

Description: 2012 2.4-2.5GHz Chip Antenna

PART NUMBER: ANT2012LL13R2400A

Features:

- Size: 2.00x1.25x1.00 mm
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

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

ELECTRICAL SPECIFICATIONS

Working Frequency Bandwidth Return Loss Polarization Azimuth Beamwidth

Peak Gain Impedance

Operating Temperature

Maximum Power

Termination

Resistance to Soldering Heats

1. The specification is defined on Pulse evaluation board

2.45 GHz 85 MHz(Typ.) 6dBi min. Linear Omni-directional 2.72 dBi (Typ.) 50Ω - 40~105 °C

1 W

Ag (Environmentally-Friendly Leadless)

260°C, 10sec.

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

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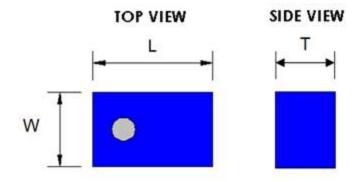


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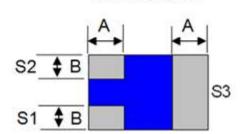
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MECHANICAL DRAWING

	Dimension
L (mm)	2.00 ±0.20
W (mm)	1.25 ±0.20
T (mm)	1.00 ± 0.20
A (mm)	0.60 ± 0.10
B (mm)	0.40 ± 0.10



Function Terminal name Feeding Point S1 S2 **GND** S3 **GND**



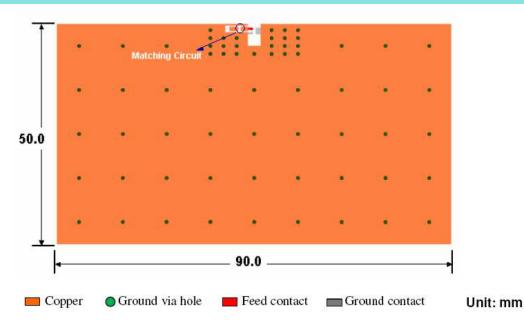
BOTTOM VIEW



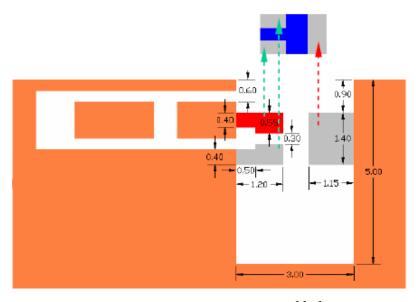
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Unit: mm

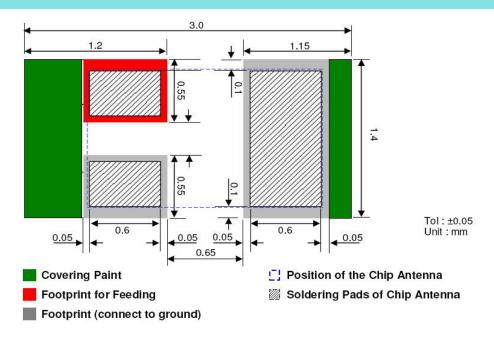
Dimension of footprint



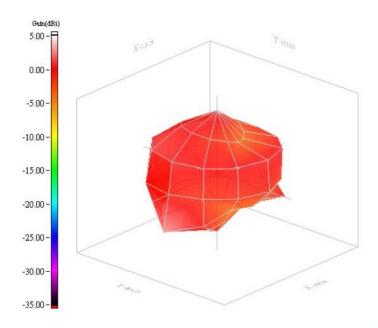
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Details of soldering pad



Frequency= 2.45 GHz Max gain = 2.72dBi, at (120,0) MEG (mean effective gain)= -0.69 dBi Directivity (dB) = 3.88

Efficiency = -1.16dB, 76.56%

Radiation pattern

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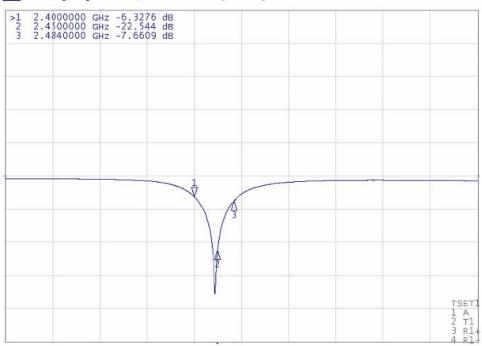


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ELECTRICAL PERFORMANCES





Maker data

1. 2.40GHz, -6.3276dB

2. 2.45GHz, -22.544dB

3. 2.48GHz, -7.6609dB

Return loss



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REVISION HISTORY		
Revision	Date	Description
Version 1	Nov. 19, 2020	- New issue
Version 2	April. 6, 2021	- Modified MECHANICAL DRAWING: S1 and S2 label