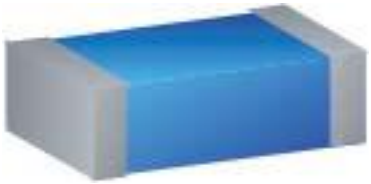
Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

# **Description**: 2012 2.4GHz Chip Antenna

## PART NUMBER: ANT2012LL00R2400A



## Features:

- Size : 2.0x1.2x1.1 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



RoHS COMPLIANT

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Tel: 86 512 6807 9998

# Description: 2012 2.4GHz Chip Antenna

## PART NUMBER: ANT2012LL00R2400A

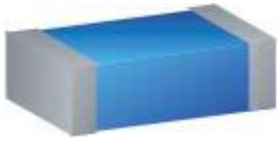
## ELECTRICAL SPECIFICATIONS

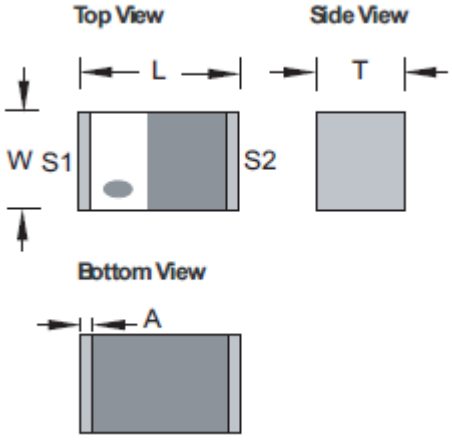
| | |
|---|---|
| **Working Frequency** | 2.45 GHz |
| **Bandwidth** | 370 MHz(Typ.) |
| **Return Loss** | 10.0 dB Min |
| **Polarization** | Linear |
| **Azimuth Beamwidth** | Omni-directional |
| **Peak Gain** | 3.77 dBi(Typ.) |
| **Impedance** | 50 Ω |
| **Operating Temperature** | - 40~105 ℃ |
| **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) | 2.00 ±0.20 |
| W (mm) | 1.25 ±0.20 |
| T (mm) | 1.10 ±0.10 |
| A (mm) | 0.15 ±0.10 |






| Terminal name | Function |
|---|---|
| S1 | Feeding Point |
| S2 | Soldering Point |

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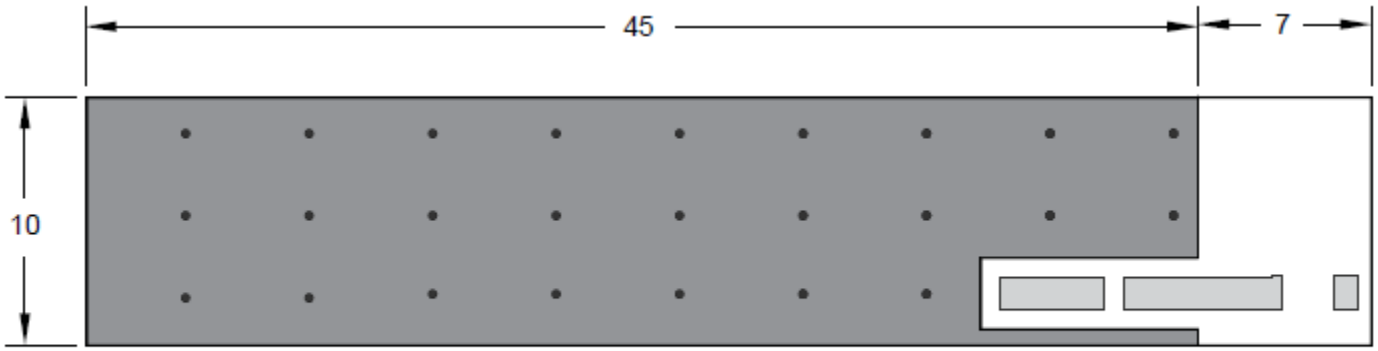
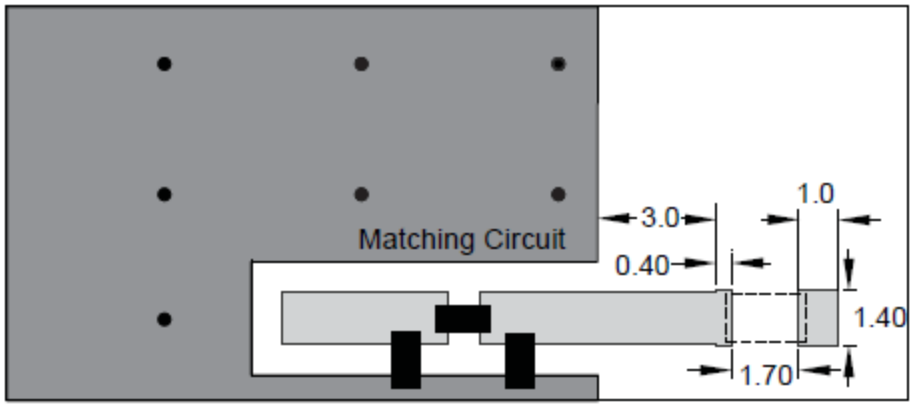
## REFERENCE DESIGN OF EVALUATION BOARD




Unit : mm

Outlook and dimension of evaluation board




Top Layer
Bottom Layer

Unit : mm

Details of soldering Pad

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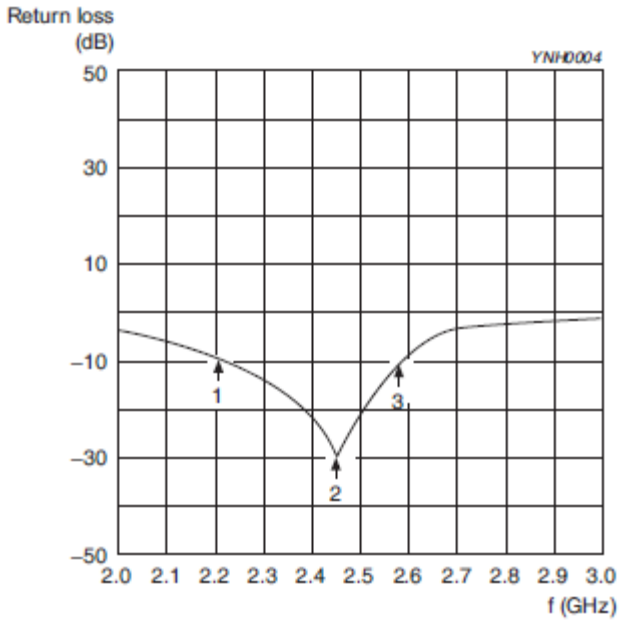
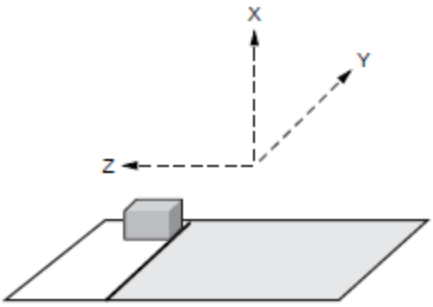
## ELECTRICAL PERFORMANCES

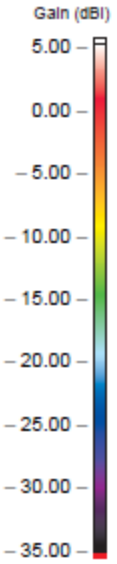


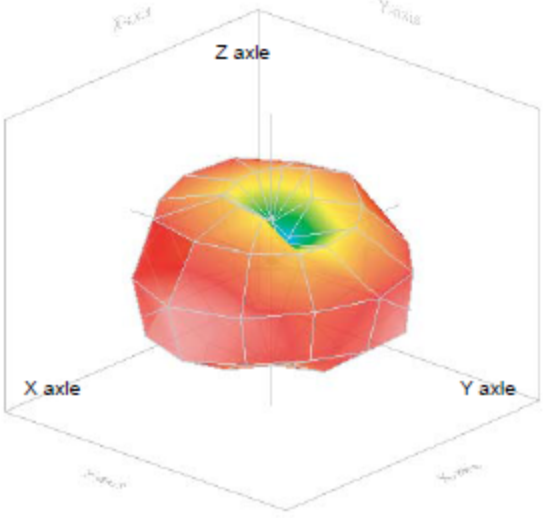

Marker data
1. 2.21GHz, -10dB
2. 2.45GHz, -28.5dB
3. 2.58GHz, -10dB

Return loss




Evaluation board and XYZ direction




Radiation pattern

Frequency = 2.45 GHz
Max gain = 3.77 dBi, at (90,240)
MEG (mean effective gain)= -193 dBi
Directivity (dB) = 4.61
Efficiency = -0.84 dB, 82.93 %

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## REVISION HISTORY

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

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