TECHNICAL DATA SHEET

Description: 3216 5GHz Chip Antenna

PART NUMBER: ANT3216LL05R5000A

Features:

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

Applications:

- ISM band equipment

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
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Tel: 1-360-944-7551

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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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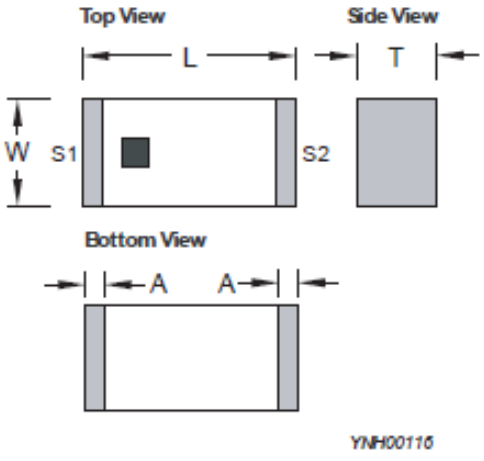
ELECTRICAL SPECIFICATIONS

Working Frequency	5.5GHz
Bandwidth	＞1000MHz(Typ.)
Return Loss	10.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	5.71 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)	3.20 ±0.15
W (mm)	1.60 ±0.15
T (mm)	1.20 ±0.10
C(mm)	0.30 ±0.20



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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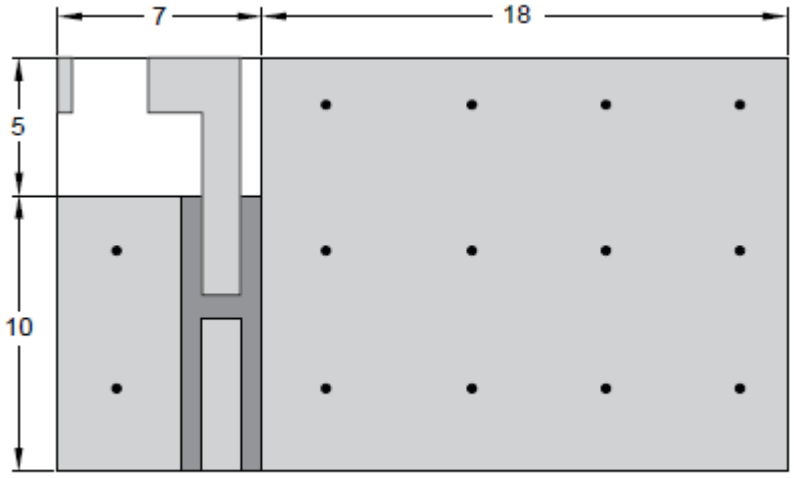
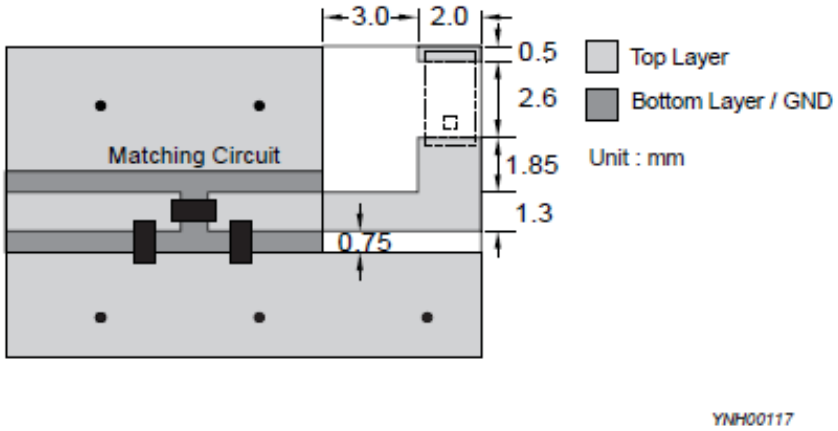
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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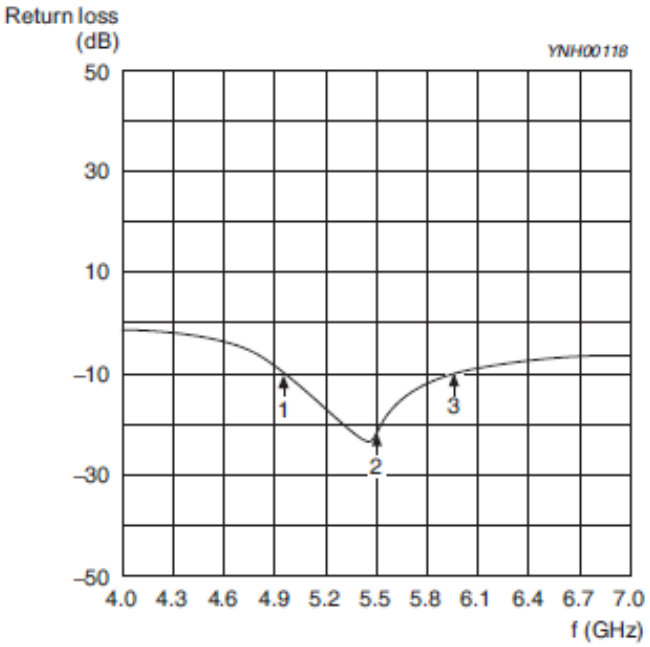
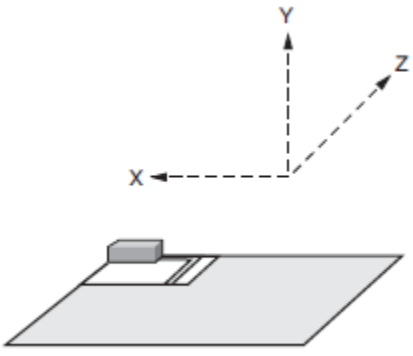
ELECTRICAL PERFORMANCES

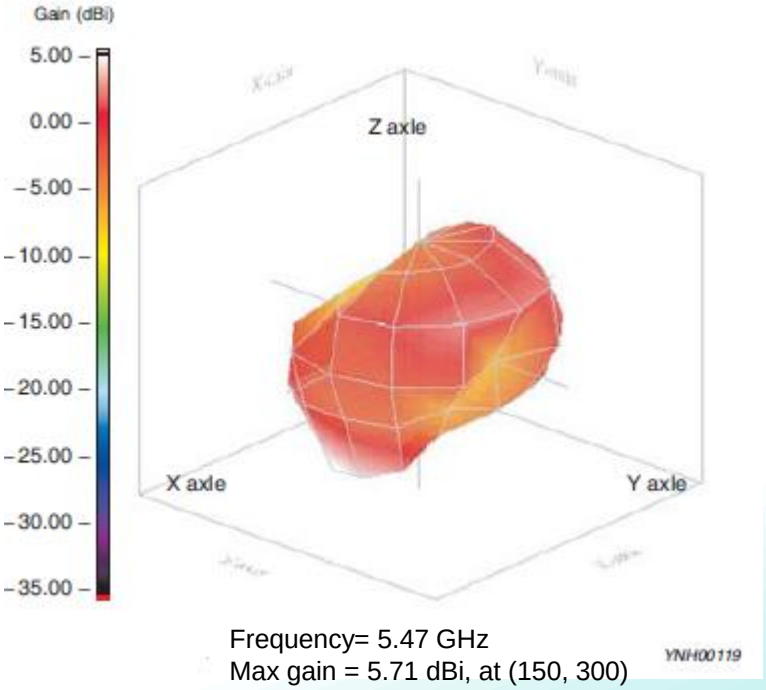


Marker data
1. 4.99GHz, -10dB
2. 5.5GHz, -22.3dB
3. 6.02GHz, -10dB

Return loss



Evaluation board and XYZ direction



Radiation pattern

Frequency= 5.47 GHz
Max gain = 5.71 dBi, at (150, 300)
MEG (mean effective gain)= -1.39dBi
Directivity (dB) = 6.83
Efficiency = -1.12dB, 77.33%

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REVISION HISTORY

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