



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

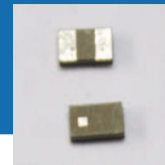
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Low profile Compact 2.4 GHz Ceramic Chip Antenna



ACAG0201-2450-T

2.0 x 1.25 x 0.6mm



RoHS/RoHS II Compliant

MSL = 1

FEATURES

- Gain of 2.7dBi
- VSWR ≤ 2.0
- Miniature form factor 2.0 x 1.25 x 0.6mm
- Made using LTCC technology (low temperature co-fired ceramic)
- Omni-directional

APPLICATIONS

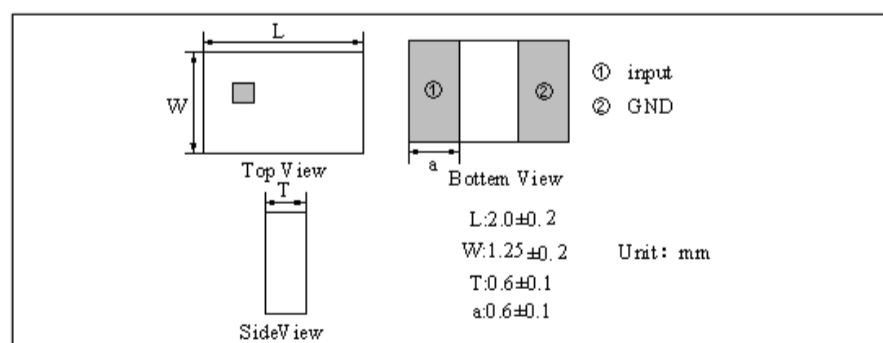
- IoT and wearable
- Wi-Fi
- Bluetooth/BLE
- ISM band

ELECTRICAL CHARACTERISTICS

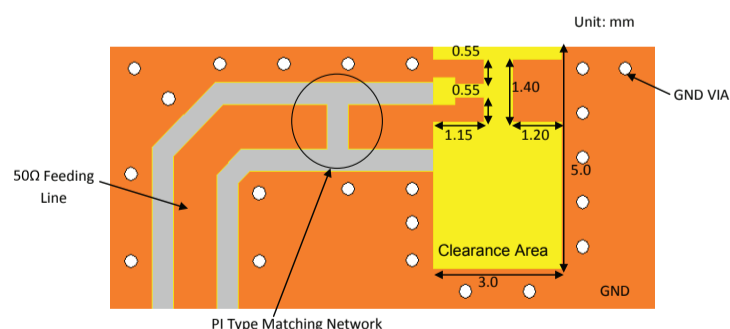
Item	Specification
Centre Frequency (After matching)	2450 MHz
Bandwidth	65 MHz typ
VSWR	≤ 2.0
Impedance	50 Ω
Gain	2.7 dBi
Azimuth	Omni-directional
Polarization	Linear
Operating Temperature range	-40°C ~ + 85°C

MECHANICAL DIMENSIONS (mm)

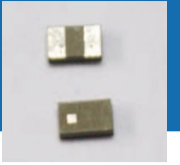
Antenna Dimensions



Layout Dimensions



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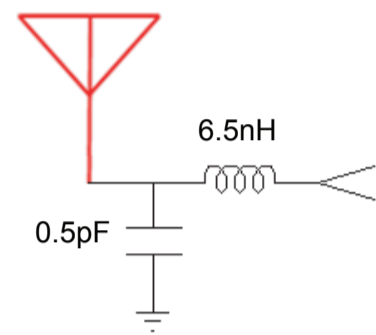
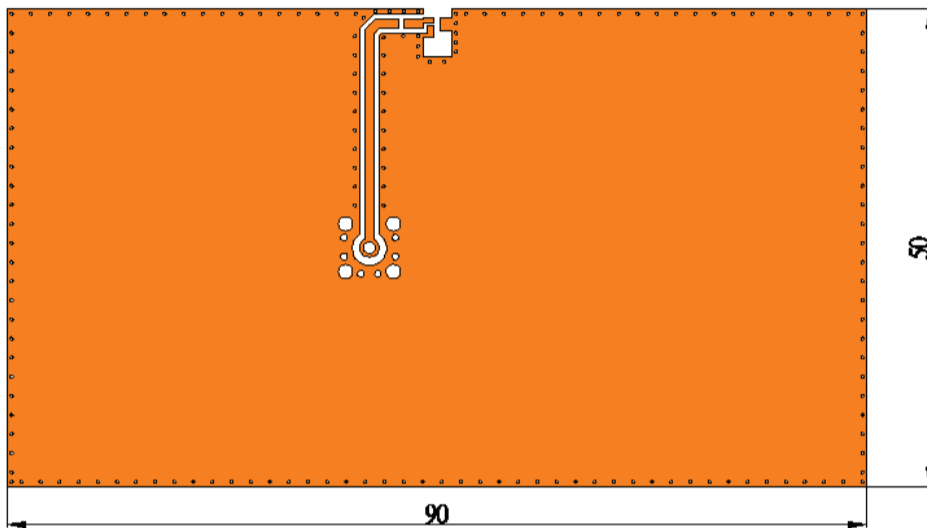
ACAG0201-2450-T



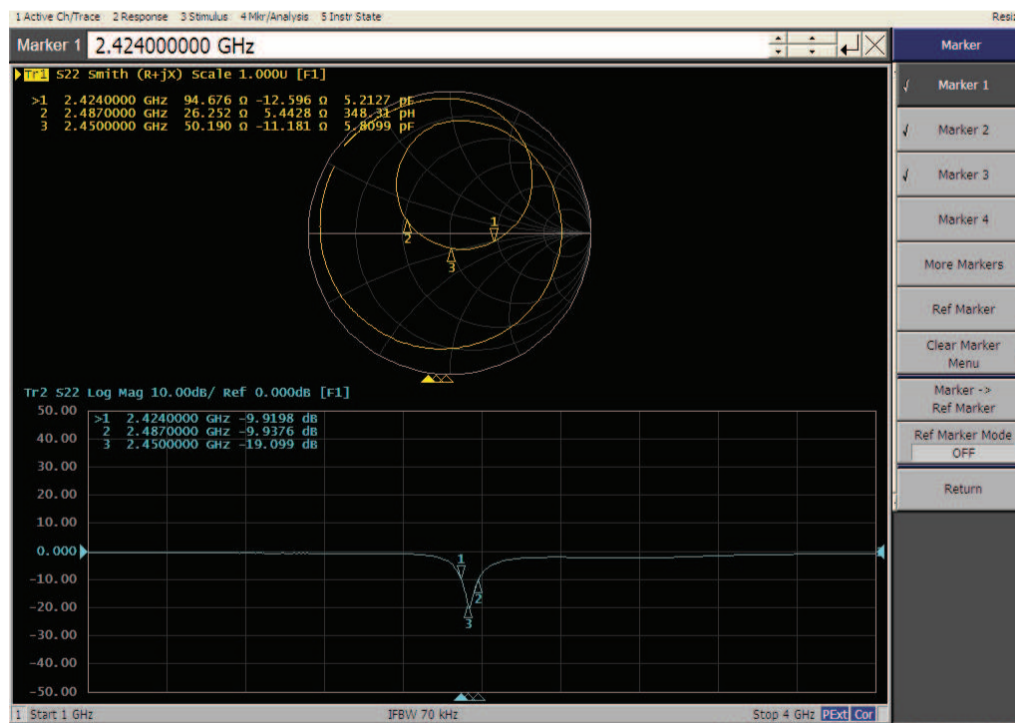
2.0 x 1.25 x 0.6mm
RoHS/RoHS II Compliant

MSL = 1

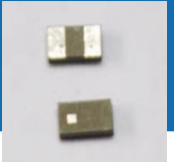
EVALUATION BOARD AND MATCHING CIRCUITS



ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11



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2.0 x 1.25 x 0.6mm

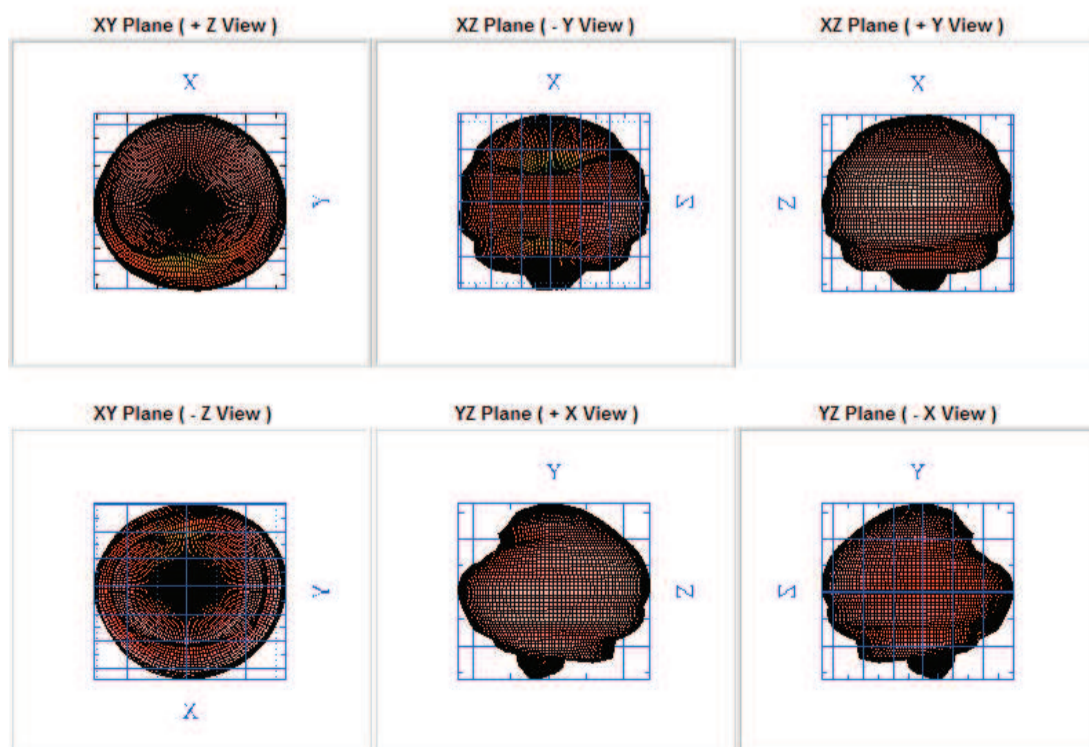
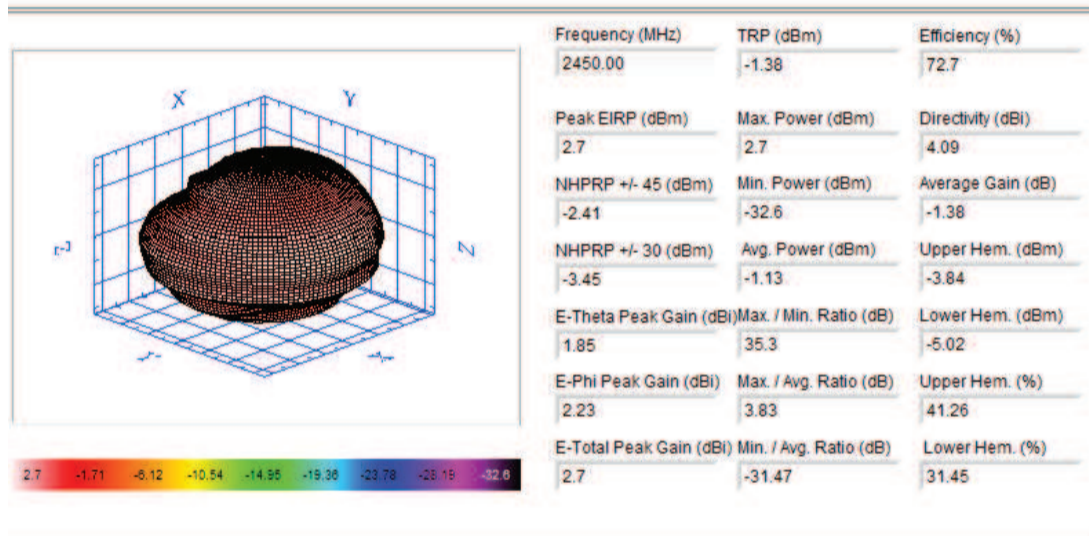
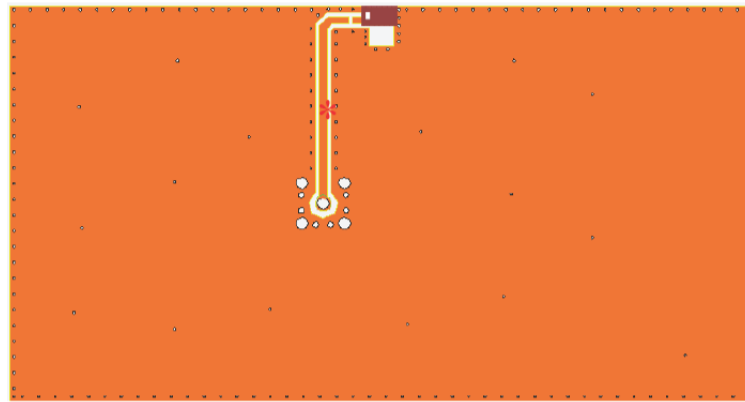
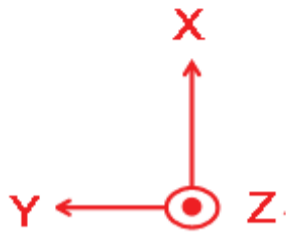


RoHS/RoHS II Compliant

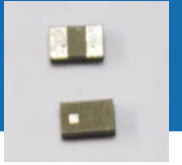
MSL = 1

RADIATION PATTERNS

Coordinates



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CAUTIONS

1. Static voltage

Static voltage between signal & ground may cause deterioration & destruction of the component. Please avoid static voltage.

2. Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

3. Soldering

Only leads of the component may be soldered. Please avoid soldering to any other part of the component, such as on the patterns as this will change the performance of the antenna.