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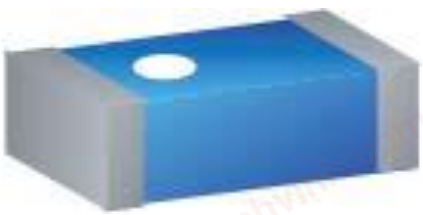
Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL00R2400A



Features:

- Size : 3.2x1.6x1.2 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

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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 & 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

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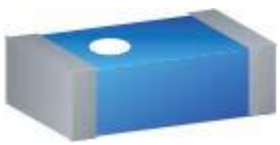
ELECTRICAL SPECIFICATIONS

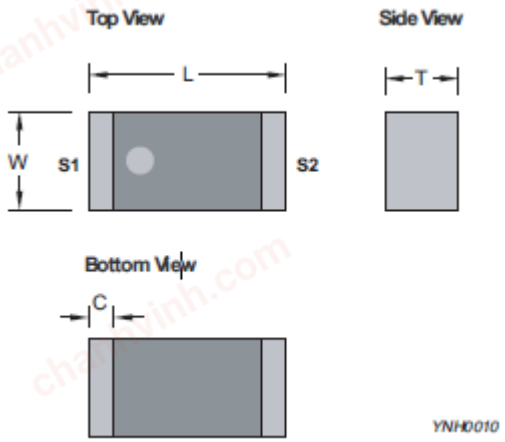
Working Frequency	2.4-2.5 GHz
Bandwidth	160 MHz(Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	5.05 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ±0.15
W (mm)	1.6 ±0.15
T (mm)	1.2 ±0.15
C (mm)	0.4 ±0.20





Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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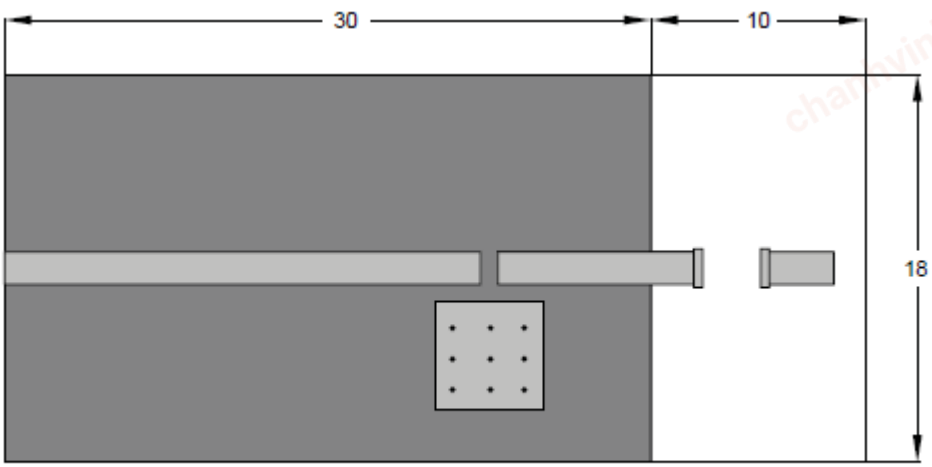
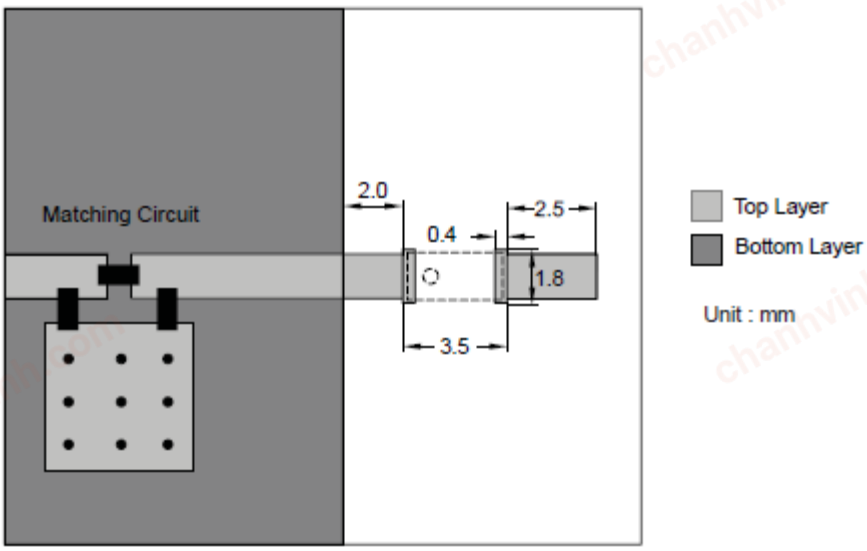
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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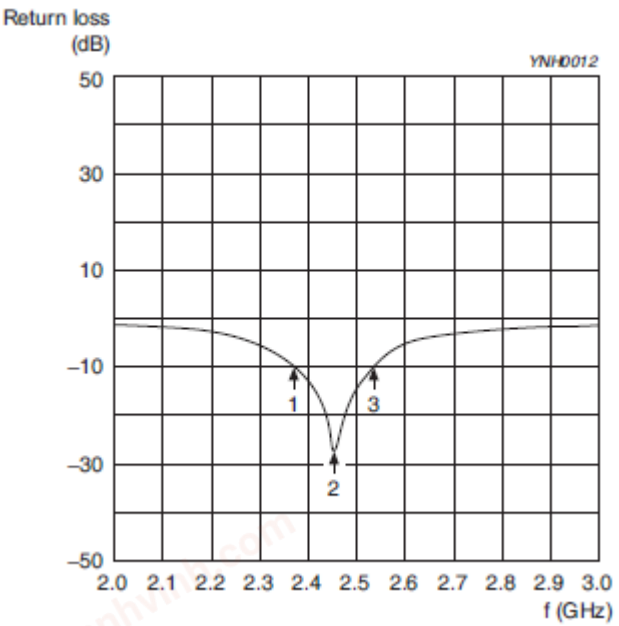
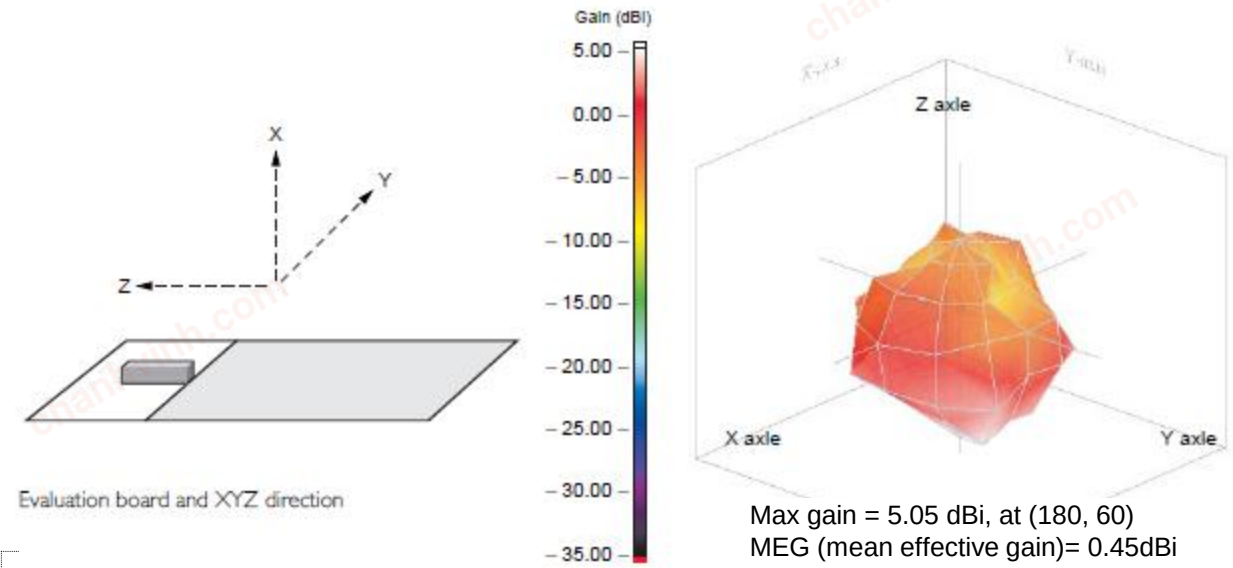
ELECTRICAL PERFORMANCES



Marker data
1. 2.37GHz, -10dB
2. 2.45GHz, -27.3dB
3. 2.53GHz, -10dB

Return loss



Max gain = 5.05 dBi, at (180, 60)
MEG (mean effective gain)= 0.45dBi
Directivity (dB) = 7.15
Efficiency = -1.50dB, 70.74%

Radiation pattern

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REVISION HISTORY

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

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RoHS COMPLIANT