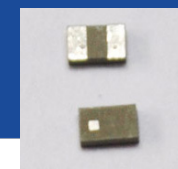
Low profile Compact 2.4 GHz Ceramic Chip Antenna



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

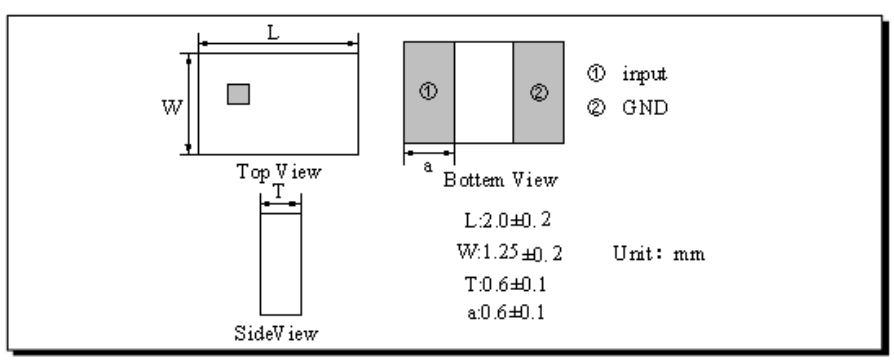
- IoT and wearable
- Wi-Fi
- Bluetooth/BLE
- ISM band

ELECTRICAL CHARACTERISTICS

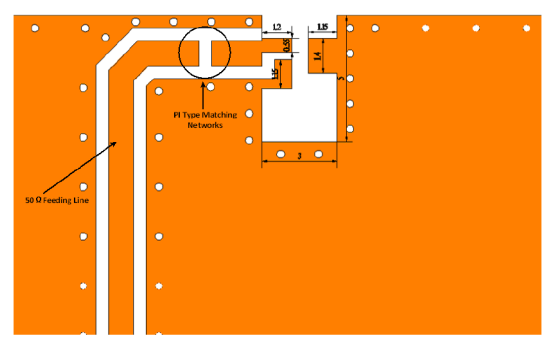
Item	Specification
Centre Frequency (After matching)	2450 MHz
Bandwidth	65 MHz typ
VSWR	≤2.0
Impedance	50Ω
Gain	2.7 dBi
Azimuth	Omni-directional
Polarization	Linear
Operating Temperature range	-40°C ~ + 125°C
Storage Temperature range	-40°C ~ + 125°C

MECHANICAL DIMENSIONS (mm)

Antenna Dimensions



Layout Dimensions



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
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ABRACON IS ISO9001-2015 CERTIFIED

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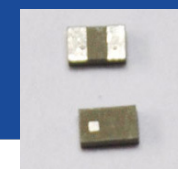

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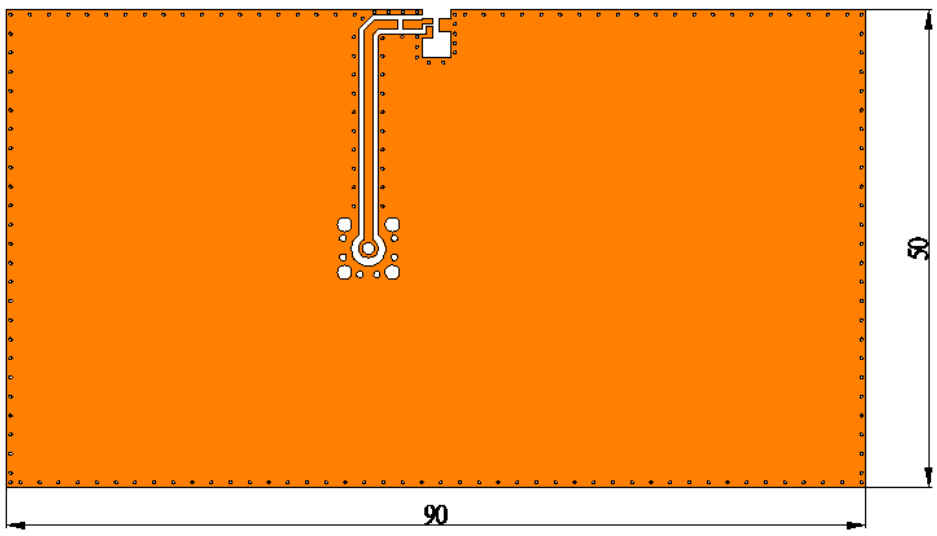
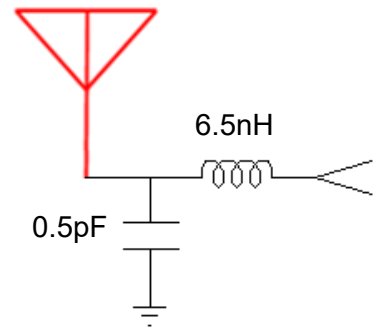
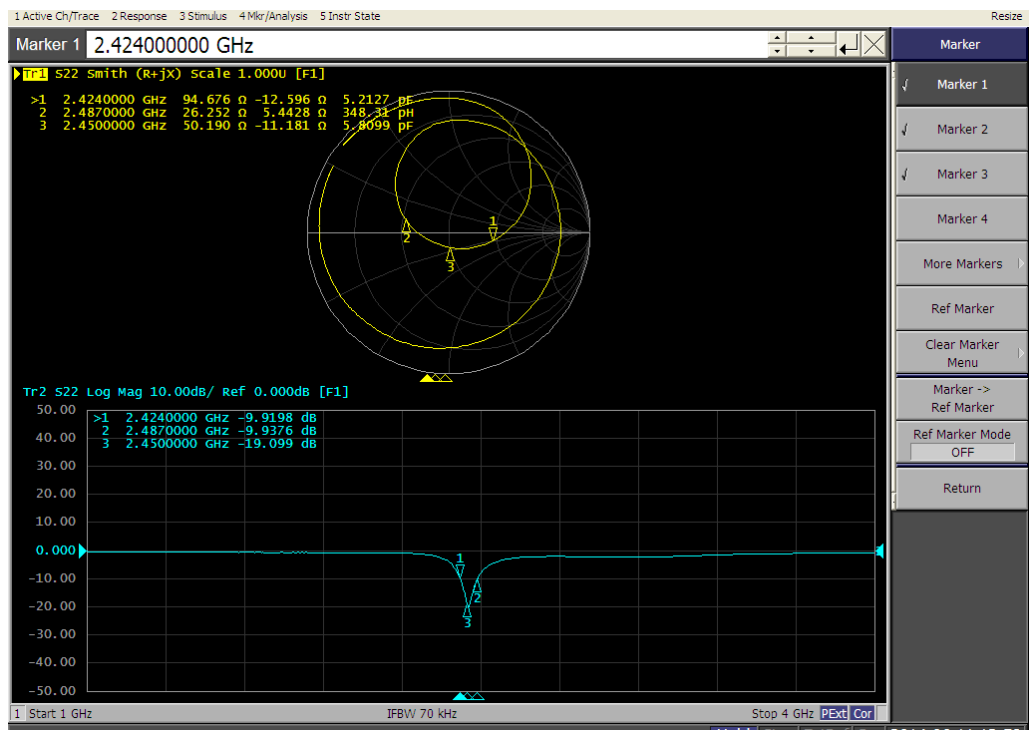
EVALUATION BOARD AND MATCHING CIRCUITS





ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11



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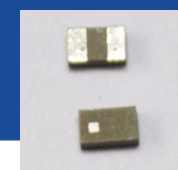

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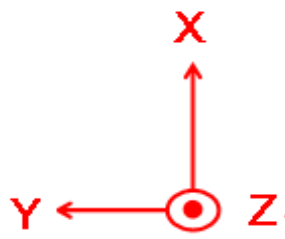
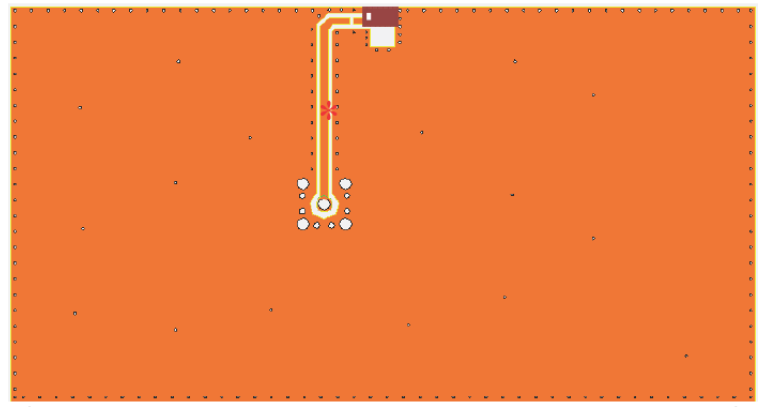
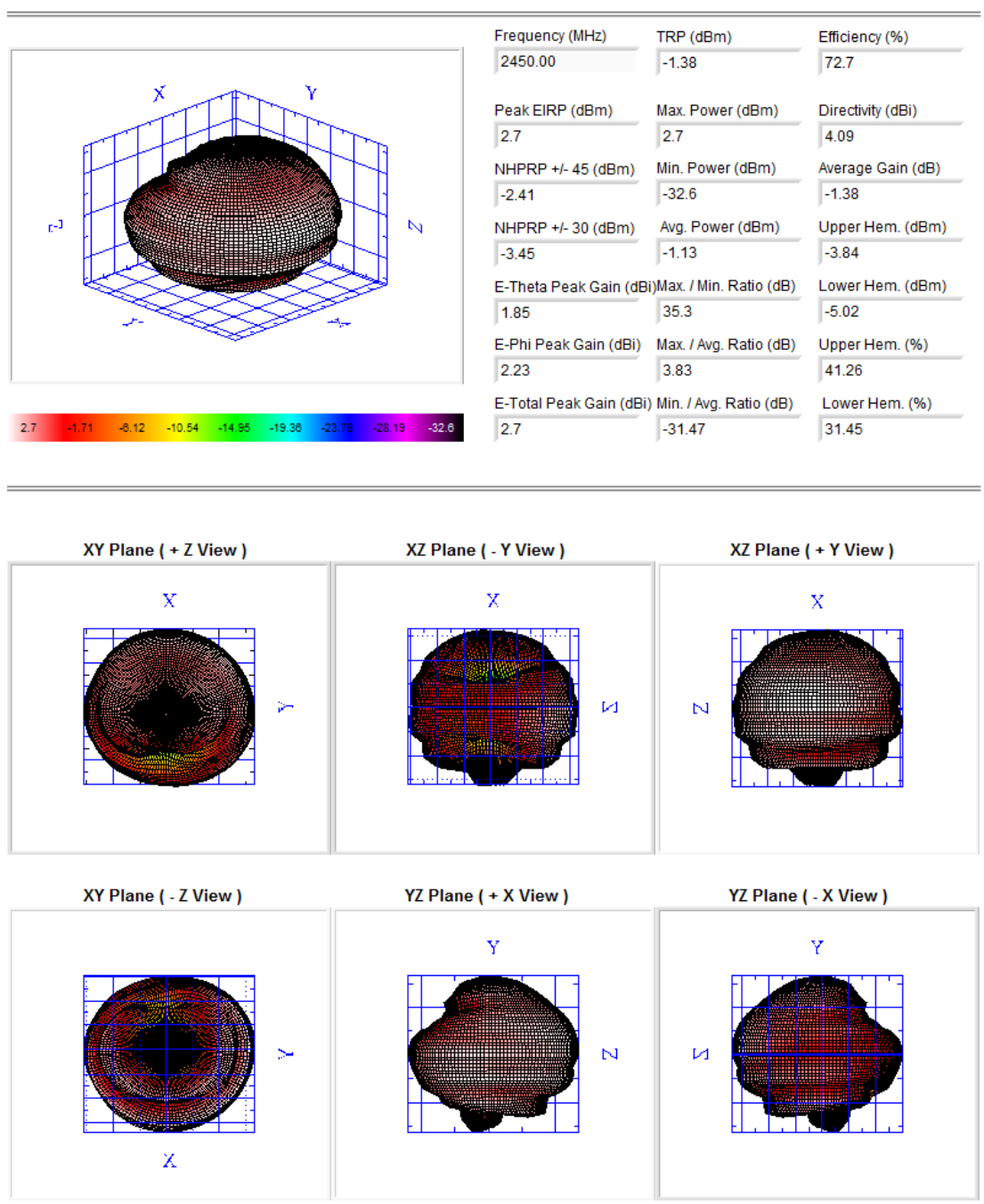
RADIATION PATTERNS

Coordinates







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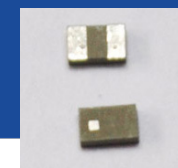

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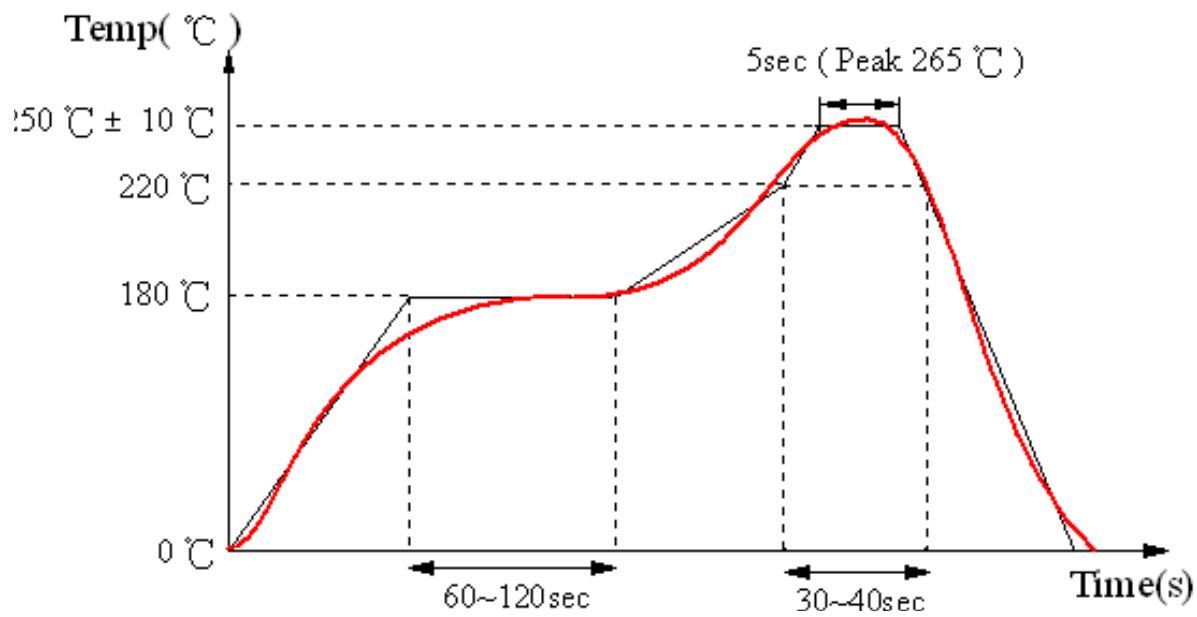
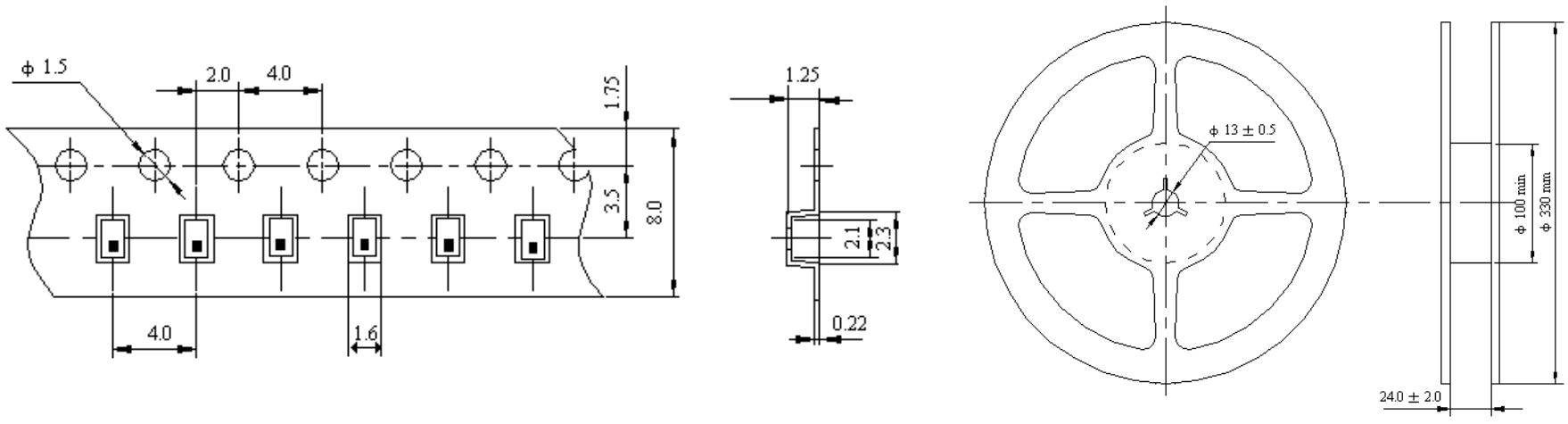
REFLOW SOLDERING STANDARD CONDITION



PACKAGING

Reel (4000 pcs/Reel)



Dimensions: mm

Storage Temperature Range : <30 degree C, Humidity : <60%RH
MSL - 1
Oxidizable, 12 months in a vacuum sealed bag.
Once opened, please repack the unused items within 168 hours by re-seal package treatment.

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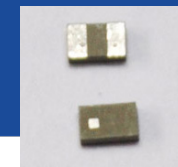

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CAUTIONS

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.

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