

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

Working Frequency Bandwidth Return Loss Polarization

Azimuth Beamwidth

Peak Gain **Impedance**

Operating Temperature

Maximum Power

Termination

Resistance to Soldering Heats

ELECTRICAL SPECIFICATIONS

2.45 GHz 85 MHz(Typ.) 6dBi min. Linear Omni-directional 2.72 dBi (Typ.) 50 Ω

- 40~105 °C

1 W

Ag (Environmentally-Friendly Leadless)

260°C, 10sec.

1. The specification is defined on Pulse evaluation board

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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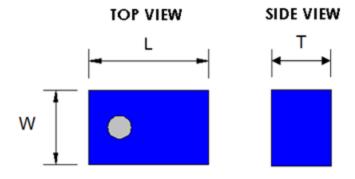


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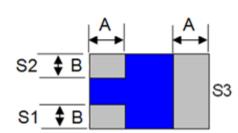
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MECHANICAL DRAWING

	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



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



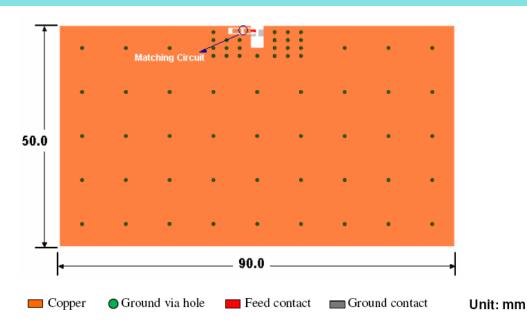
BOTTOM VIEW



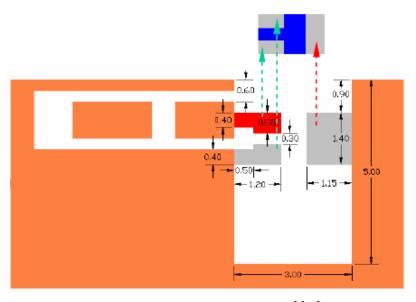
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



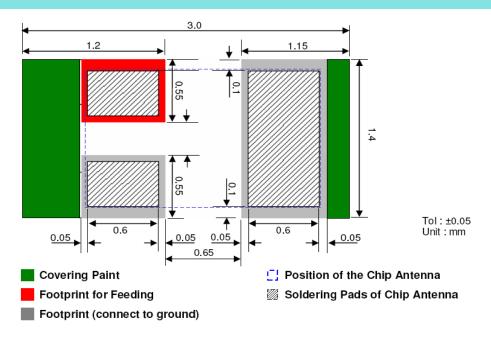
Unit: mm

Dimension of footprint

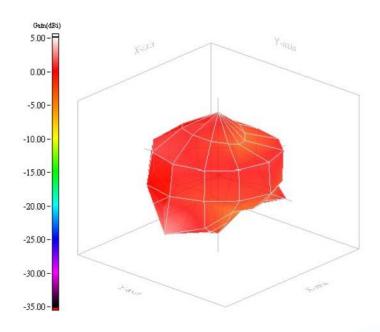
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Details of soldering pad



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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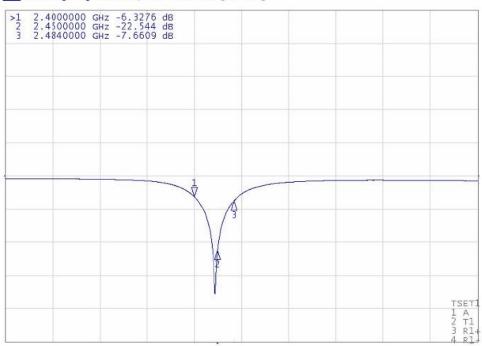


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ELECTRICAL PERFORMANCES





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

Mouser Electronics

Authorized Distributor

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Pulse:

ANT2012LL13R2400A