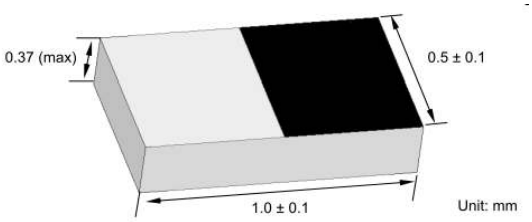
Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

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.

RoHS COMPLIANT

For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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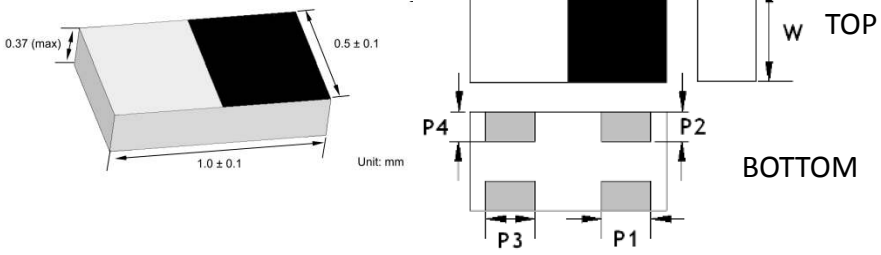
ELECTRICAL SPECIFICATIONS

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 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 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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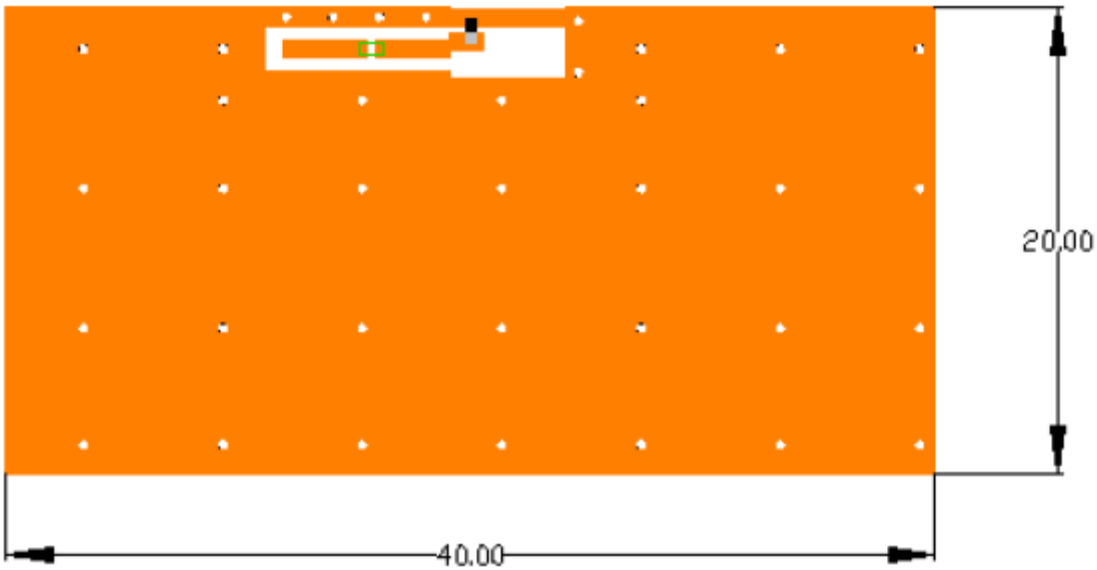
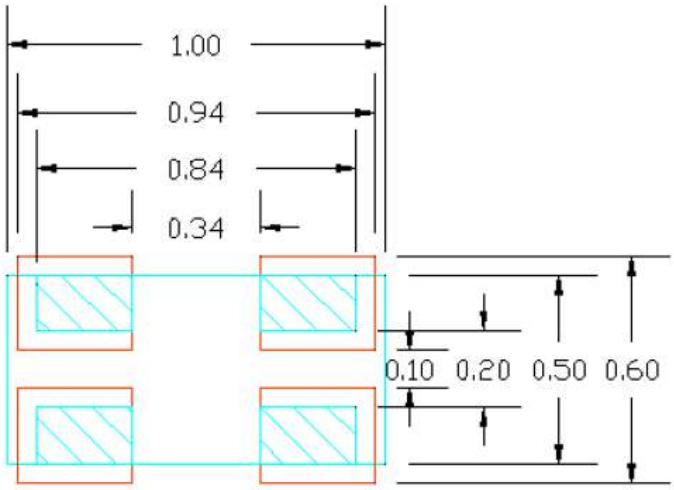
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Unit:mm

Footprint

: Chip Antenna
: Land Pattern

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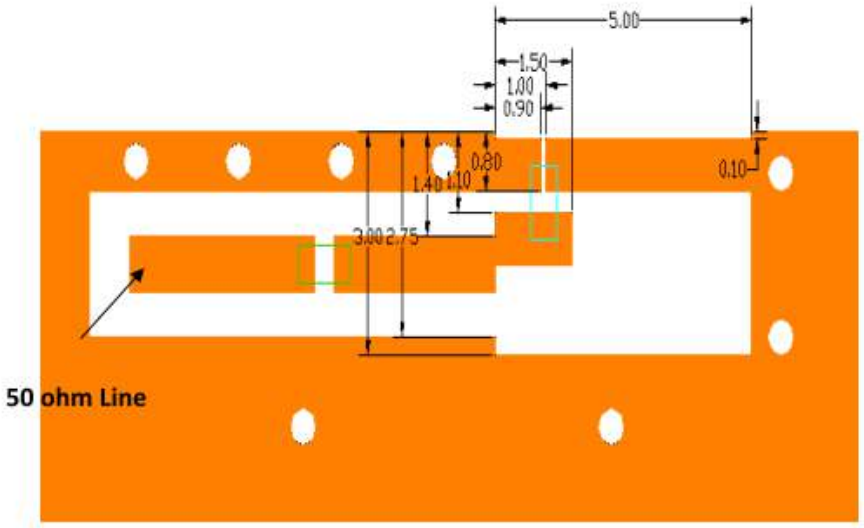
REFERENCE DESIGN OF EVALUATION BOARD

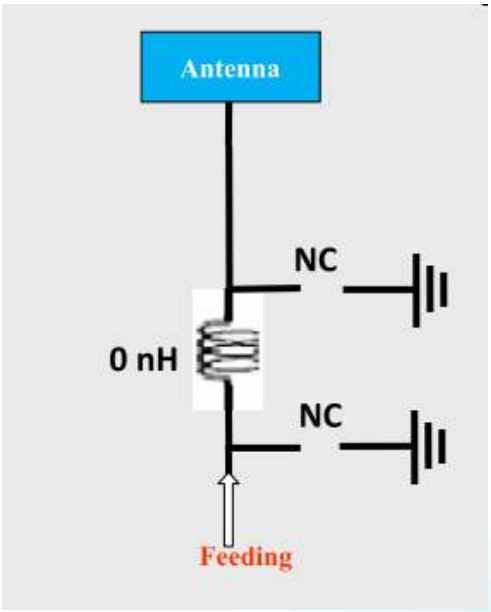
Clearance size: 5x 3mm



Unit : mm

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

Details of soldering Pad



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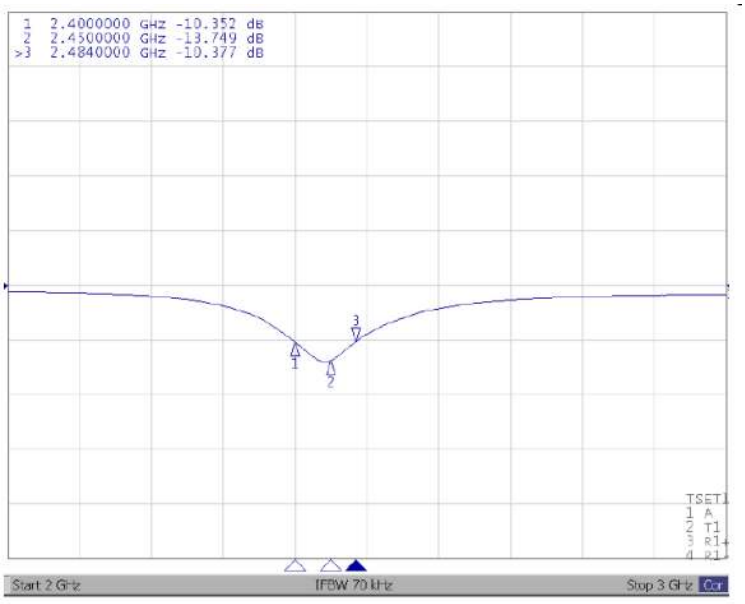
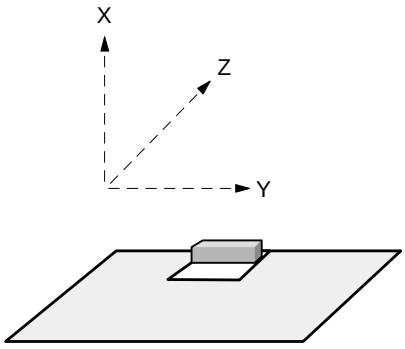
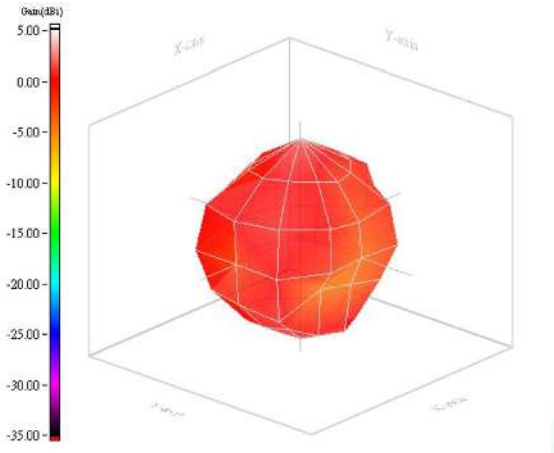
ELECTRICAL PERFORMANCES



Return loss



Evaluation board and XYZ direction



Max Gain = 2.21dBi
Efficiency = 70.3%

Radiation pattern

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REVISION HISTORY

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