



**THE DATASHEET OF  
ANT1005LL14R2400A**

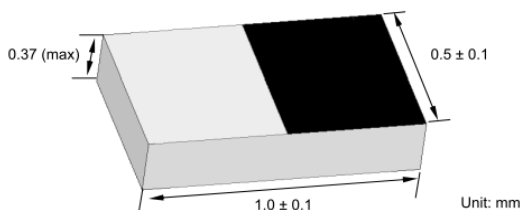


**Description: 1005 2.4G Chip Antenna**

**PART NUMBER: ANT1005LL14R2400A**

**Features:**

- Size : 1.0x0.5x0.37 mm
- Working Frequency : 2.4~2.5GHz
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



**Applications:**

- 2.4GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

All dimensions are in mm / inches

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

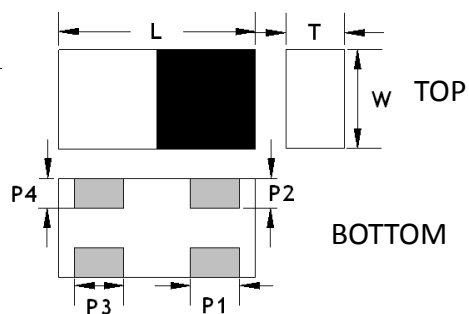
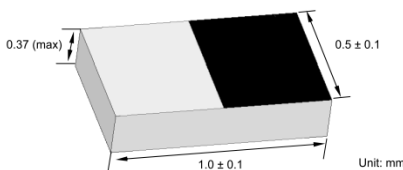
<b>Working Frequency</b>	2.4~2.484 GHz
<b>Bandwidth</b>	120 MHz(Typ.)
<b>VSWR</b>	3.0 Max
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	2.21 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	1 W
<b>Termination</b>	Ni / Sn (Environmentally-Friendly Leadless)
<b>Resistance to Soldering Heats</b>	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	1.00 ±0.10
W (mm)	0.50 ±0.10
T (mm)	0.37(Max.)
P1(mm)	0.25 +0.10/-0.05
P2(mm)	0.15 +0.10/-0.05
P3(mm)	0.25 +0.10/-0.05
P4(mm)	0.15 +0.10/-0.05



Terminal name	Function
P1	Ground Point
P2	Ground Point
P3	Feeding Point
P4	Feeding Point

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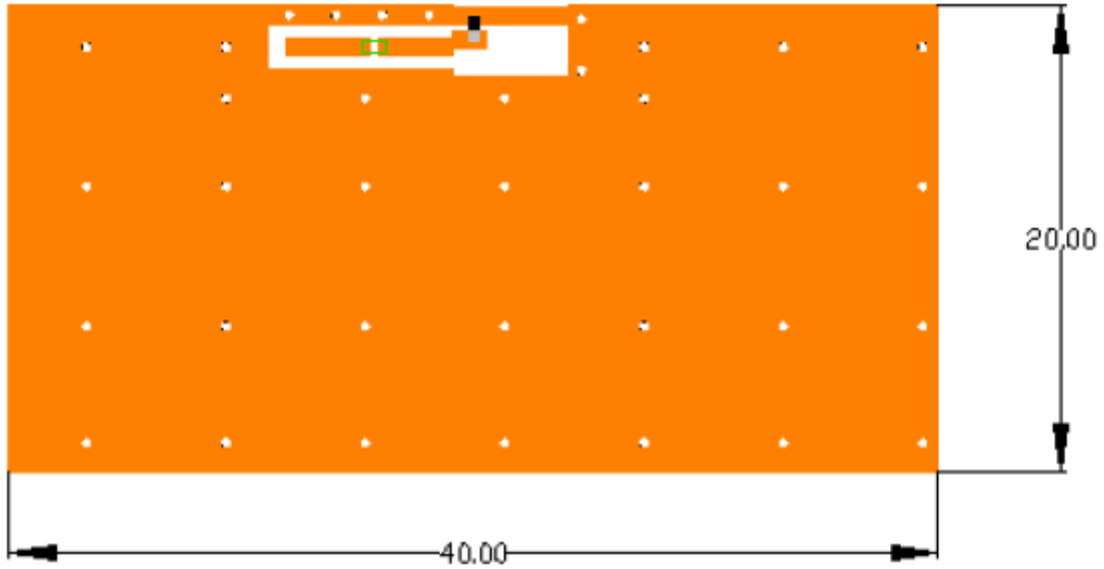
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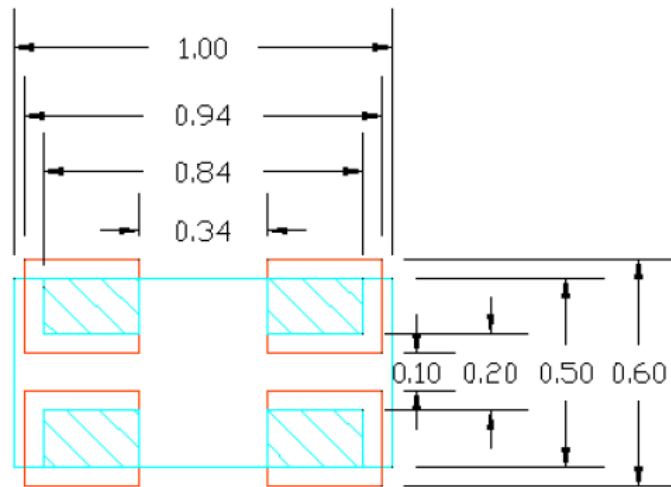
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**REFERENCE DESIGN OF EVALUATION BOARD**



Outlook and dimension of evaluation board



Unit:mm

Footprint

- : Chip Antenna
- : Land Pattern

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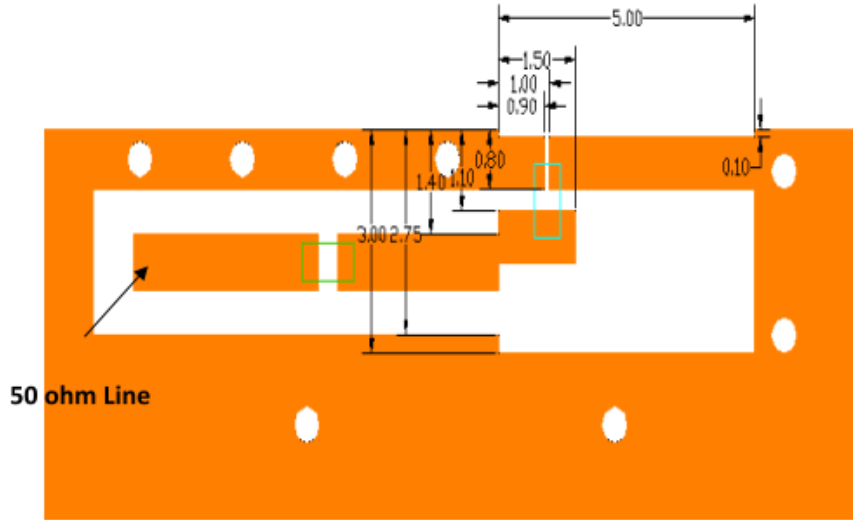
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**REFERENCE DESIGN OF EVALUATION BOARD**

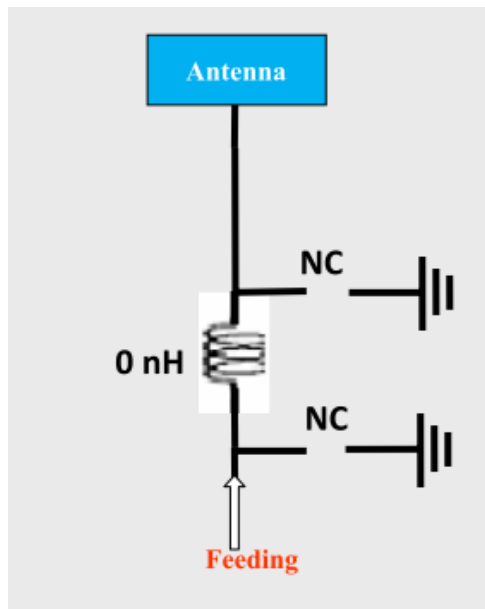
Clearance size: 5x 3mm



Unit : mm

- : Chip Antenna
- : L/C matching components
- : Land Pattern

Details of soldering Pad



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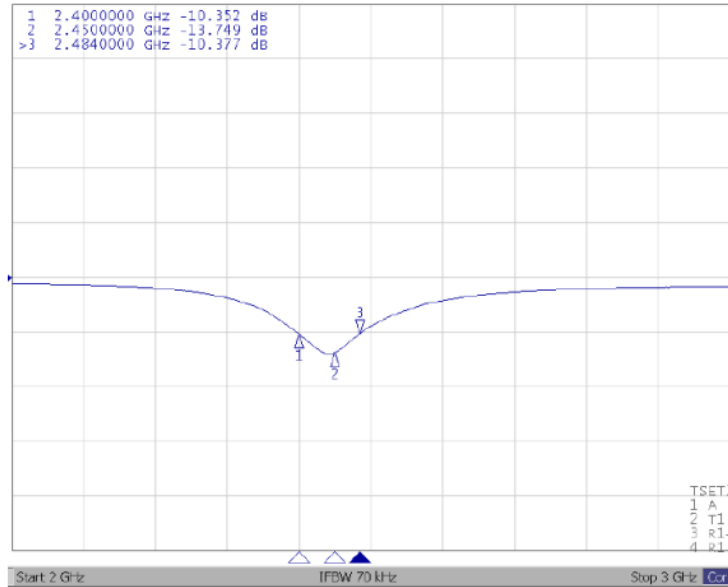
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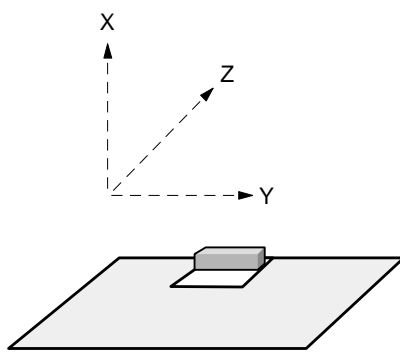
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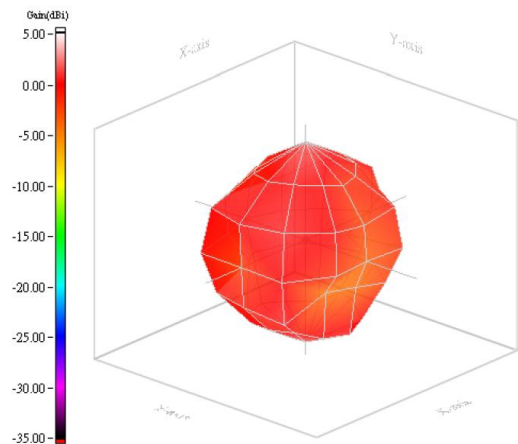
**ELECTRICAL PERFORMANCES**



Return loss



Evaluation board and XYZ direction



Radiation pattern

Max Gain = 2.21dBi  
Efficiency = 70.3%

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### REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 13, 2020	- New issue

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