

Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL11R2400A

Features:

Size: 3.2x1.6x1.2 mm

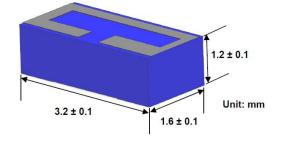
• Working Frequency: 2.4~2.5GHz

· Omni-directional Radiation

Tape & reel automatic mounting

Reflow process compatible

RoHS compliant



Applications:

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

In the effort to improve our products, we reserve the right to make changes judged to be necessary. $\texttt{CONFIDENTIAL} \ \texttt{AND} \ \texttt{PROPRIETARY} \ \texttt{INFORMATION}$

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ELECTRICAL SPECIFICATIONS

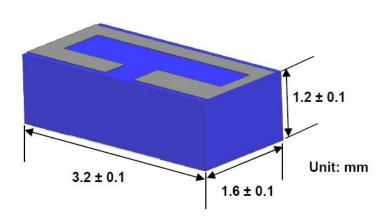
Working Frequency 2.45 GHz **Bandwidth** 230 MHz(Typ.) **Return Loss** 6.5 dB Min **Polarization** Linear **Azimuth Beamwidth** Omni-directional **Peak Gain** 3.68 dBi(Typ.) **Impedance** 50 Ω **Operating Temperature** - 40~105 °C **Maximum Power** 1 W **Termination** Ag (Environmentally-Friendly Leadless) **Resistance to Soldering Heats** 260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

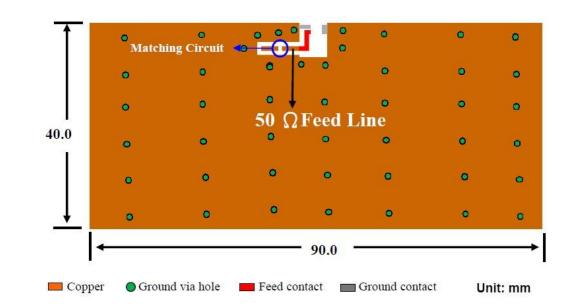
	Dimension	
L (mm)	3.2 ±0.10	
W (mm)	1.6 ±0.10	
T (mm)	1.2 ±0.10	



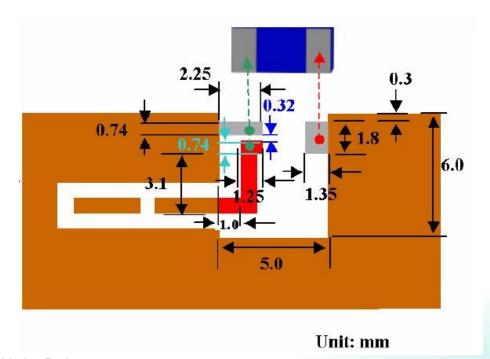
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



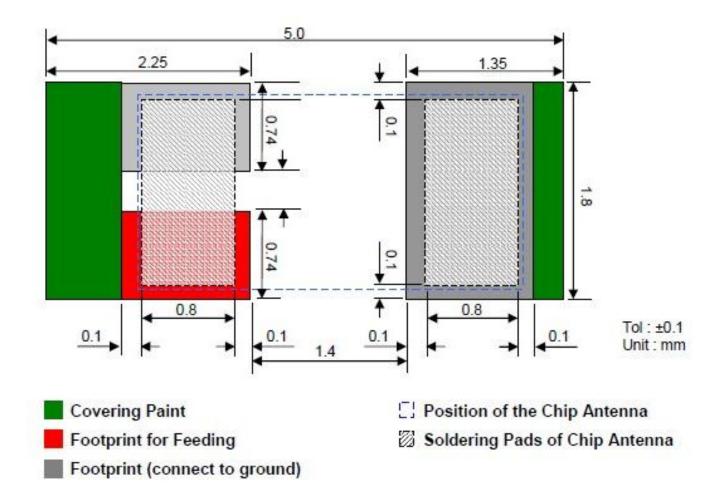
Details of soldering Pad



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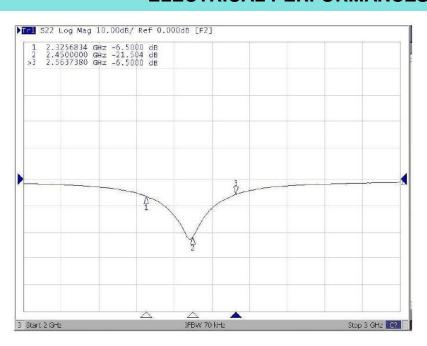
Soldering Pads Dimension and Footprint



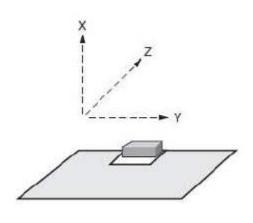
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ELECTRICAL PERFORMANCES







5.00--5.00--10.00--25.00--25.00--30.00--35.00-Frequency= 2.45 GHz

Frequency= 2.45 GHz
Max gain = 3.68 dBi, at (120,180)
MEG (mean effective gain)= -0.47 dBi
Directivity (dB) = 4.29
Efficiency = -0.61 dB, 86.89 %

Evaluation board and XYZ direction
Radiation pattern

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REVISION HISTORY

RevisionDateDescriptionVersion 1Oct. 12, 2020- New issue