

Description: 3216 2.4-2.5GHz Chip Antenna

PART NUMBER: ANT3216A063R2400A

Features:

- Size : 3.05x1.55x0.55 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- 2.4GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency	2.45 GHz
Bandwidth	200 MHz(Typ.)
Return Loss	6.5 dB Max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.69 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

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

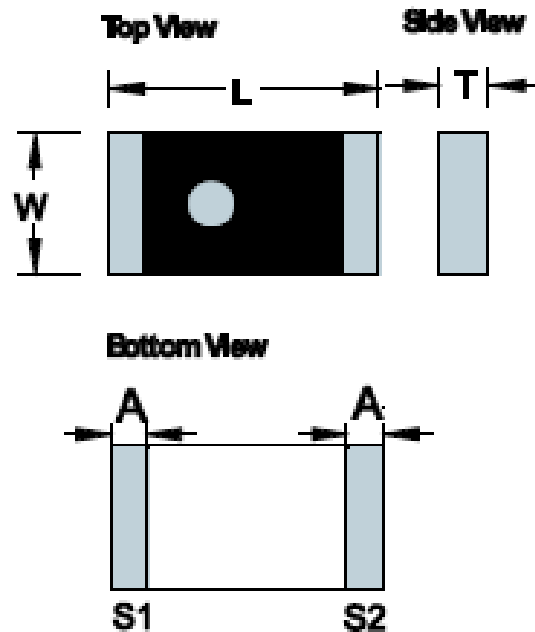
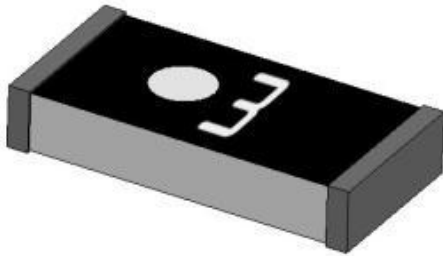
 Europe Headquarters
 Pulse GmbH & Co, KG
 Zeppelinstrasse 15
 Herrenberg, Germany
 Tel: 49 7032 7806 0

 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

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MECHANICAL DRAWING



	Dimension
L (mm)	3.05 ± 0.10
W (mm)	1.55 ± 0.10
T (mm)	0.55 ± 0.10
A (mm)	0.40 ± 0.10

Terminal name	Function
S1	Feeding Point
S2	GND

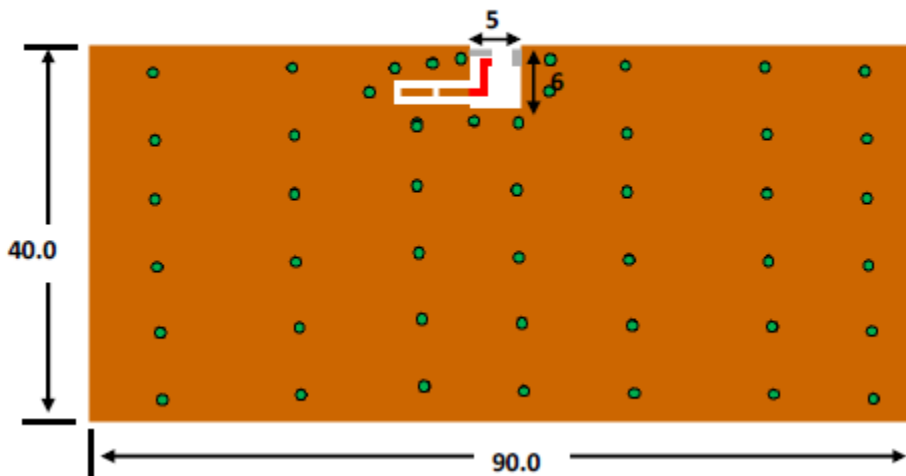
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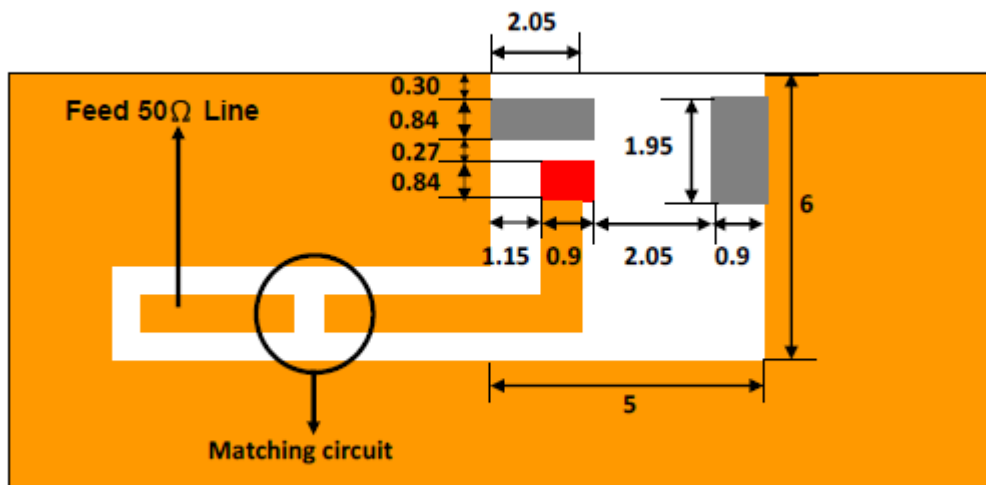
REFERENCE DESIGN OF EVALUATION BOARD

■ Clearance Definition:

□ (Size = 6.0 * 5.0 mm)



■ Soldering Pads Dimension and Footprint :



■ Footprint for Feeding

■ Footprint (connect to ground)

Unit:mm

Outlook and dimension of evaluation board

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

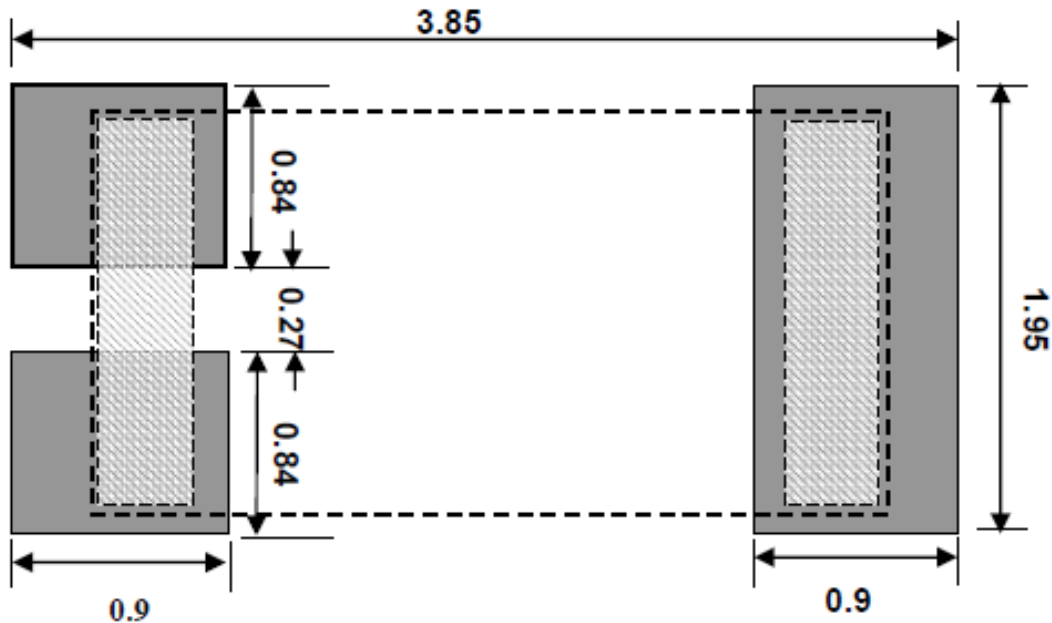
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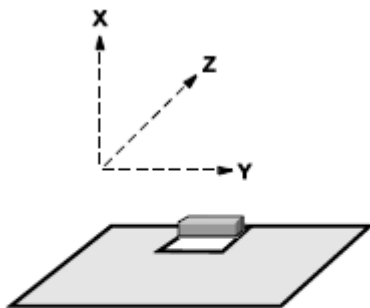
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REFERENCE DESIGN OF EVALUATION BOARD



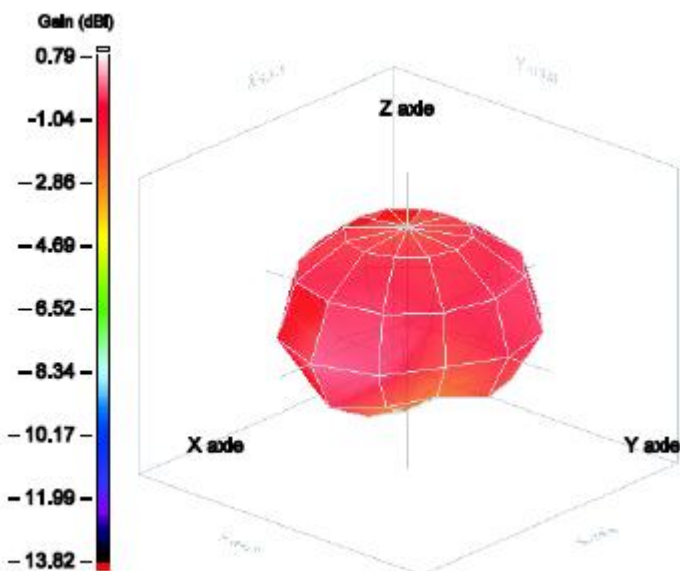
Tol : ± 0.1
Unit : mm

Dimension of footprint



Evaluation board and XYZ direction

Radiation pattern



Frequency= 2.45 GHz
Max gain = 1.69 dBi
MEG (mean effective gain)= -1.00 dBi
Directivity (dB) = 2.18
Efficiency = - 0.49dB,
89.33%

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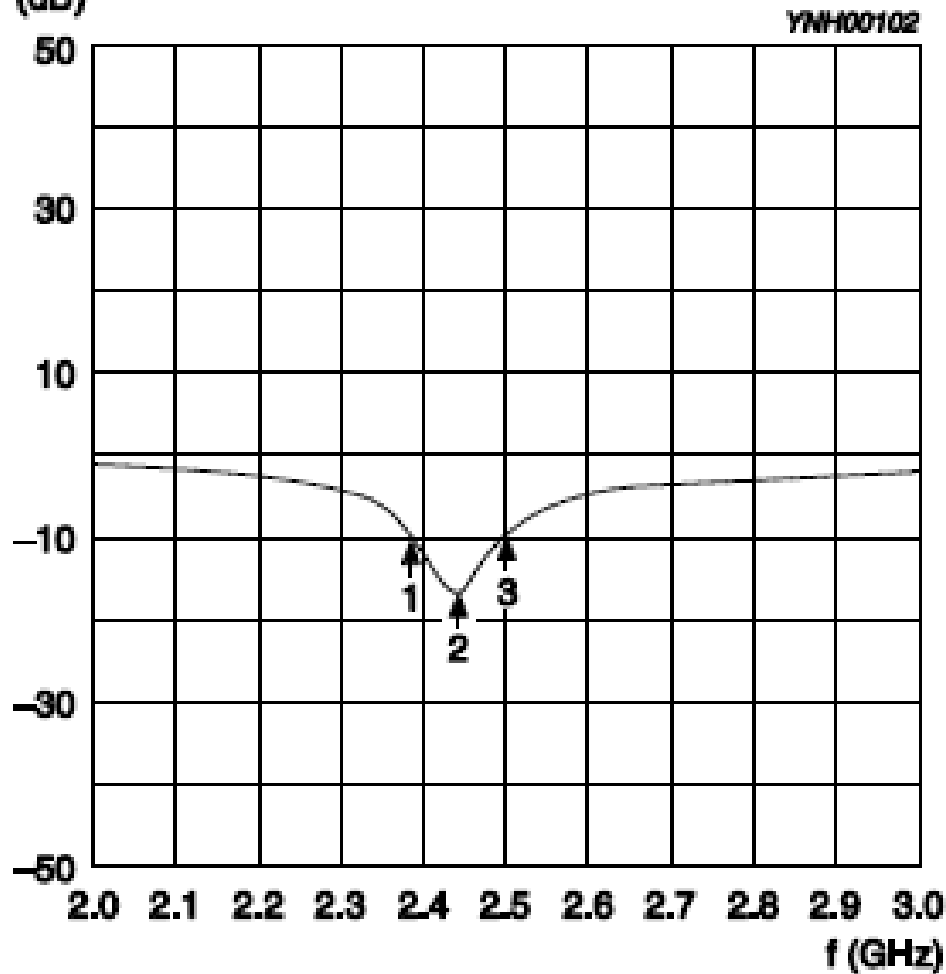
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ELECTRICAL PERFORMANCES

**Return loss
(dB)**



Maker data

1. 2.39GHz, -10.00dB
2. 2.45GHz, -16.48dB
3. 2.50GHz, -10.00dB

Return loss

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 20, 2020	- New issue