

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

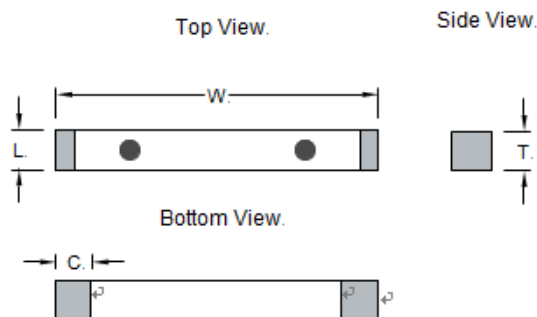
| | |
|--------------------------------------|---|
| Working Frequency | 2.4 ~ 2.5 GHz |
| Bandwidth | 170 MHz(Typ.) |
| Return Loss | 10.0 dB Min |
| Polarization | Linear |
| Azimuth Beamwidth | Omni-directional |
| Peak Gain | 5.46 dBi(Typ.) |
| Impedance | 50 Ω |
| Operating Temperature | - 40~105 °C |
| Maximum Power | 1 W |
| Termination | Ni / Sn (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) | 1.00 ±0.10 |
| W (mm) | 8.00 ±0.10 |
| T (mm) | 1.00 ±0.10 |
| C (mm) | 0.90 ±0.15 |



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

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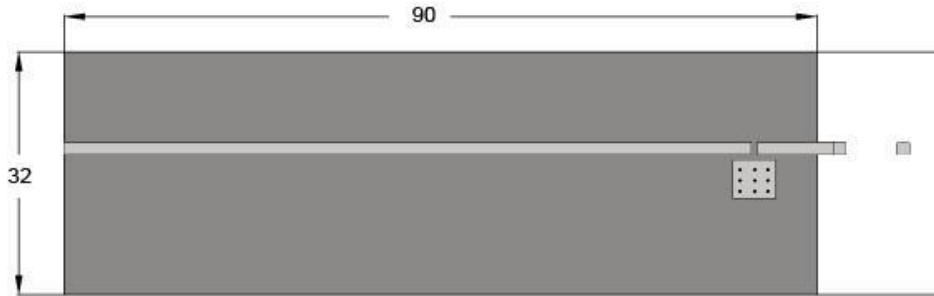
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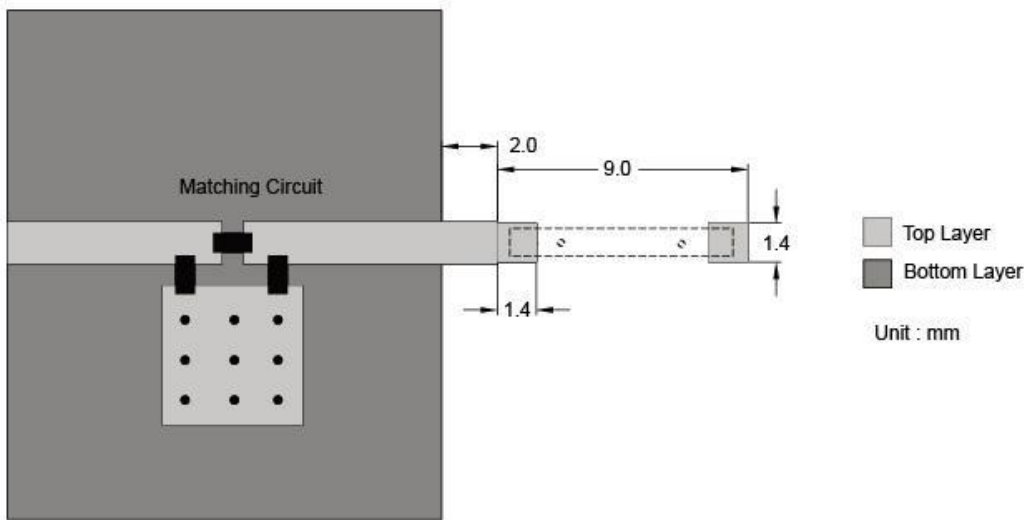
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm



Top Layer
Bottom Layer

Unit : mm

YNB0007

Outlook and dimension of evaluation board

Footprint

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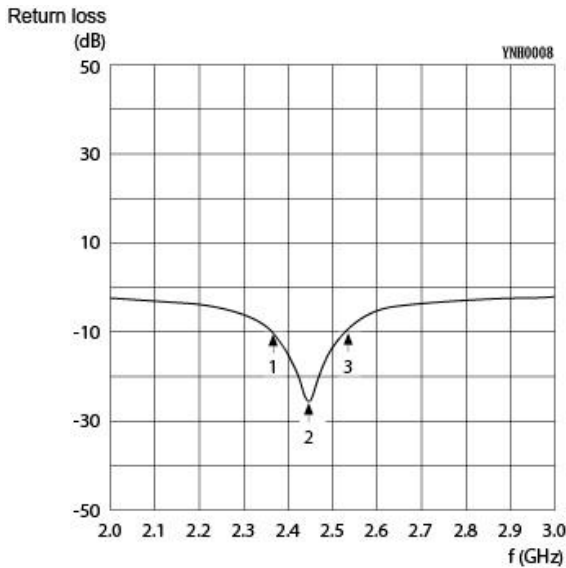
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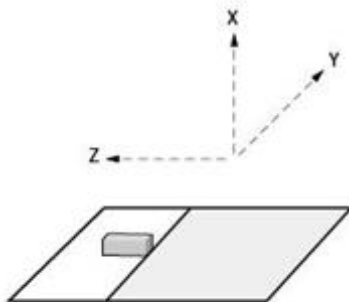
PART NUMBER: ANT8010LL04R2400A

ELECTRICAL PERFORMANCES

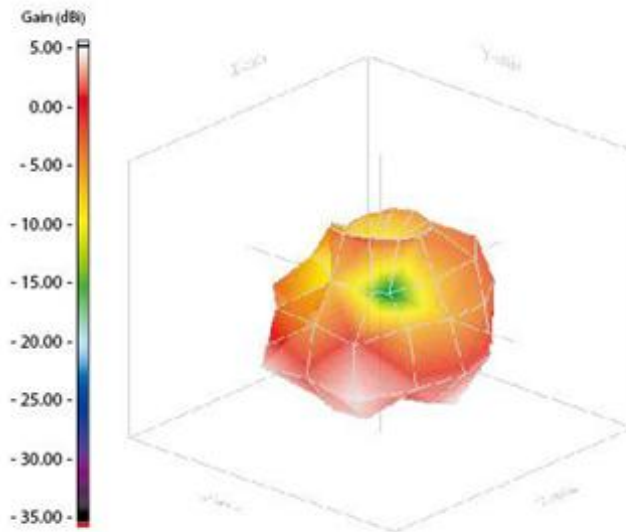


- Marker data
- 1. 2.37GHz, -10dB
 - 2. 2.45GHz, -24.9dB
 - 3. 2.54GHz, -10dB

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 |

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