

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

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

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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 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Cu / Au (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 10sec.

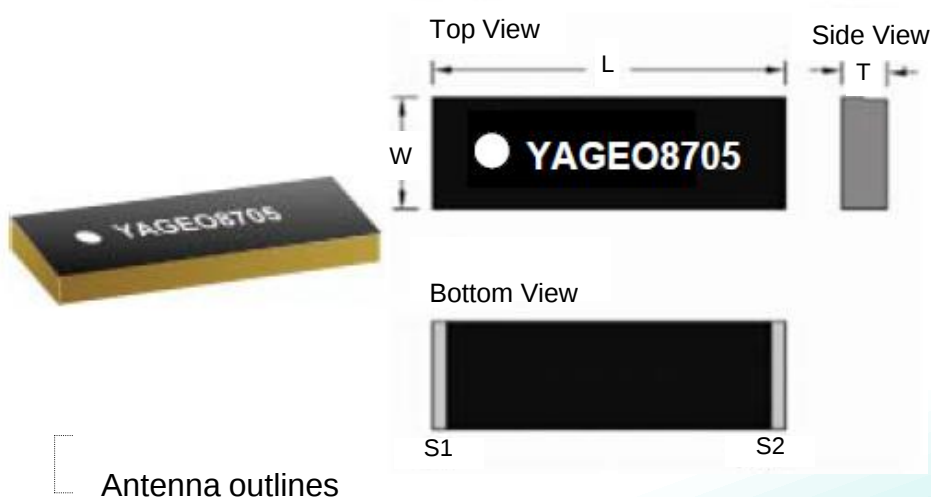
NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	12.2 $\pm$ 0.2
W (mm)	4.0 $\pm$ 0.2
T (mm)	1.6 $\pm$ 0.2

TERMINATION	Function
S1	Feeding Point
S2	Soldering Point



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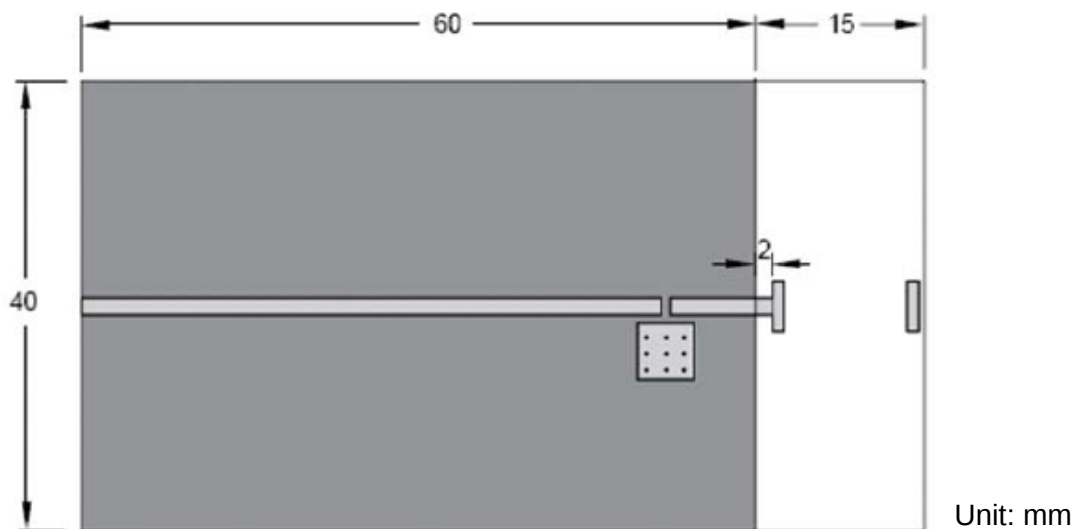
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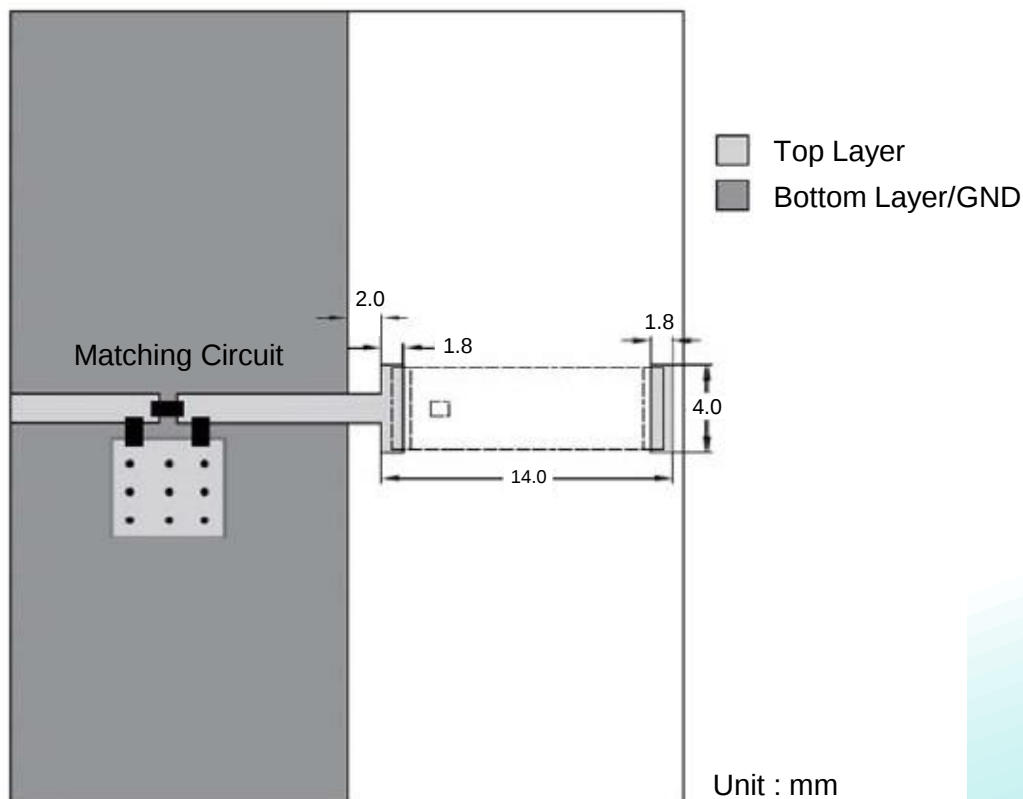
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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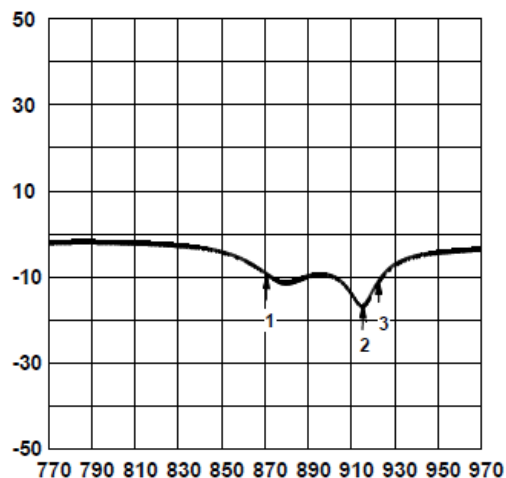
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ELECTRICAL PERFORMANCES

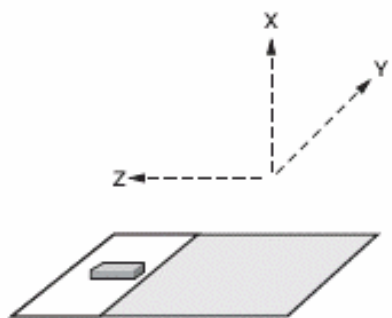
Return loss
(dB)



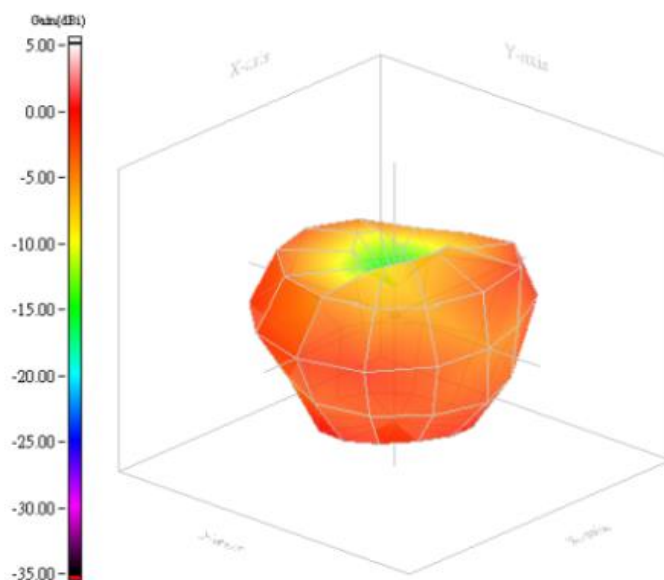
Marker data

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

Return loss f(MHz)



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.