBi)	Efficiency (%)
2400	-0.23	4.98	70
2450	-0.36	5.19	71.2
2500	-0.51	4.55	69



## 2.45 GHz Ceramic Chip Antenna

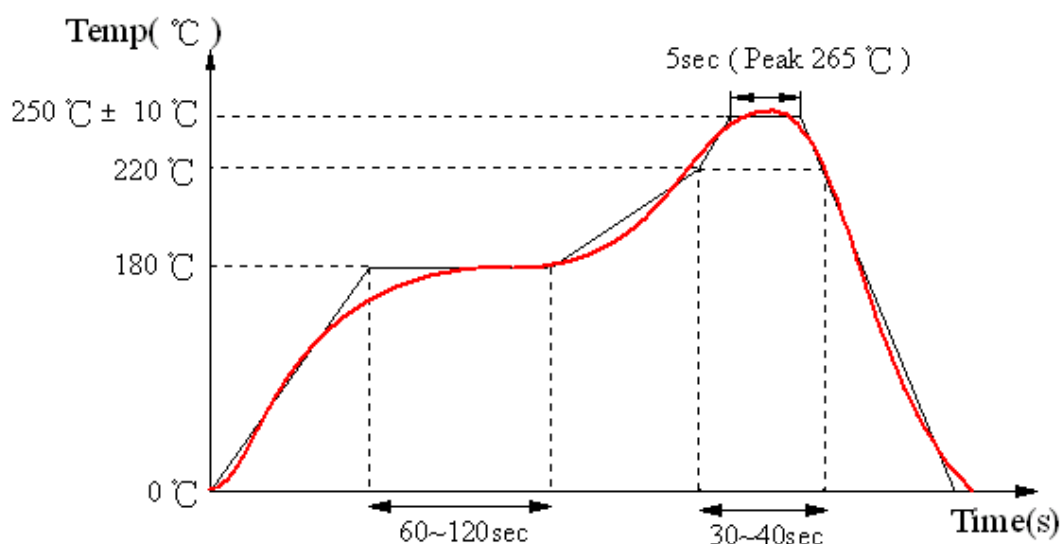


ACAG0301-2450-T

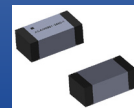


3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

### Reflow Soldering Standard Condition



## 2.45 GHz Ceramic Chip Antenna



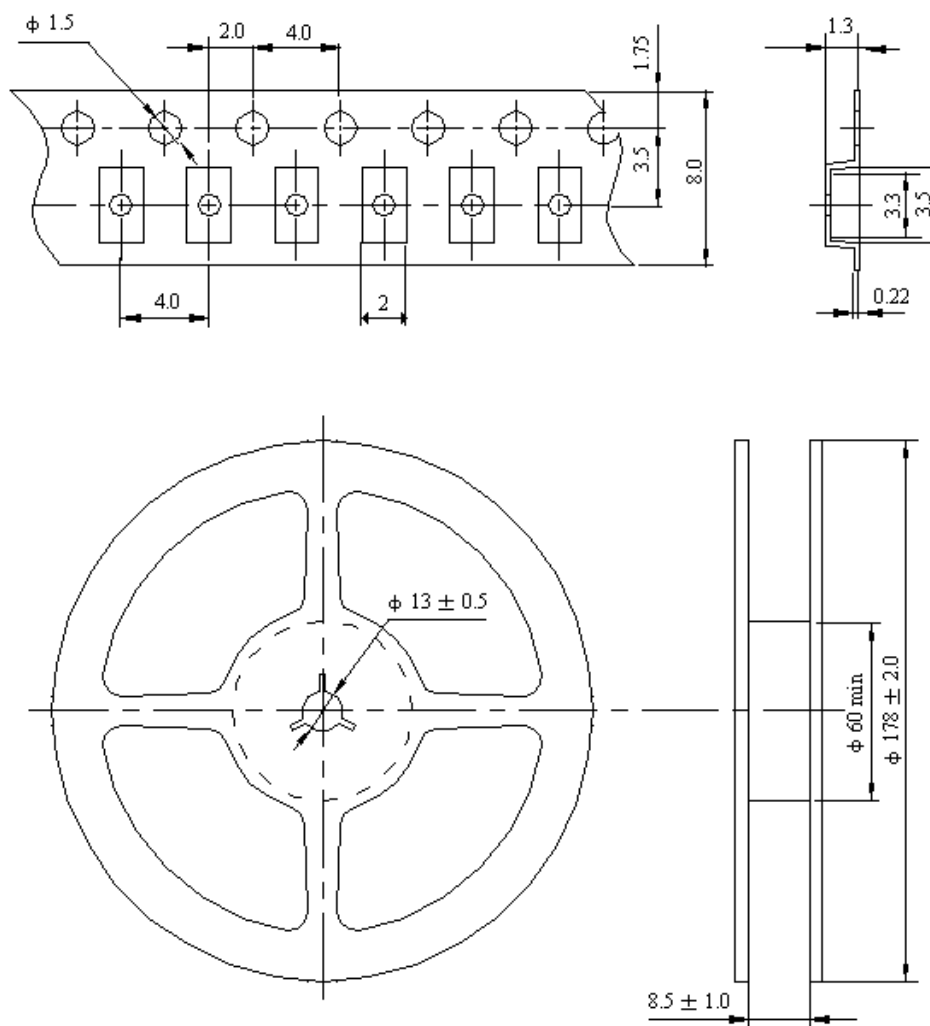
ACAG0301-2450-T



3.2 x 1.6 x 1.2 mm  
RoHS/RoHS II Compliant  
MSL = N/A

### Packaging

There are 3000 pcs/Reel.



Unit : mm

**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
[www.abracon.com](http://www.abracon.com)

REVISED: 12.26.2019

ABRACON IS  
ISO9001-2015  
CERTIFIED

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[ACAG0301-2450-T](#)