

Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

Features:

- Size : 5.3x2.0x1.4 mm
- Omni-directional Radiation
- Dual-band design
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- 2.4&5GHz WiFi device
- ISM band equipment

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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 & 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: 5320 2.4G&5GHz Chip Antenna
PART NUMBER: ANT5320LL04R2455A
ELECTRICAL SPECIFICATIONS

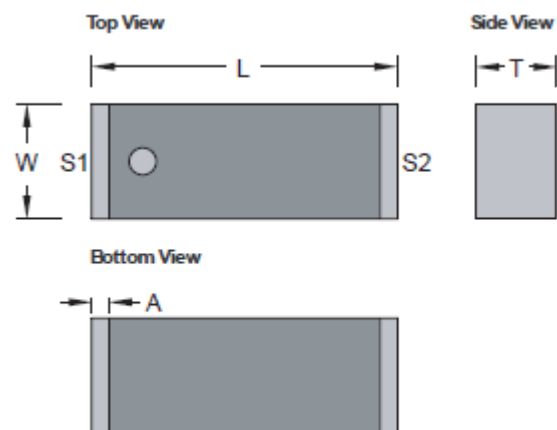
Working Frequency	2.45 G / 5.5GHz
Bandwidth	150M / 900MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.09 / 4.32 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly 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)	5.30 ± 0.20
W (mm)	2.00 ± 0.20
T (mm)	1.40 ± 0.30
A(mm)	0.40 ± 0.20



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.

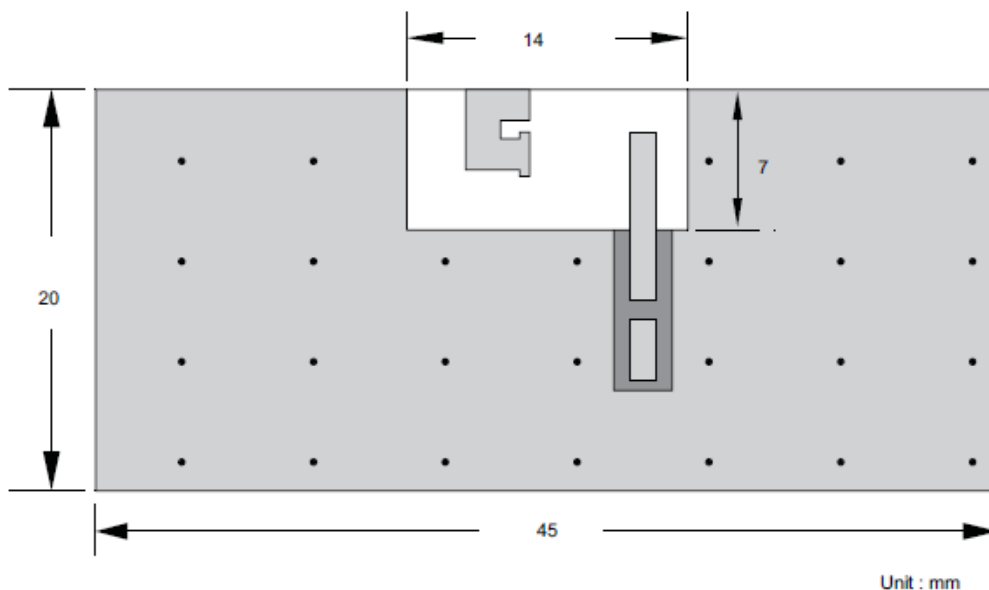
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

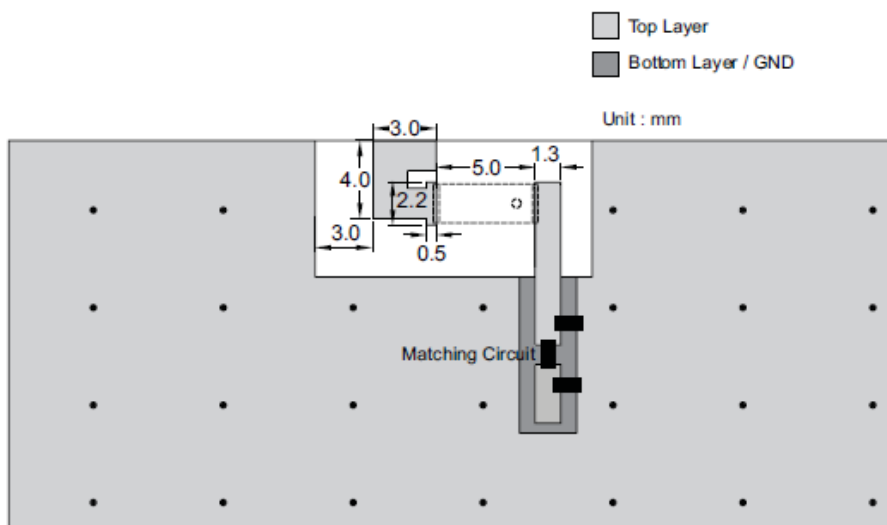
Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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

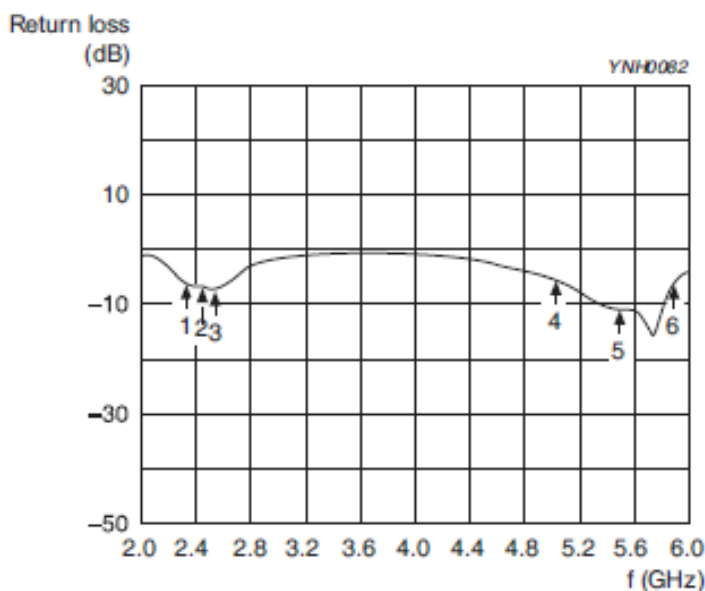
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

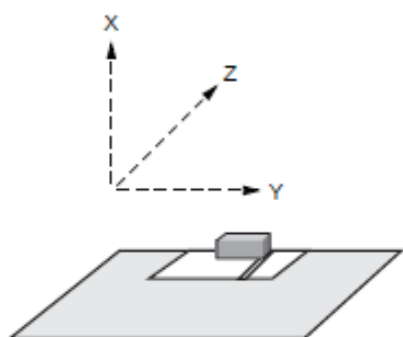
ELECTRICAL PERFORMANCES



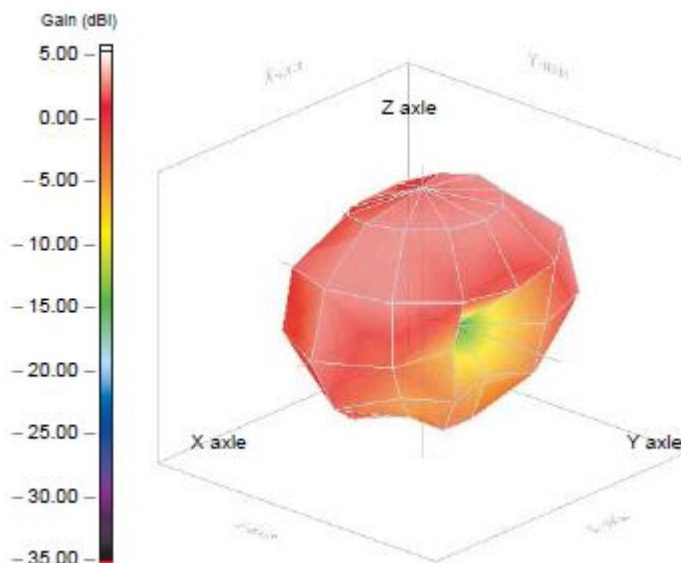
Marker data

1. 2.37GHz , -6.5dB
2. 2.45GHz , -7.6dB
3. 2.52GHz , -6.5dB
4. 5.05GHz , -6.5dB
5. 5.00GHz , -11.9dB
6. 9.5GHz , -6.5dB

Return loss



Evaluation board and XYZ direction



Radiation pattern

Max gain = 2.09 dBi, at (60, 150)
MEG (mean effective gain) = -1.18 dBi
Directivity (dB) = 3.58
Efficiency = -1.49 dB, 71.01 %

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

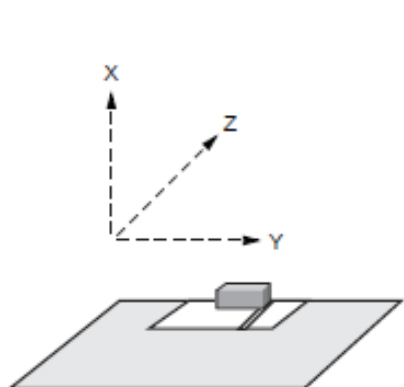
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

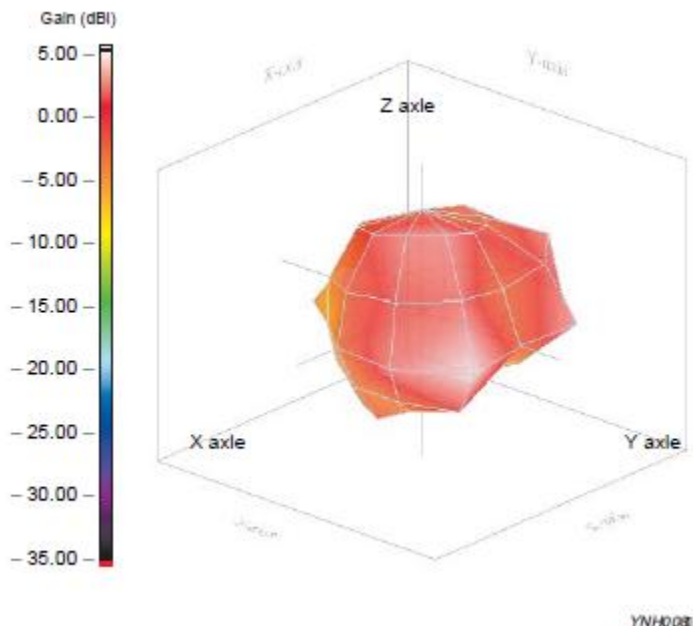
Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

ELECTRICAL PERFORMANCES



Evaluation board and XYZ direction



Radiation pattern

Frequency= 5.5 GHz
Max gain = 4.32 dBi, at (90, 60)
MEG (mean effective gain)= -2.57 dBi
Directivity (dB) = 6.36
Efficiency = -2.04 dB, 62.52 %

Description: 5320 2.4G&5GHz Chip Antenna

PART NUMBER: ANT5320LL04R2455A

REVISION HISTORY

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[ANT5320LL04R2455A](#)