

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. CONFIDENTIAL AND PROPRIETARY INFORMATION

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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 Ni / Sn (Environmentally-Friendly Leadless) **Termination** 260°C , 10sec. Resistance to Soldering Heats

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension	_	-
L (mm)	1.00 ±0.10	Top View.	Side View.
W (mm)	8.00 ± 0.10		
T (mm)	1.00 ±0.10	w	-
C (mm)	0.90 ±0.15		• •
		Bottom View	N.
		P	€ 42

Terminal nameFunctionS1Feeding / Soldering PadS2Soldering / Feeding Pad

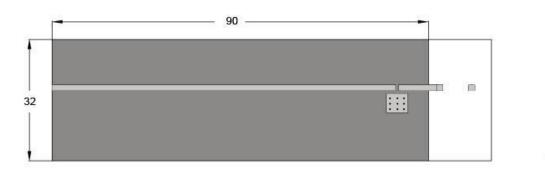
YNH0006



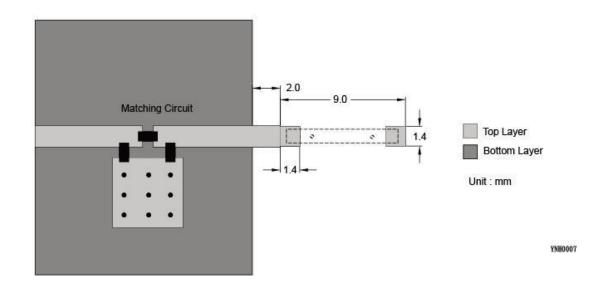
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REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm



Outlook and dimension of evaluation board

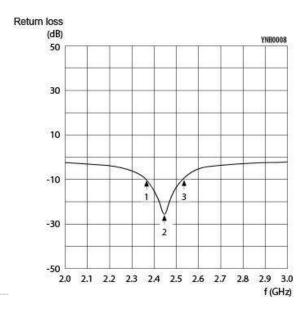
Footprint



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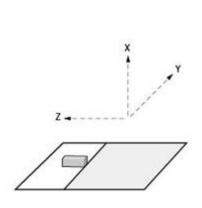
ELECTRICAL PERFORMANCES

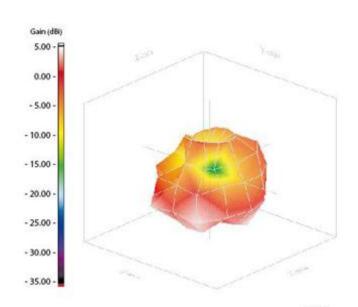


Marker data

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

Return loss





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 %

Evaluation board and XYZ direction Radiation pattern

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