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

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
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Tel: 1-360-944-7551

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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

Description: 1204 915MHz FR4 Chip Antenna

PART NUMBER: ANT1204F005R0915A

ELECTRICAL SPECIFICATIONS

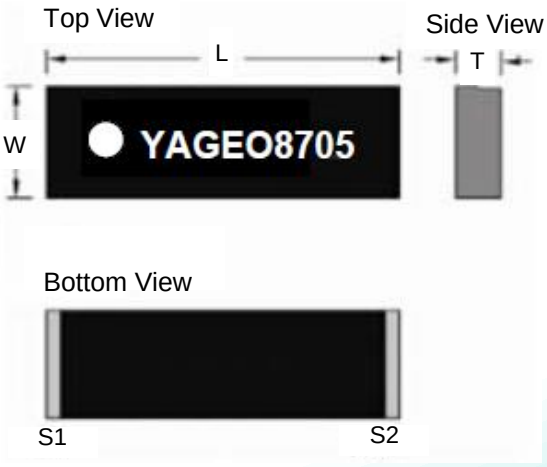
Centre Frequency	915 MHz
Bandwidth	30 MHz (Typ.)
Return Loss	10 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.59 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~85 ℃
Maximum Power	1 W
Termination	Cu / Au (Environmentally-Friendly Leadless)
Resistance to Soldering Heats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

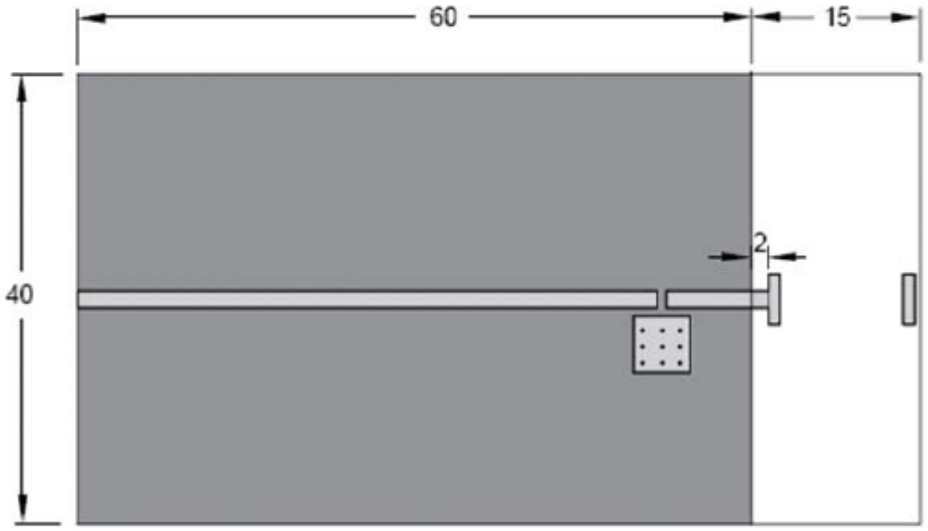


Antenna outlines

Description: 1204 915MHz FR4 Chip Antenna

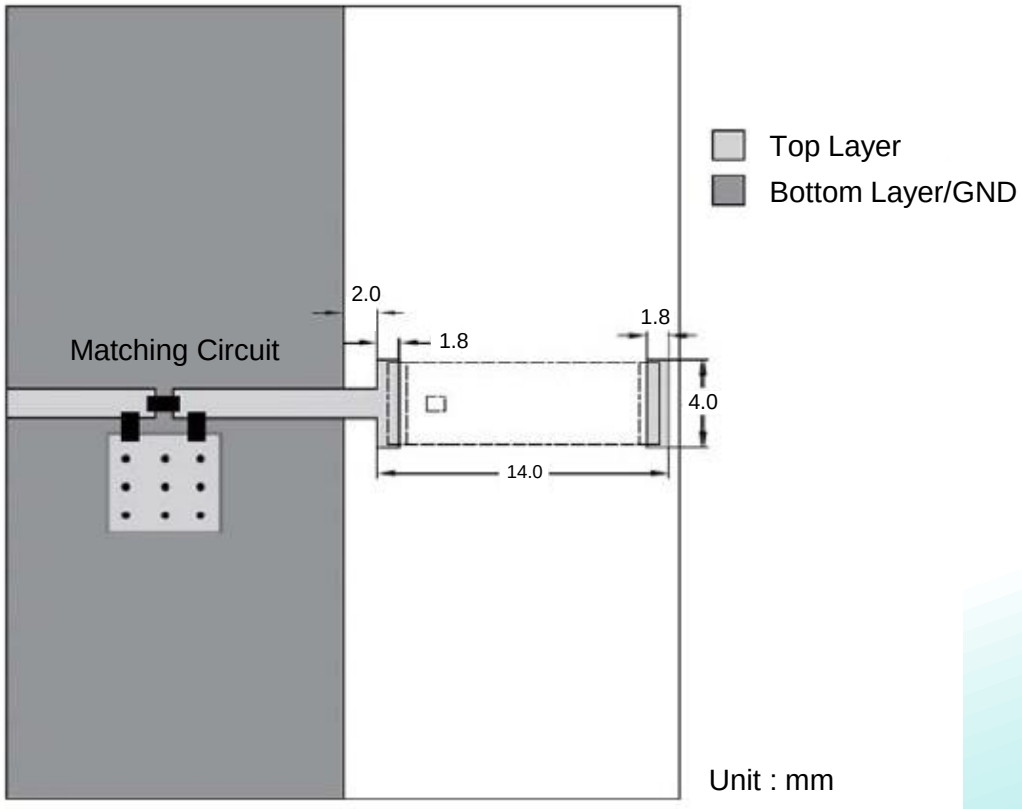
PART NUMBER: ANT1204F005R0915A

REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm

Outlook and dimension of evaluation board



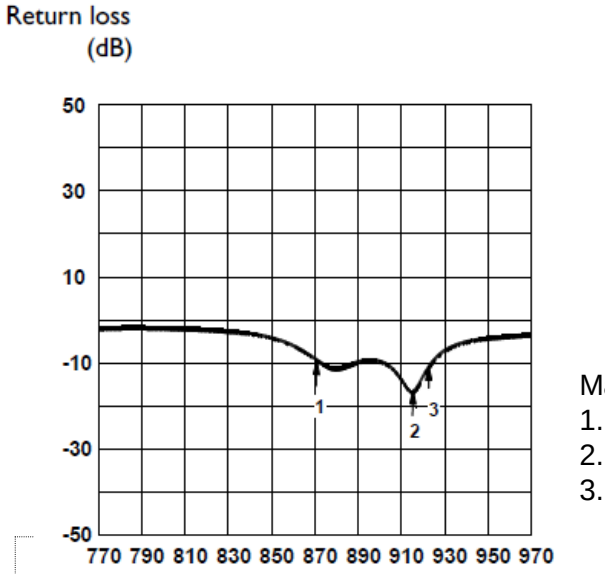
Details of soldering Pad

Unit : mm

Description: 1204 915MHz FR4 Chip Antenna

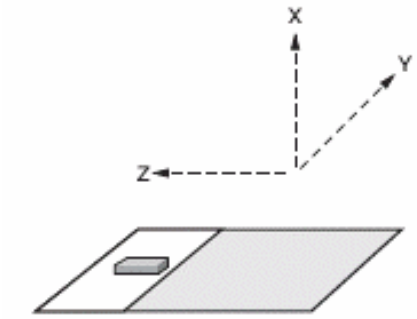
PART NUMBER: ANT1204F005R0915A

ELECTRICAL PERFORMANCES

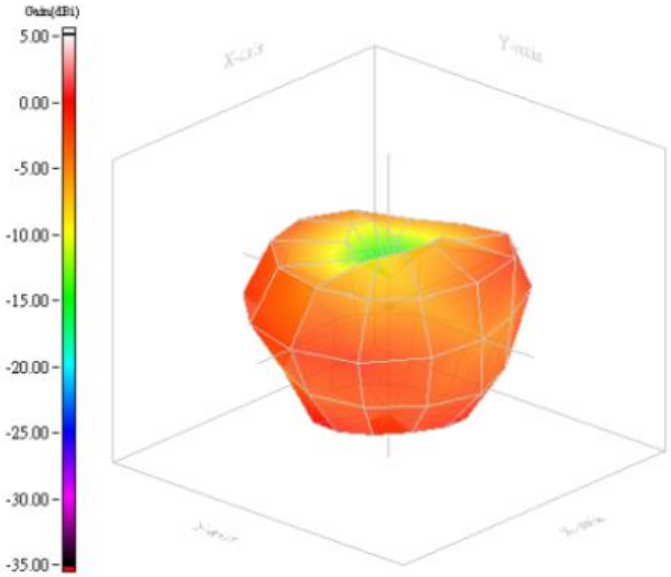


Return loss

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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