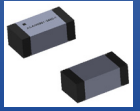


2.45 GHz Ceramic Chip Antenna



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

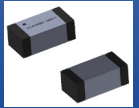
Electrical Specifications

| 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

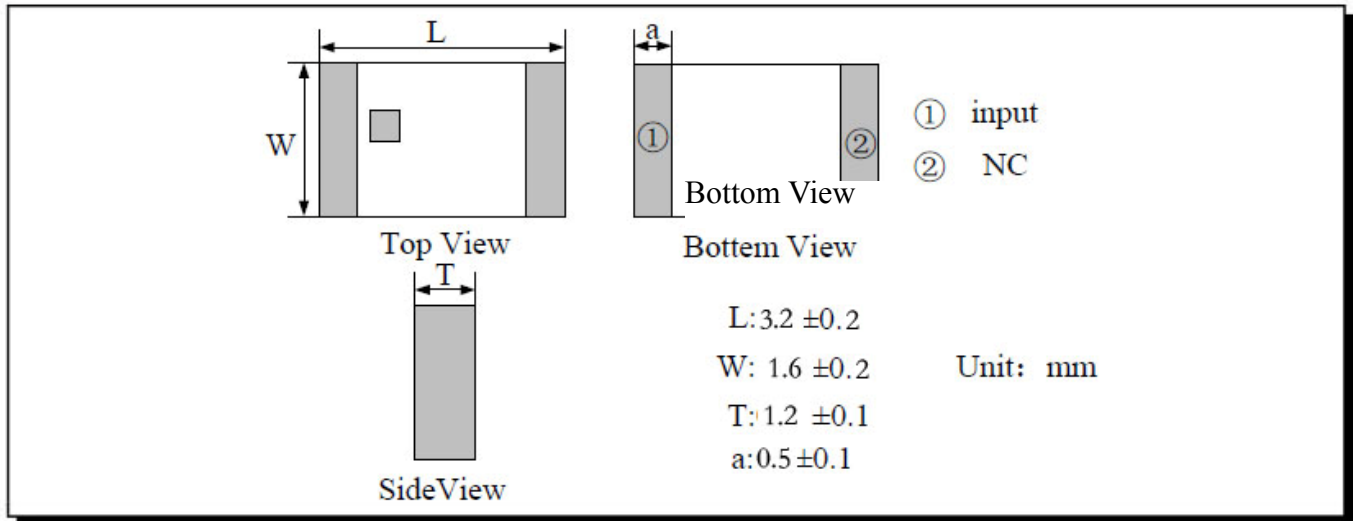


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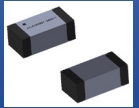


3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Product Dimensions (Unit: mm)



2.45 GHz Ceramic Chip Antenna

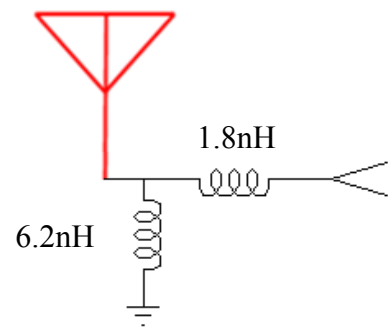
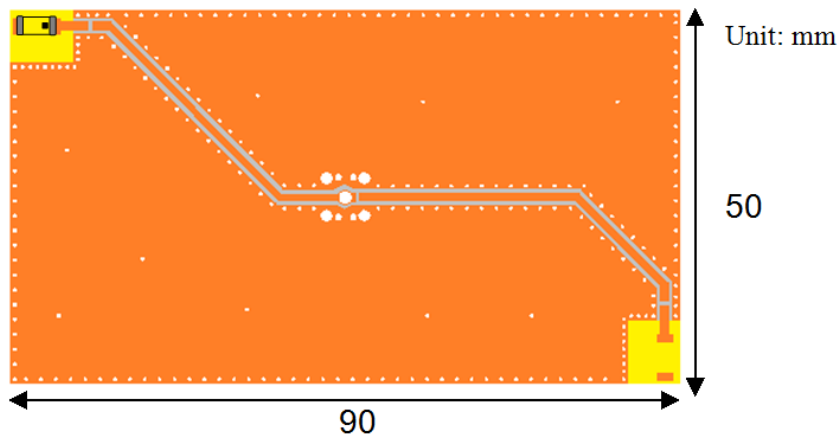
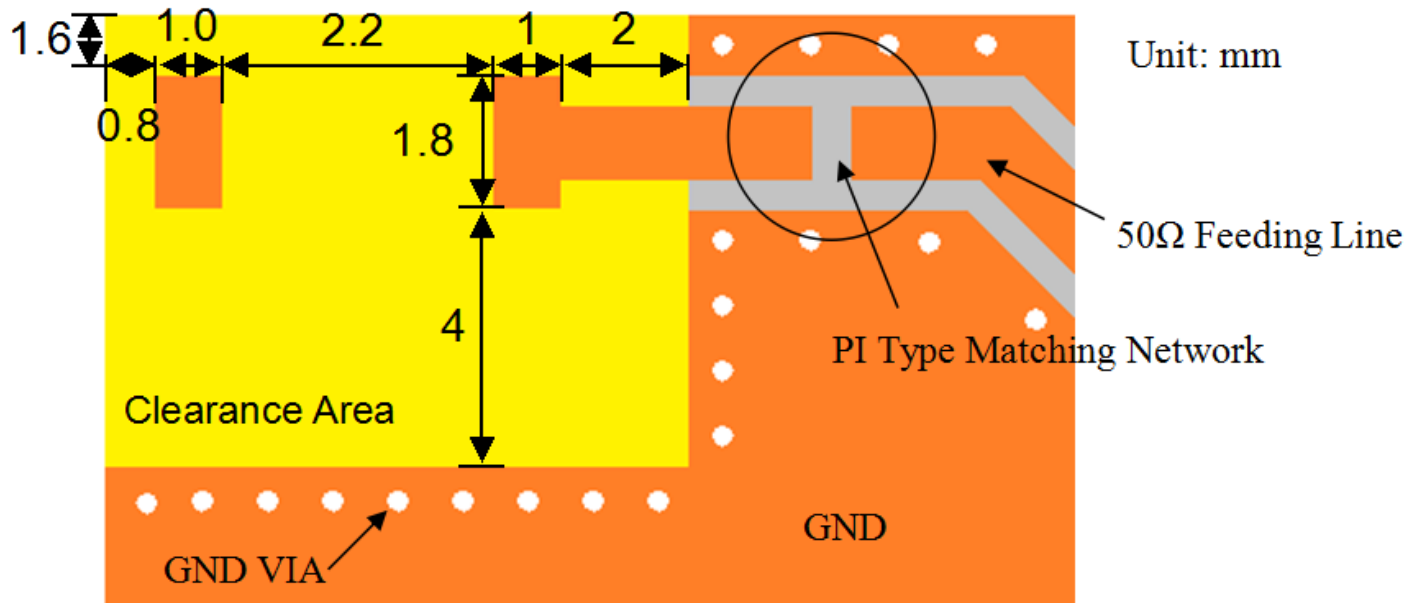


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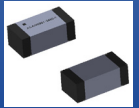


3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Evaluation Board and Matching Circuits



2.45 GHz Ceramic Chip Antenna

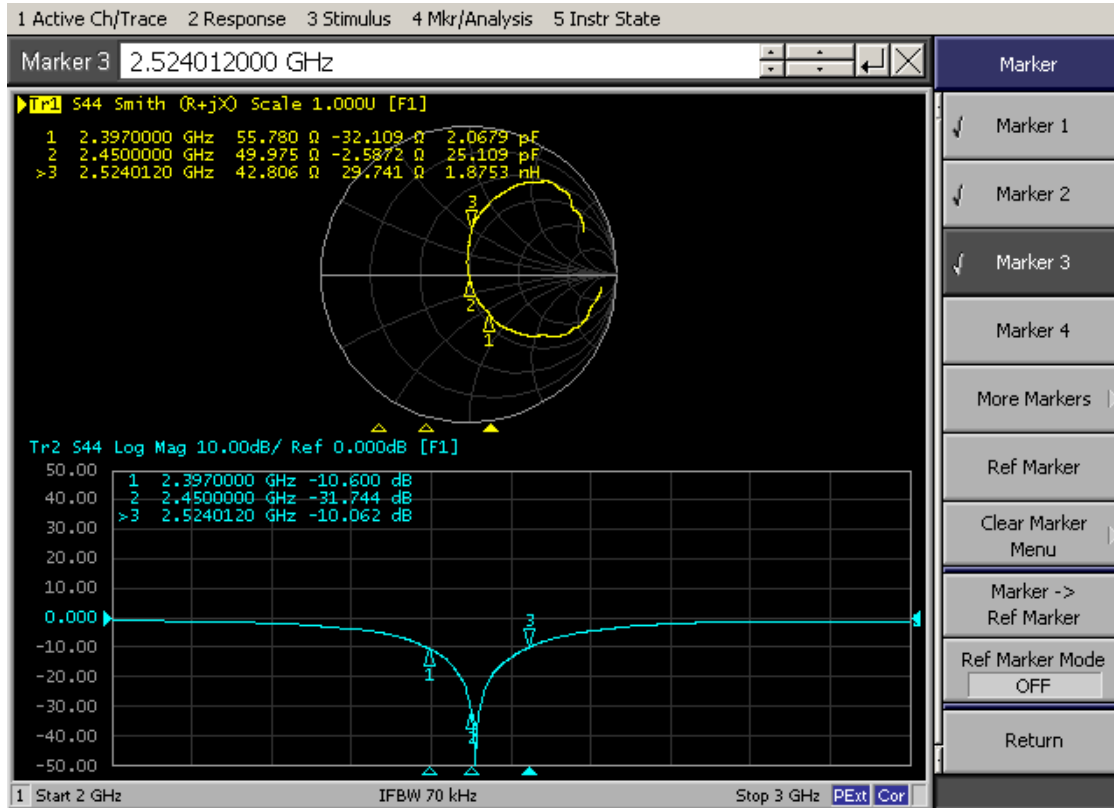


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3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Return Loss and Impedance Characteristics



2.45 GHz Ceramic Chip Antenna

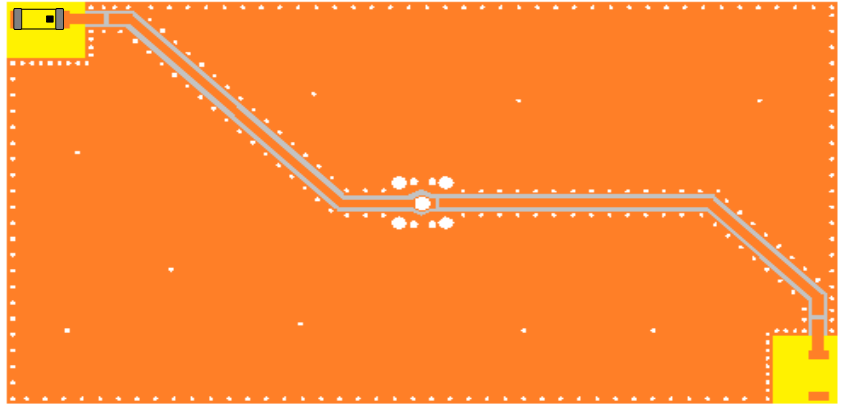
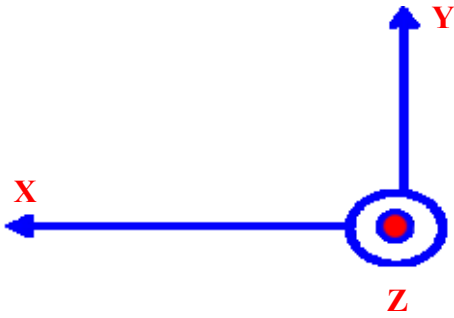


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3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Radiation Pattern



2.45 GHz Ceramic Chip Antenna



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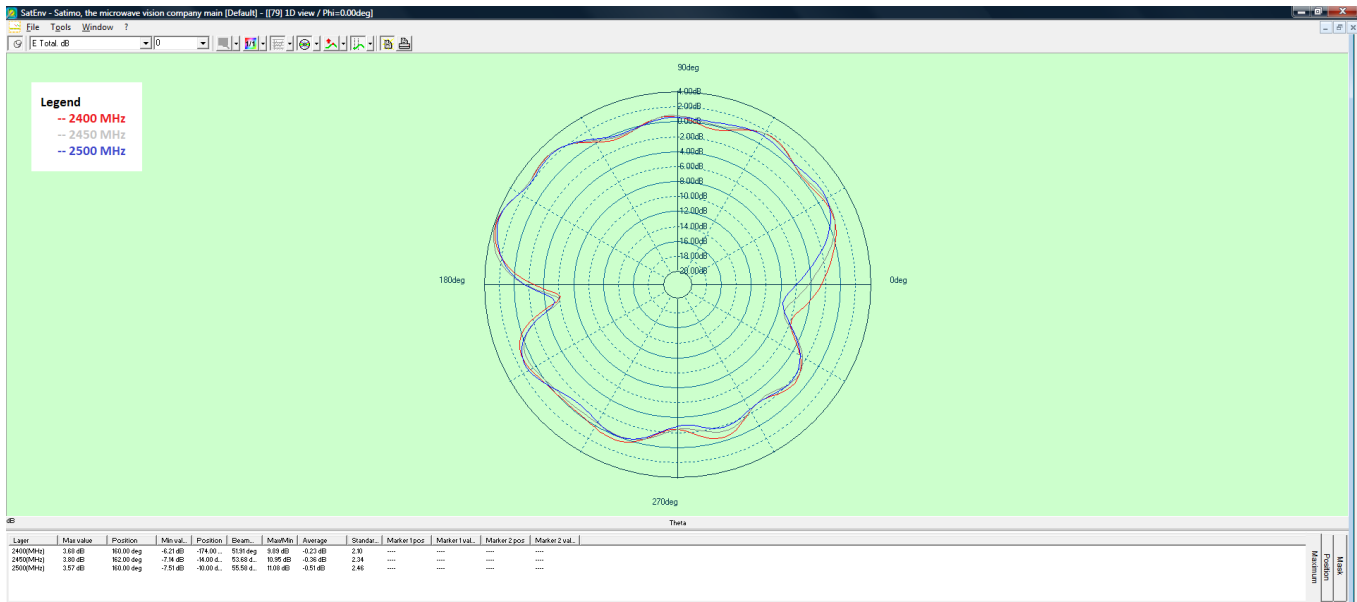


3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

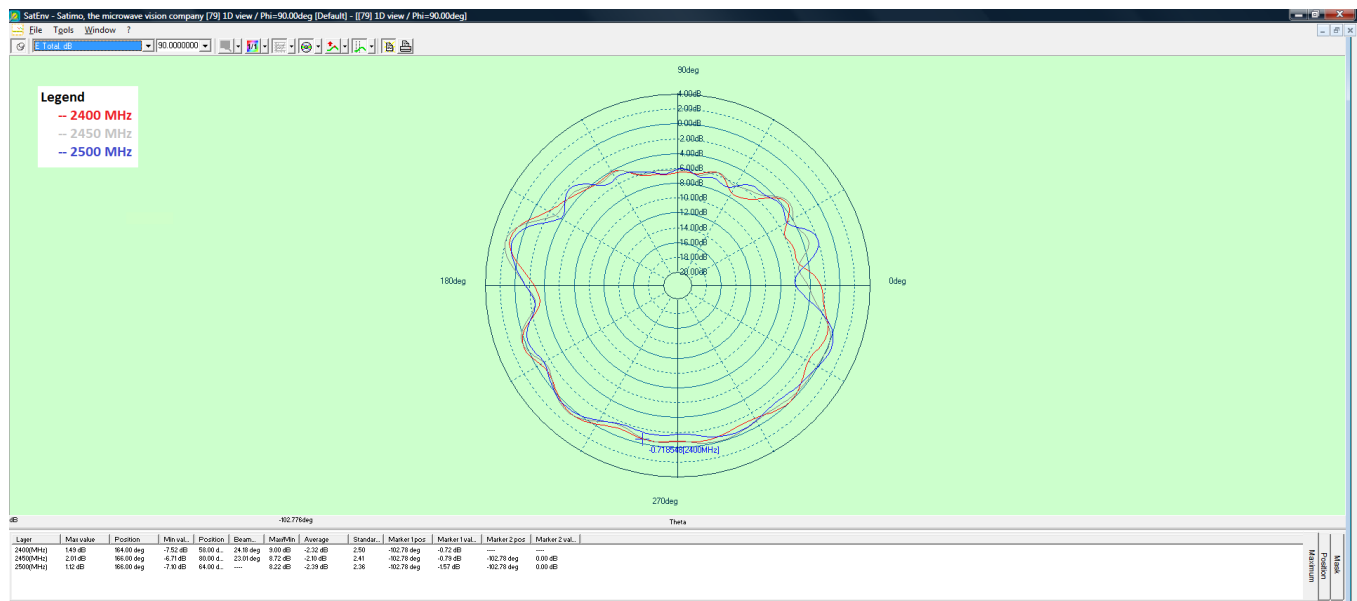
Radiation Pattern

2D – Pattern

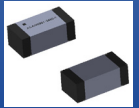
XZ- Plane



YZ- Plane



2.45 GHz Ceramic Chip Antenna



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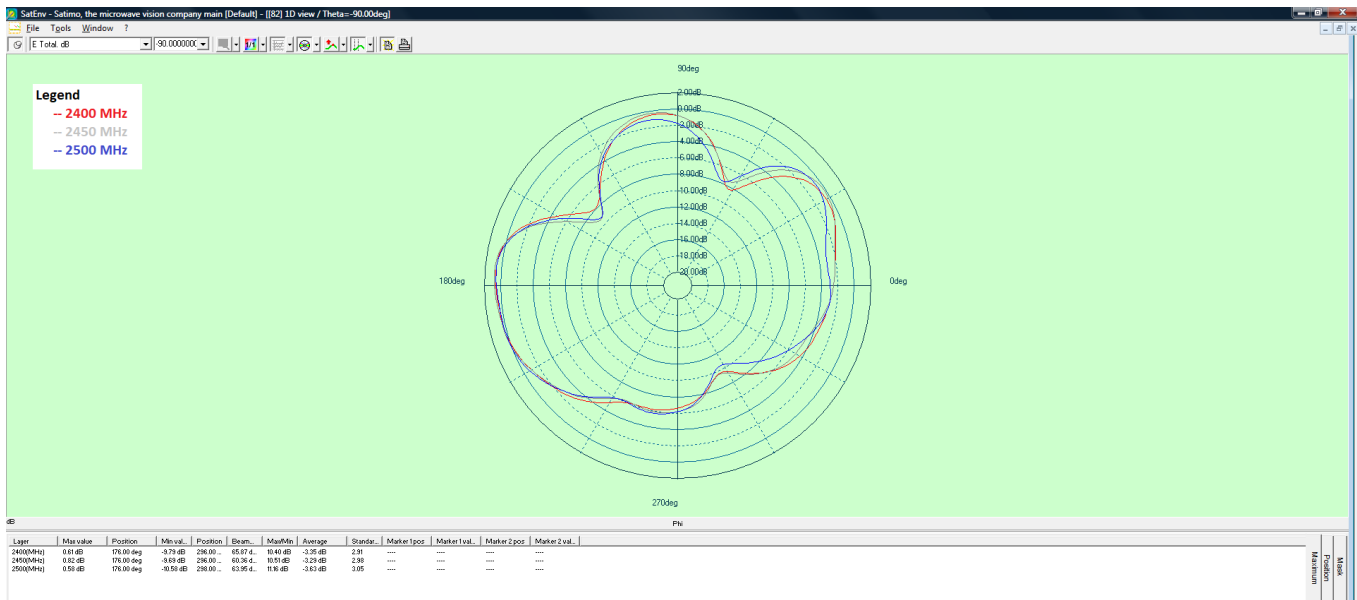


3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

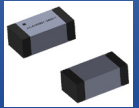
Radiation Pattern

2D – Pattern

XY- Plane



2.45 GHz Ceramic Chip Antenna



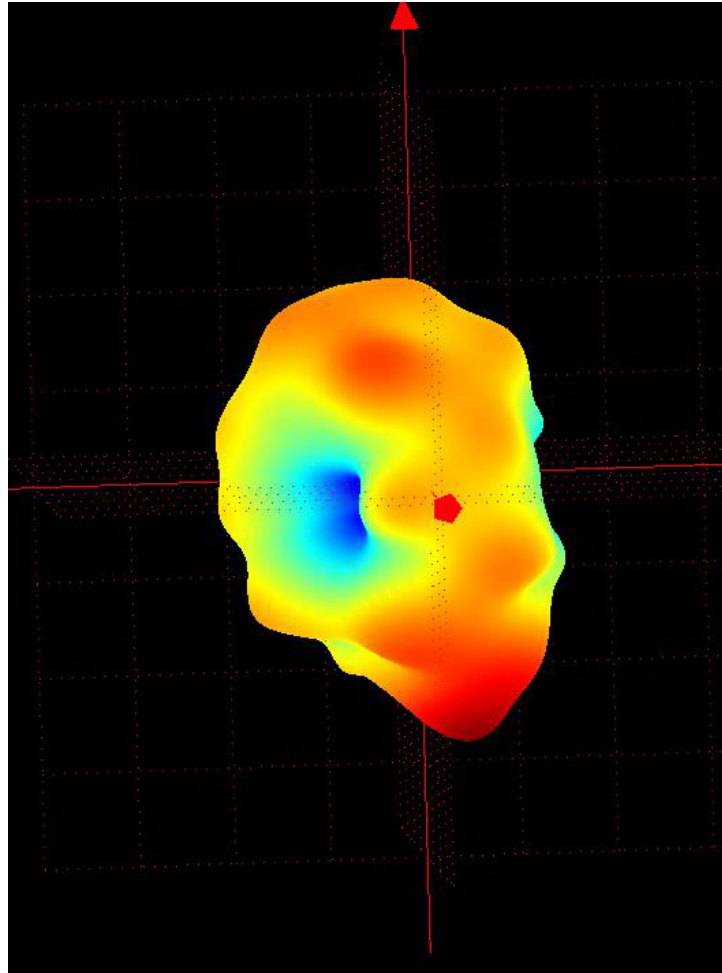
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3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

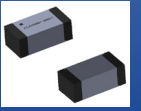
Radiation Patterns

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

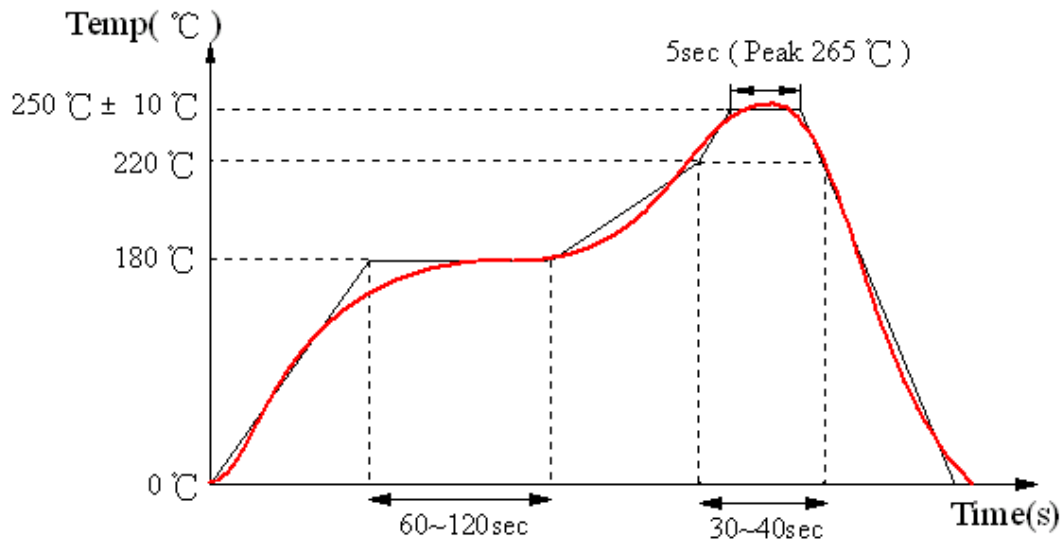


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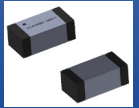


3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Reflow Soldering Standard Condition



2.45 GHz Ceramic Chip Antenna



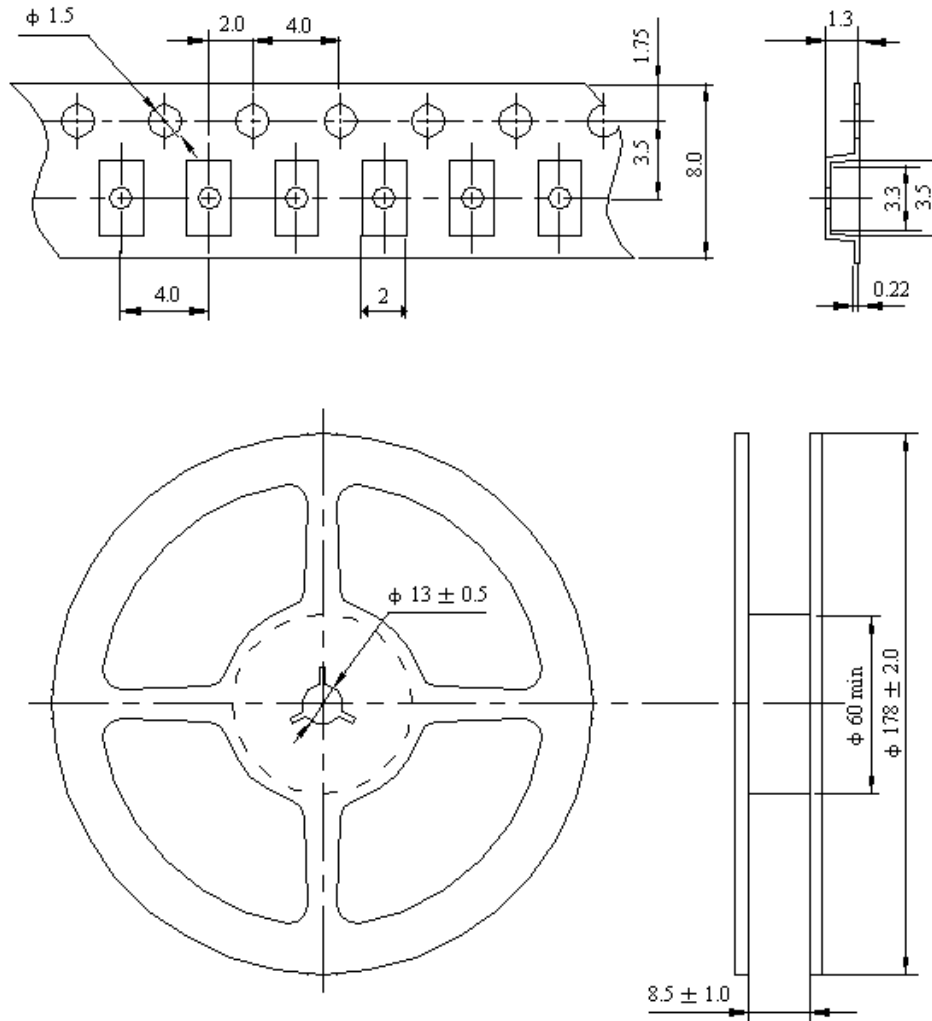
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3.2 x 1.6 x 1.2 mm
RoHS/RoHS II Compliant
MSL = N/A

Packaging

There are 3000 pcs/Reel.



Unit : mm

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