

Description: 8010 2.4GHz Chip Antenna

PART NUMBER: ANT8010LL04R2400A

Features:

- Size : 8.0x1.0x1.0 mm
- 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.

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ELECTRICAL SPECIFICATIONS

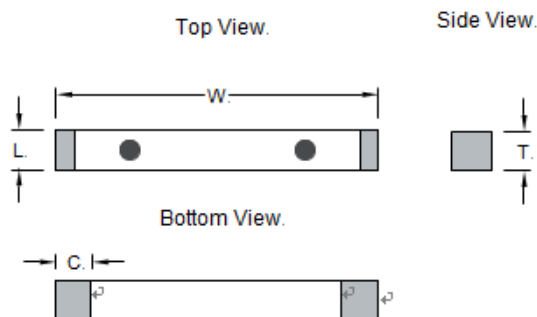
Working Frequency	2.4 ~ 2.5 GHz
Bandwidth	170 MHz(Typ.)
Return Loss	10.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	5.46 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	1.00 \pm 0.10
W (mm)	8.00 \pm 0.10
T (mm)	1.00 \pm 0.10
C (mm)	0.90 \pm 0.15



Terminal name	Function
S1	Feeding / Soldering Pad
S2	Soldering / Feeding Pad

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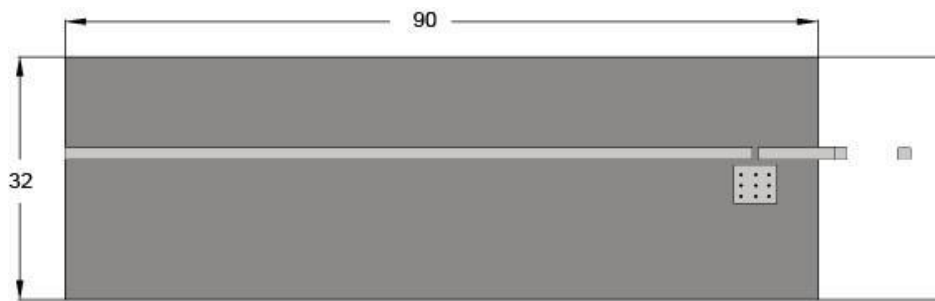
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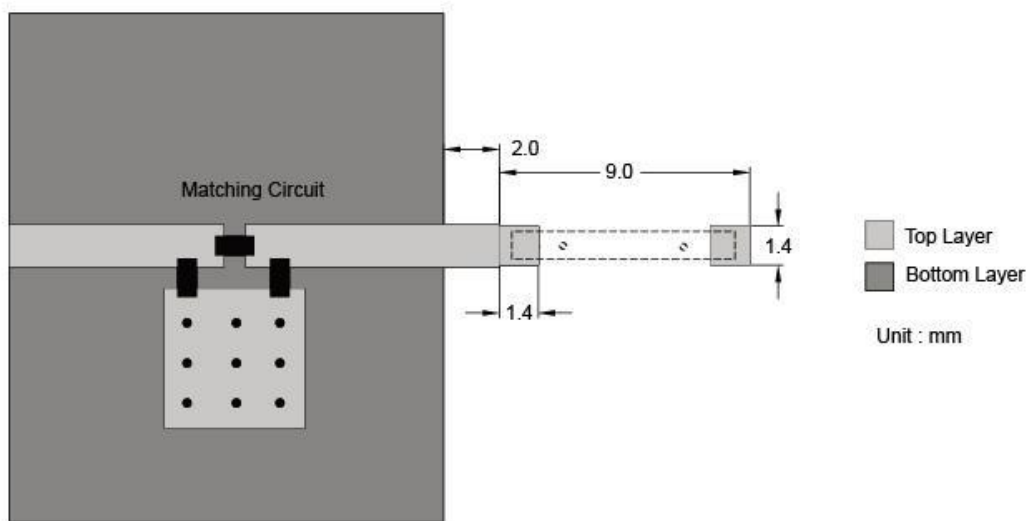
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm



YNH0007

Outlook and dimension of evaluation board

Footprint

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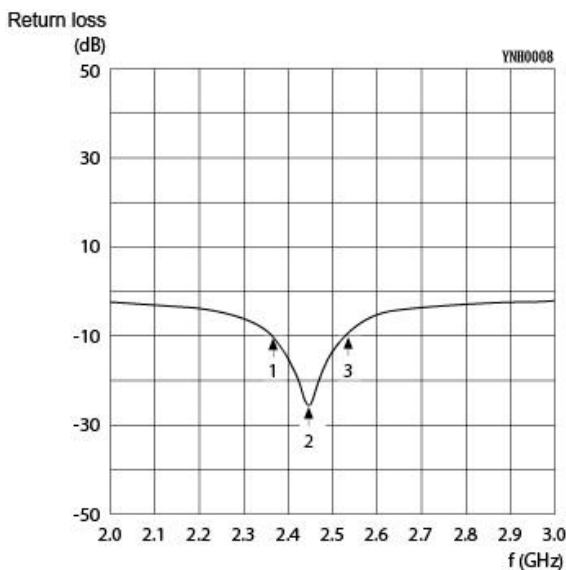
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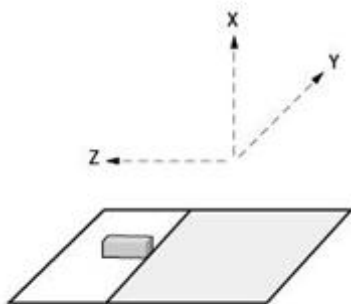
ELECTRICAL PERFORMANCES



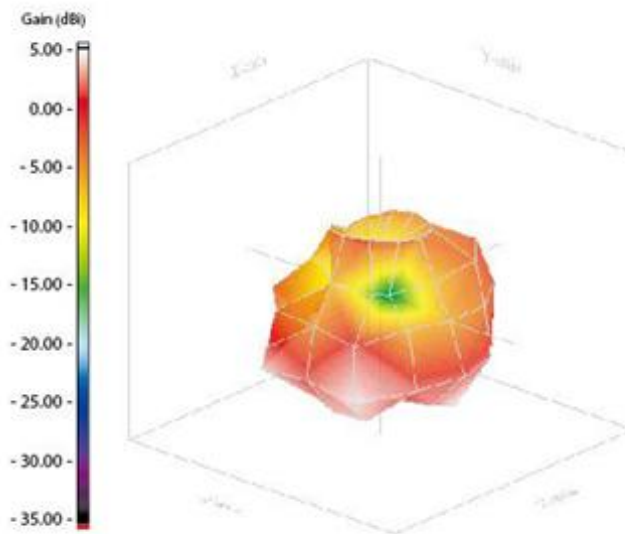
Marker data

1. 2.37GHz, -10dB
2. 2.45GHz, -24.9dB
3. 2.54GHz, -10dB

Return loss



Evaluation board and XYZ direction
Radiation pattern



Max gain = 5.46 dBi, at (150,150)
MEG (mean effective gain) = -1.46 dBi
Directivity (dB) = 6.78
Efficiency = -1.32 dB, 73.73 %

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 12, 2020	- New issue

Mouser Electronics

Authorized Distributor

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Pulse:

[ANT8010LL04R2400A](#)