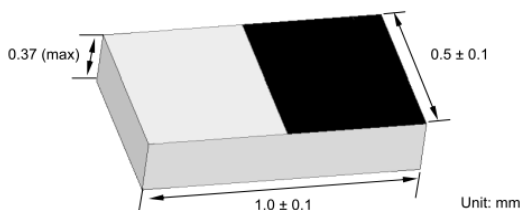


Description: 1005 2.4G Chip Antenna

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



Description: 1005 2.4G Chip Antenna

PART NUMBER: ANT1005LL14R2400A

ELECTRICAL SPECIFICATIONS

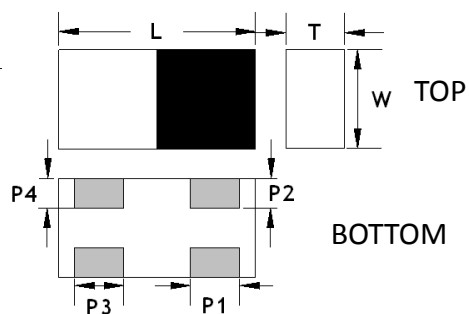
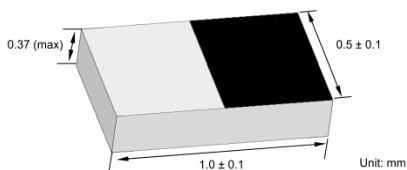
Working Frequency	2.4~2.484 GHz
Bandwidth	120 MHz(Typ.)
VSWR	3.0 Max
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.21 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats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

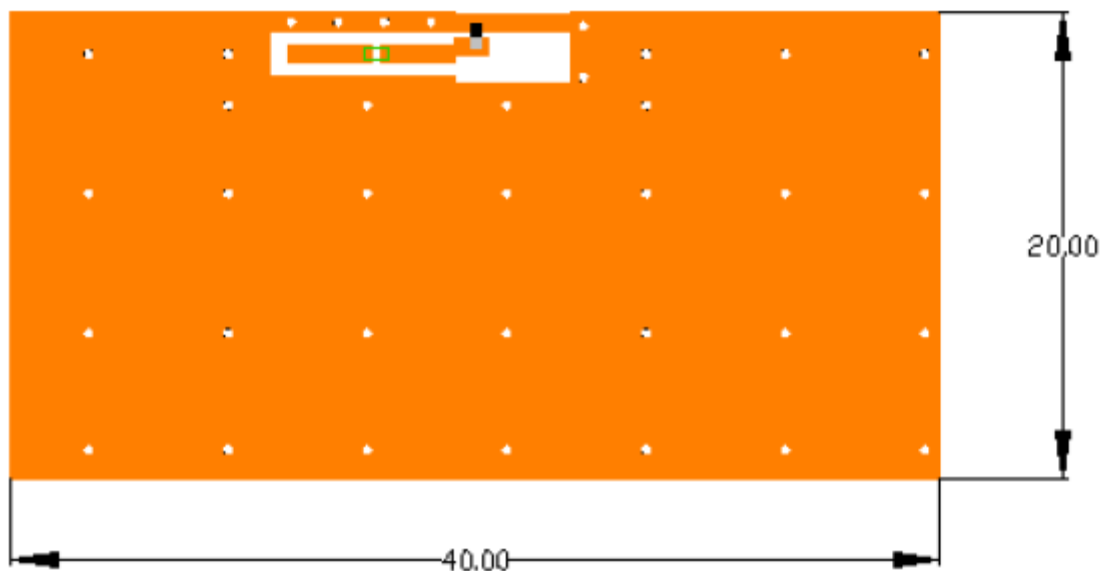


Terminal name	Function
P1	Ground Point
P2	Ground Point
P3	Feeding Point
P4	Feeding Point

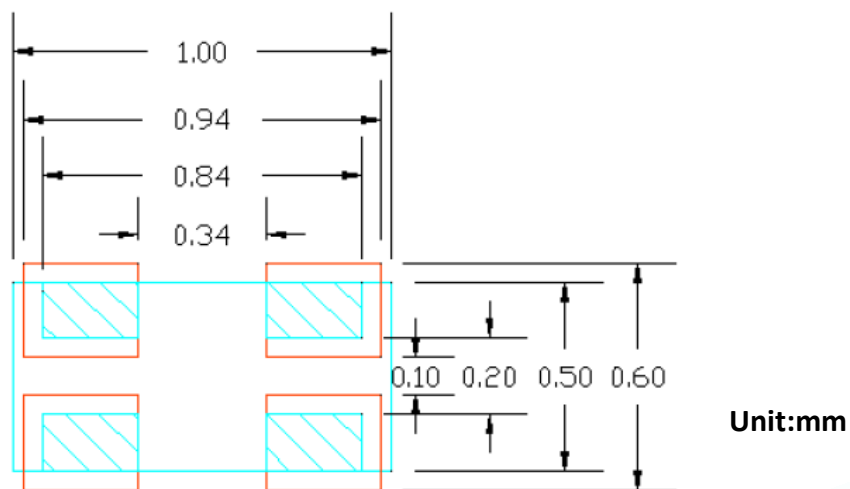
Description: 1005 2.4G Chip Antenna

PART NUMBER: ANT1005LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Footprint

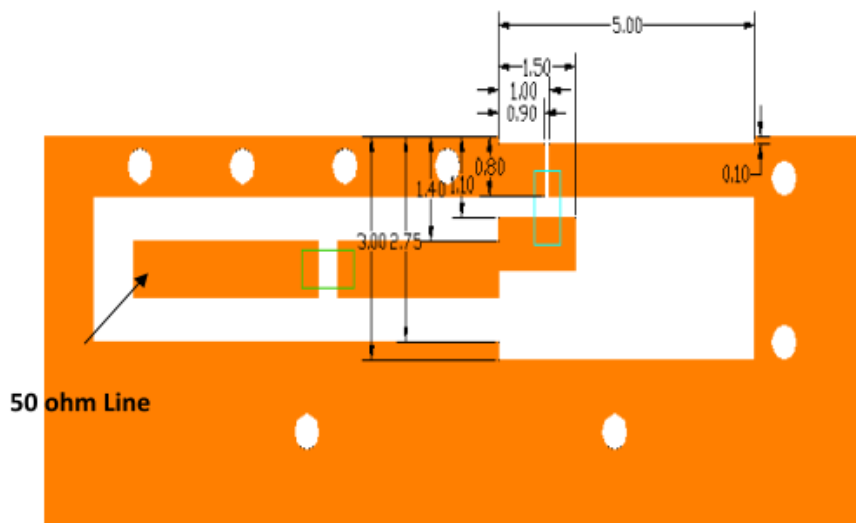
- : Chip Antenna
- : Land Pattern

Description: 1005 2.4G Chip Antenna

PART NUMBER: ANT1005LL14R2400A

REFERENCE DESIGN OF EVALUATION BOARD

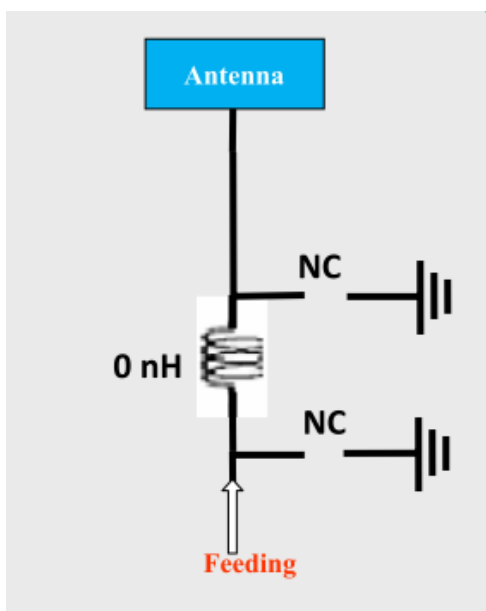
Clearance size: 5x 3mm



Unit : mm

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

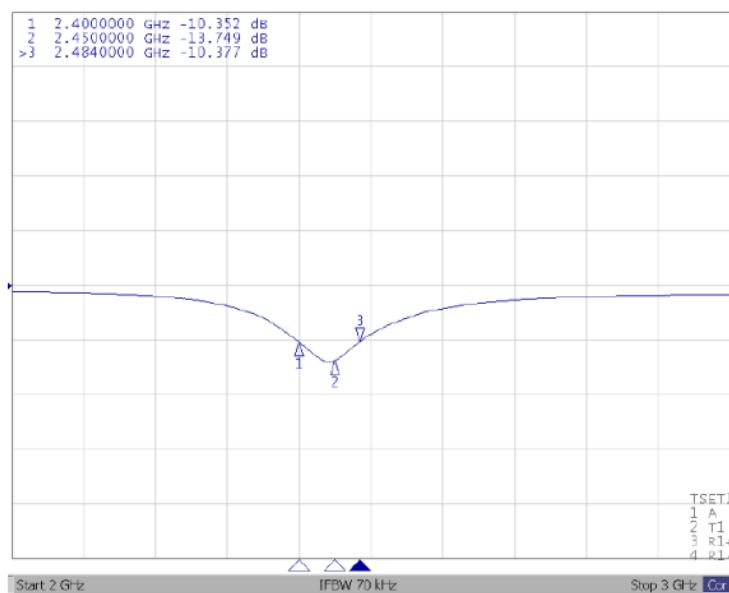
Details of soldering Pad



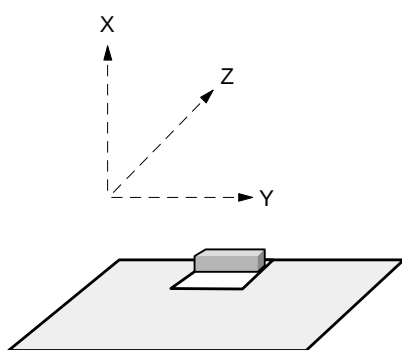
Description: 1005 2.4G Chip Antenna

PART NUMBER: ANT1005LL14R2400A

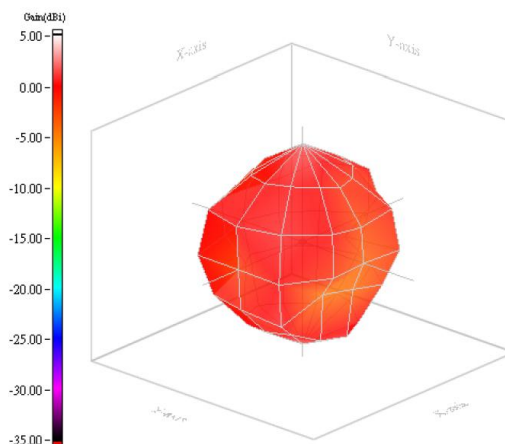
ELECTRICAL PERFORMANCES



Return loss



Evaluation board and XYZ direction



Max Gain = 2.21dBi
Efficiency = 70.3%

Radiation pattern

Description: 1005 2.4G Chip Antenna

PART NUMBER: ANT1005LL14R2400A

REVISION HISTORY

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

Mouser Electronics

Authorized Distributor

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

Pulse:

[ANT1005LL14R2400A](#)