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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

# Description: 1204 915MHz FR4 Chip Antenna

## PART NUMBER: ANT1204F005R0915A




## Features:

- Size : 12.2 x 4.0 x 1.6 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

## Applications:

- Smart meter
- Industrial remote control

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For more information:

RoHS COMPLIANT

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## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **Centre Frequency** | 915 MHz |
| **Bandwidth** | 30 MHz (Typ.) |
| **Return Loss** | 10 dB Min |
| **Polarization** | Linear |
| **Azimuth Beamwidth** | Omni-directional |
| **Peak Gain** | 1.59 dBi(Typ.) |
| **Impedance** | 50 Ω |
| **Operating Temperature** | - 40~85 ℃ |
| **Maximum Power** | 1 W |
| **Termination** | Cu / Au (Environmentally-Friendly Leadless) |
| **Resistance to Soldering Heats** | 260℃ , 10sec. |

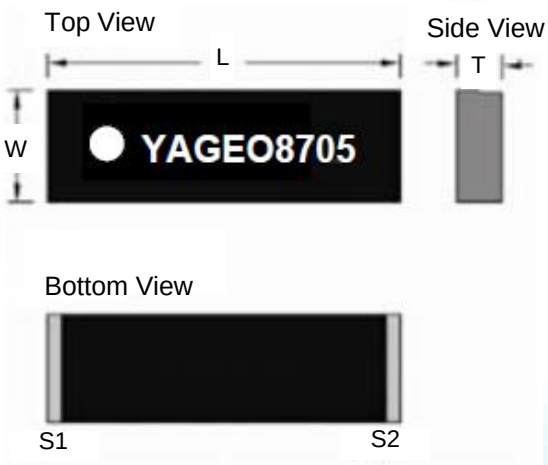
NOTE
1. The specification is defined on Pulse evaluation board

## MECHANICAL DRAWING

| | Dimension |
|---|---|
| L (mm) | 12.2 ±0.2 |
| W (mm) | 4.0 ±0.2 |
| T (mm) | 1.6 ±0.2 |

| TERMINATION | Function |
|---|---|
| S1 | Feeding Point |
| S2 | Soldering Point |




Antenna outlines

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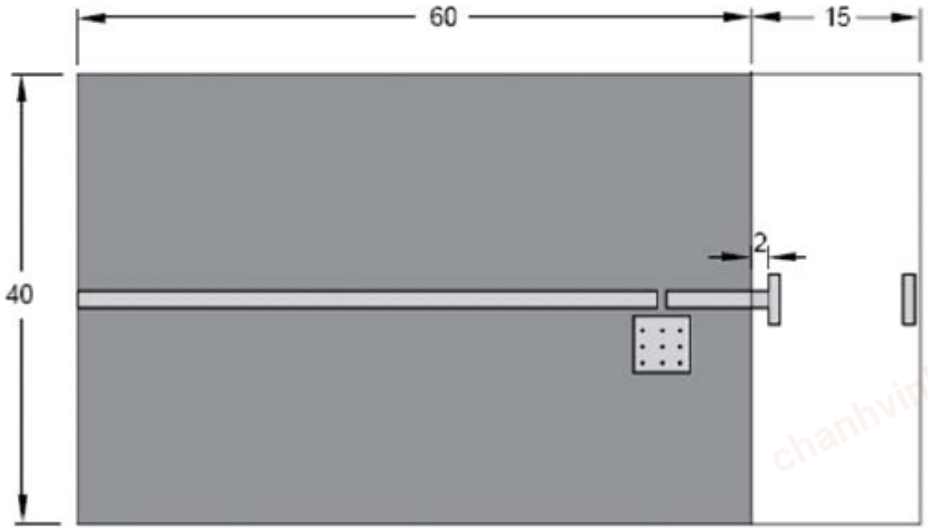
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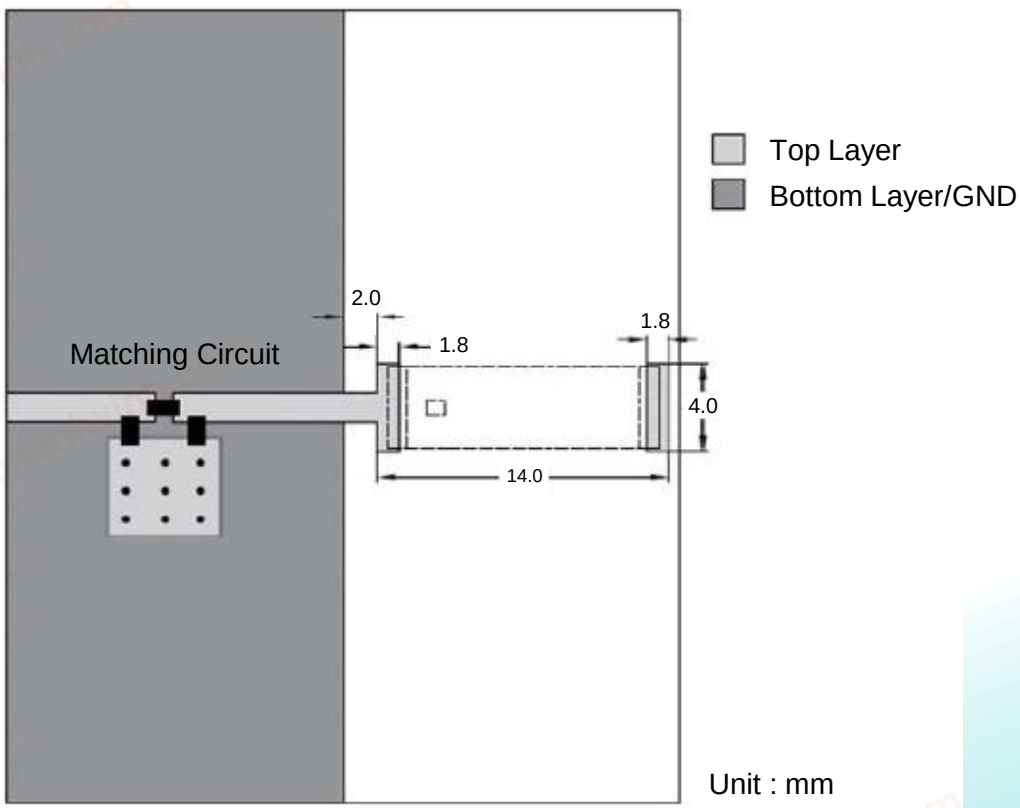
**PART NUMBER: ANT1204F005R0915A**

## REFERENCE DESIGN OF EVALUATION BOARD




Unit: mm

Outlook and dimension of evaluation board




Details of soldering Pad

Unit : mm

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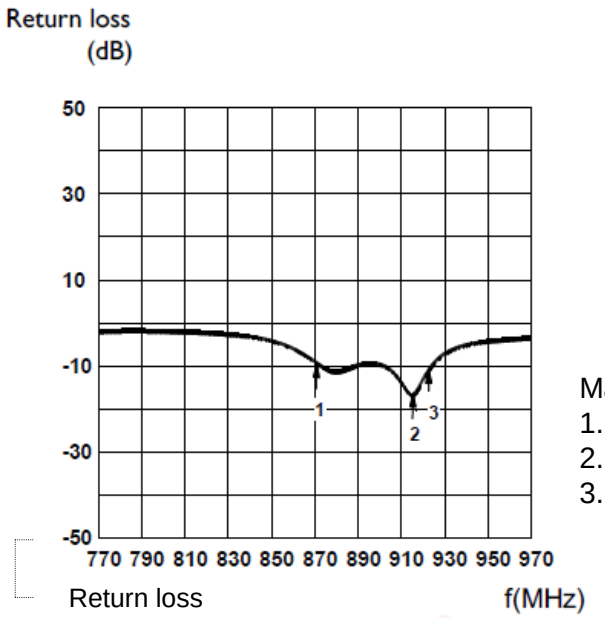
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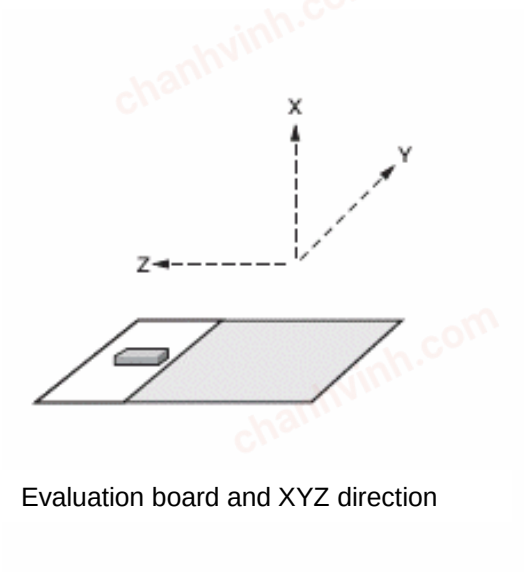
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## ELECTRICAL PERFORMANCES

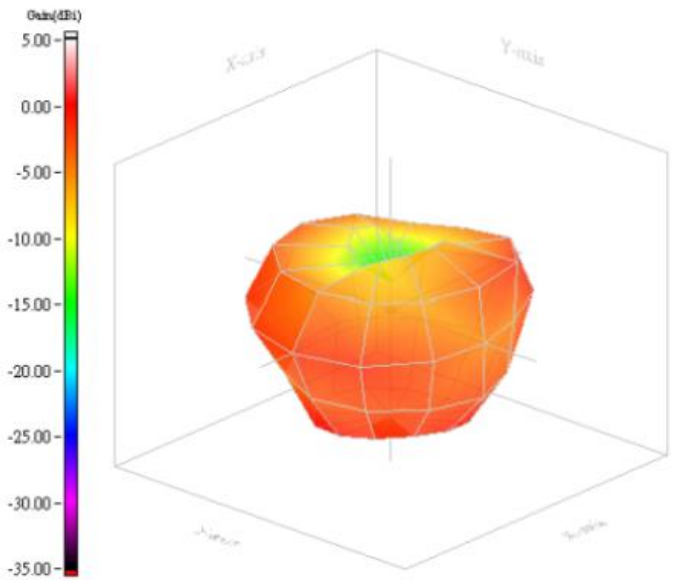



Return loss

Marker data
1. 870 MHz, -10dB
2. 915 MHz, -16.73dB
3. 926 MHz, -10dB




Evaluation board and XYZ direction




Max gain = 1.59dBi, at (150,180)
MEG (mean effective gain) = -3.56dBi
Directivity (dB) = 4.57
Efficiency = -2.98dB, 50.30%

Radiation pattern

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## REVISION HISTORY

| Revision | Date | Description |
|---|---|---|
| Version 1 | Mar. 9, 2021 | - New issue for Pulse version. |

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