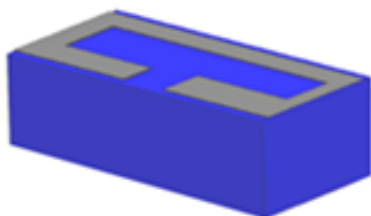


Description: 3216 2.4G/5G Chip Antenna

PART NUMBER: ANT3216LL11R2455A

Features:

- Size : 3.2x1.6x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- 2.4G/5GHz 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: 3216 2.4G/5G Chip Antenna

PART NUMBER: ANT3216LL11R2455A

ELECTRICAL SPECIFICATIONS

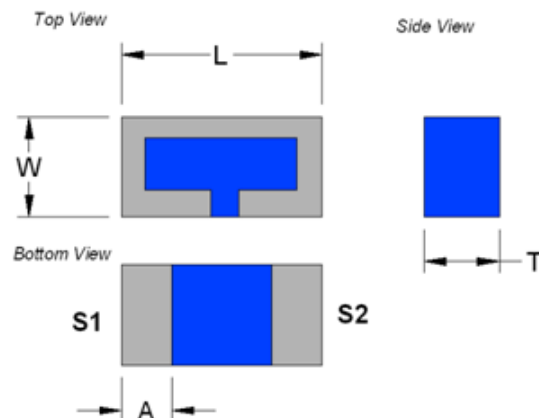
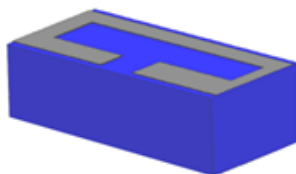
Working Frequency	2.45 / 5.5 GHz
Bandwidth	90/700 MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.45/0.64 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~85 °C
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ± 0.20
W (mm)	1.6 ± 0.20
T (mm)	1.2 ± 0.20
A (mm)	0.8 ± 0.20



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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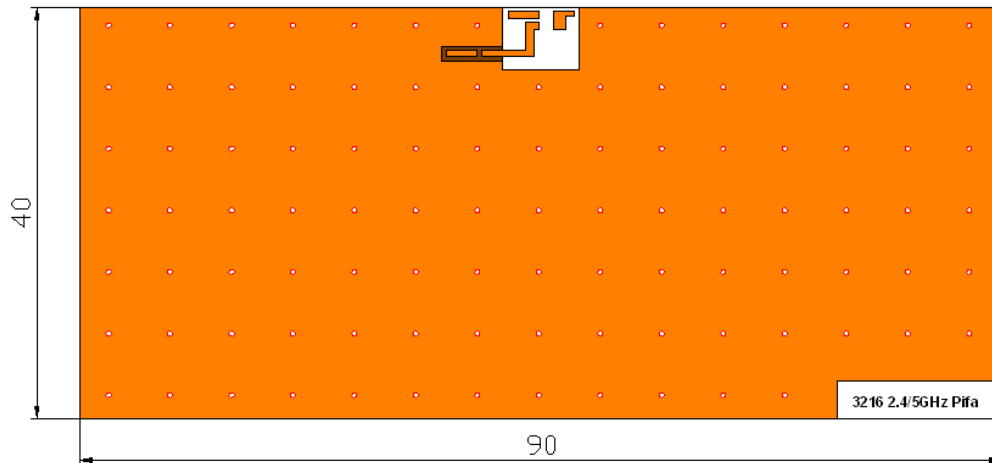
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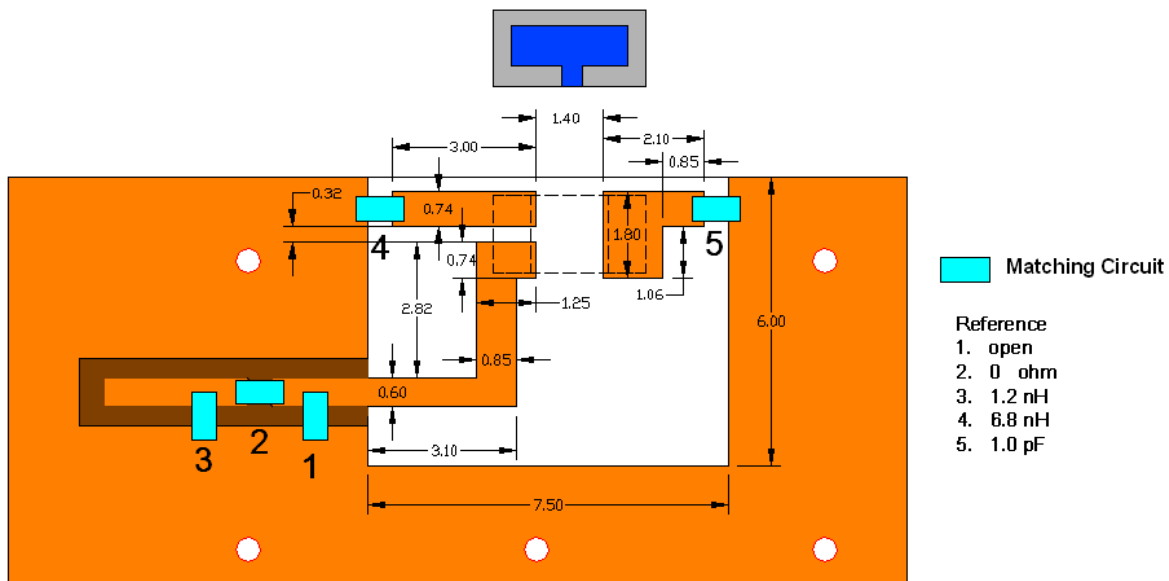
Description: 3216 2.4G/5G Chip Antenna

PART NUMBER: ANT3216LL11R2455A

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.

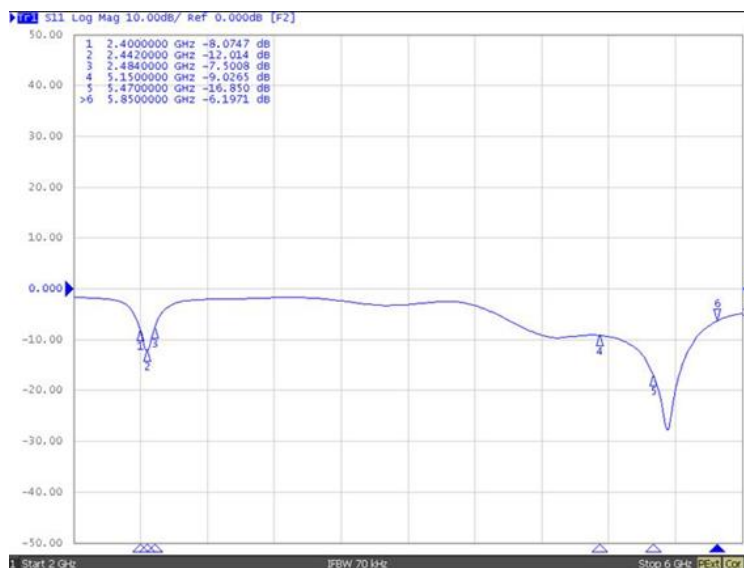
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Description: 3216 2.4G/5G Chip Antenna

PART NUMBER: ANT3216LL11R2455A

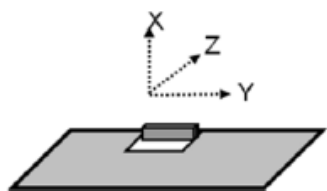
ELECTRICAL PERFORMANCES



Return loss

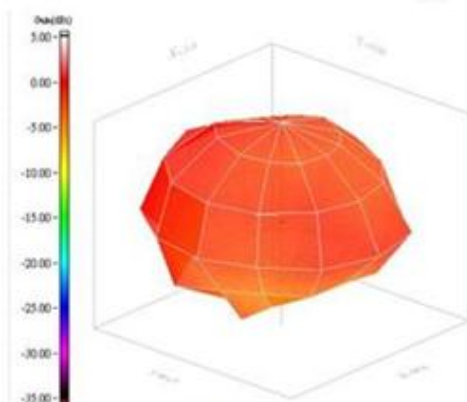
Marker data

1. 2.40GHz, -8.0747dB
2. 2.44GHz, -12.014dB
3. 2.48GHz, -7.5008dB
4. 5.15GHz, -9.0265dB
5. 5.47GHz, -16.850dB
6. 5.85GHz, -6.1971dB



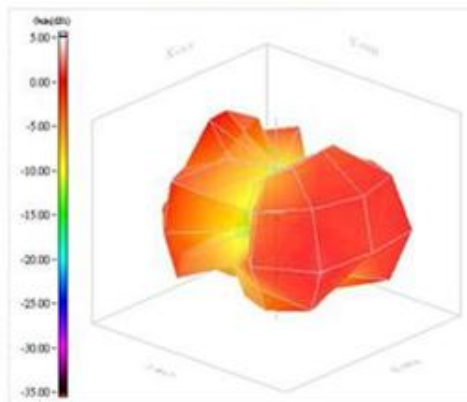
Evaluation board and XYZ direction

2442MHz



Max gain = 0.47 dBi
Avg gain = -2.49 dB
Efficiency = 56%

5470MHz



Max gain = 0.64 dBi
Avg gain = -3.26 dB
Efficiency = 47%

Radiation pattern

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Description: 3216 2.4G/5G Chip Antenna

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 27, 2020	- New issue

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