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Pulse A YAGEO Company | LARSEN Antennas

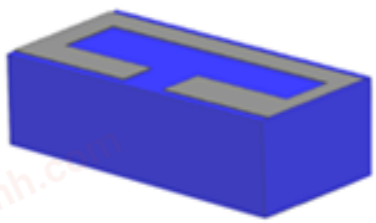
TECHNICAL DATA SHEET

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

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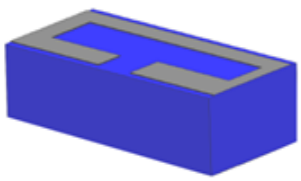
ELECTRICAL SPECIFICATIONS

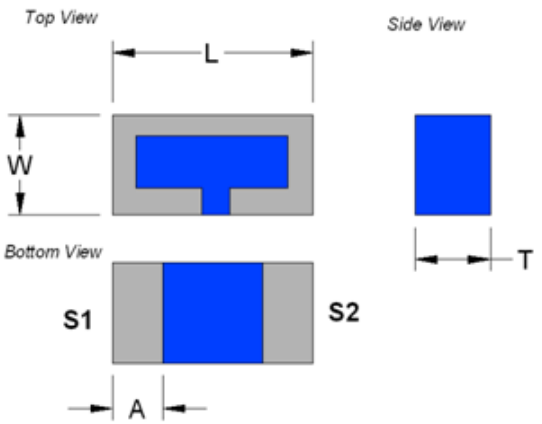
Working Frequency	2.45 / 5.5 GHz
Bandwidth	90/700 MHz(Typ.)
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.45/0.64 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~85 ℃
Maximum Power	1 W
Termination	Ag (Environmentally-Friendly Leadless)
Resistance to Soldering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

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ±0.20
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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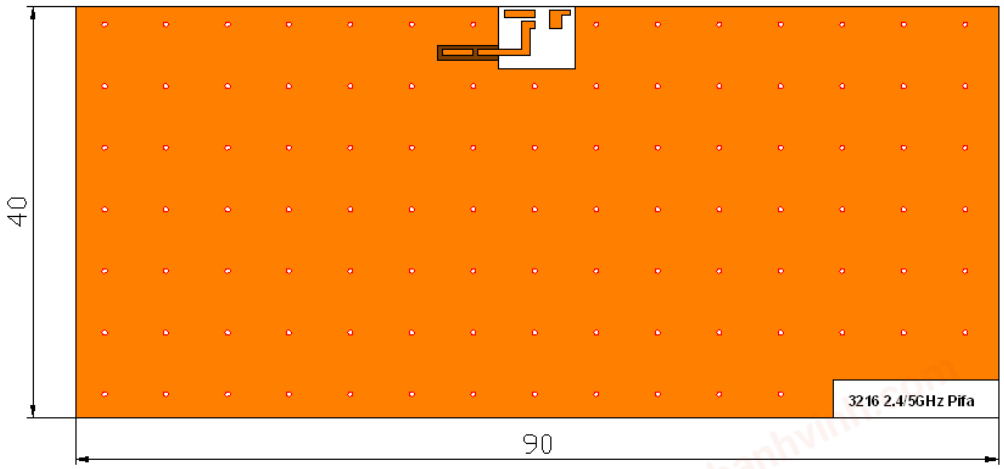
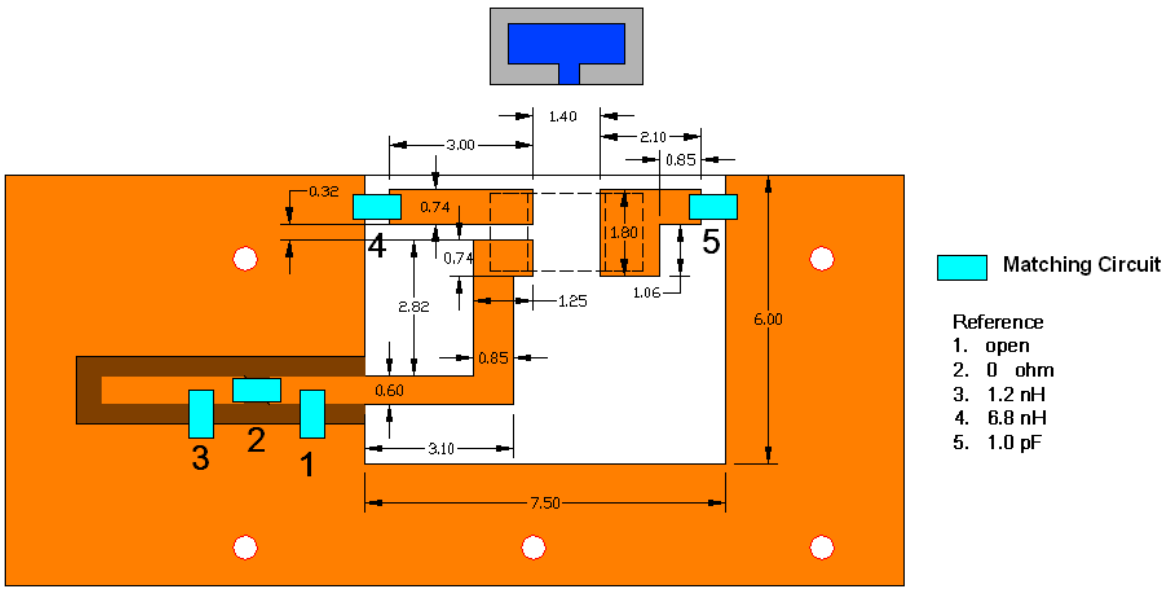
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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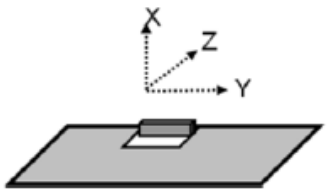
ELECTRICAL PERFORMANCES



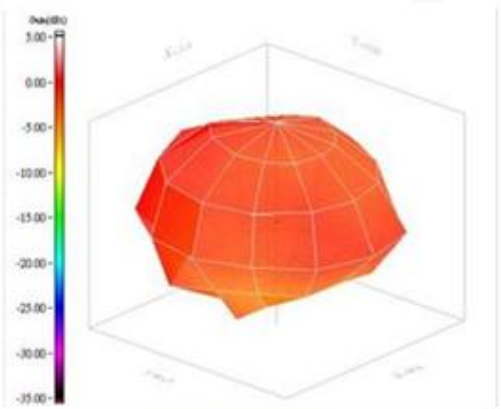
Marker data
1. 2.40GHz, -8.0747dB
2. 2.44GHz, -12.014dB
3. 2.48GHz, -7.5008dB
4. 5.15GHz, -9.0265dB
5. 5.47GHz, -16.850dB
6. 5.85GHz, -6.1971dB

Return loss



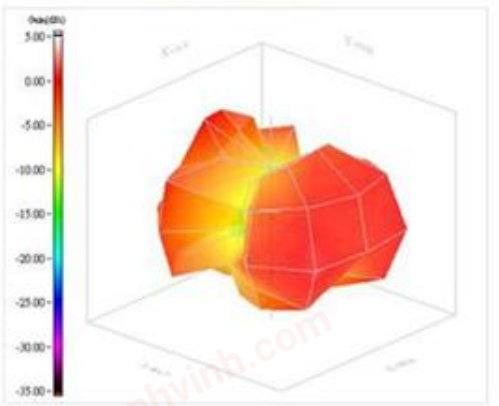
Evaluation board and XYZ direction

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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REVISION HISTORY

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

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RoHS COMPLIANT