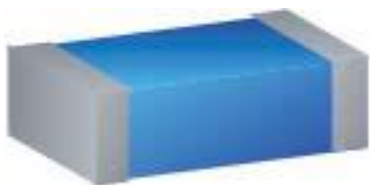


Description: 2012 2.4GHz Chip Antenna

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

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

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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 & Co, 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: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

ELECTRICAL SPECIFICATIONS

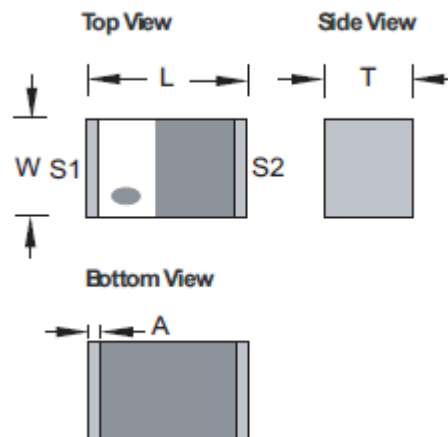
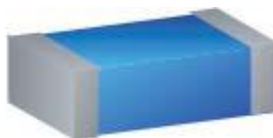
Working Frequency	2.45 GHz
Bandwidth	370 MHz(Typ.)
Return Loss	10.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.77 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	2.00 \pm 0.20
W (mm)	1.25 \pm 0.20
T (mm)	1.10 \pm 0.10
A (mm)	0.15 \pm 0.10



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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

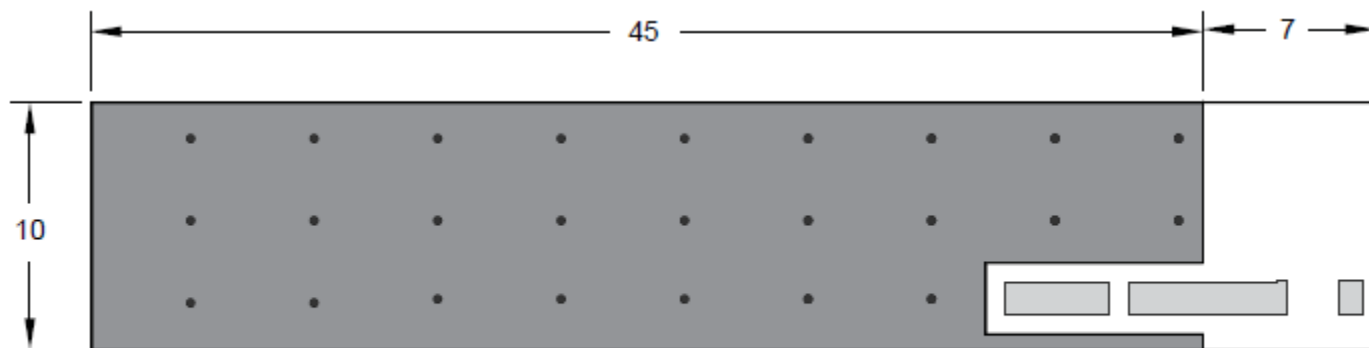
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Description: 2012 2.4GHz Chip Antenna

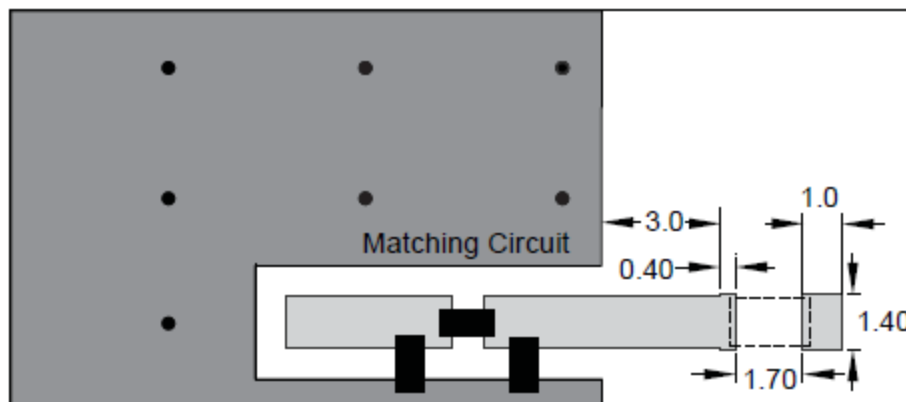
PART NUMBER: ANT2012LL00R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Unit : mm

Details of soldering Pad

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

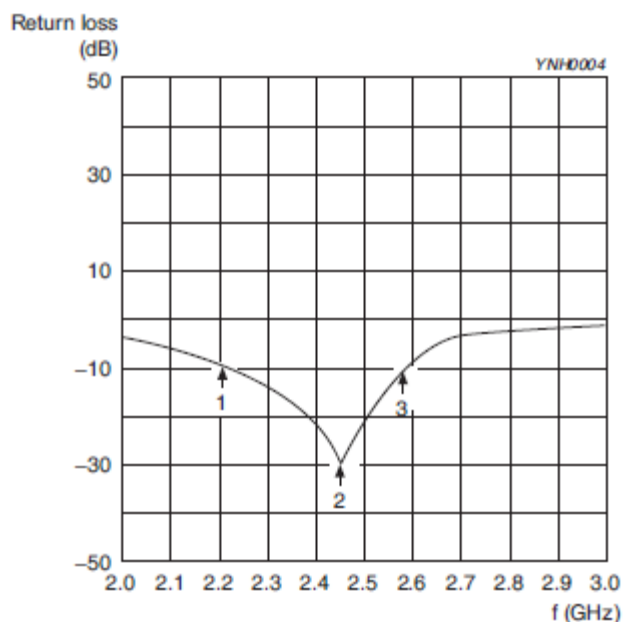
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Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

ELECTRICAL PERFORMANCES



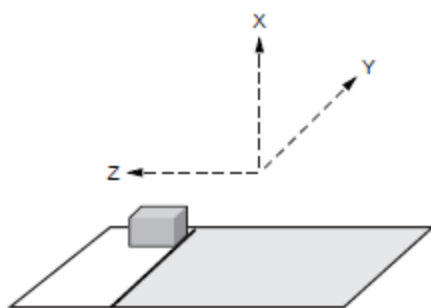
Marker data

1. 2.21GHz, -10dB

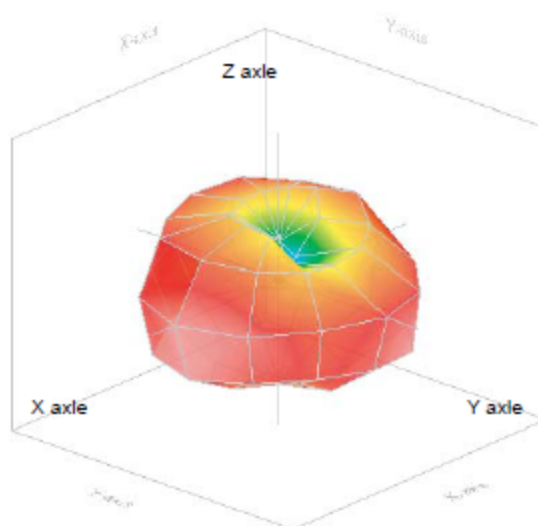
2. 2.45GHz, -28.5dB

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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Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

REVISION HISTORY

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

Mouser Electronics

Authorized Distributor

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