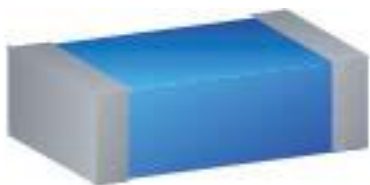


Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

Features:

- Size : 2.0x1.2x1.1 mm
- Working Frequency : 2.4~2.5GHz
- 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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Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

ELECTRICAL SPECIFICATIONS

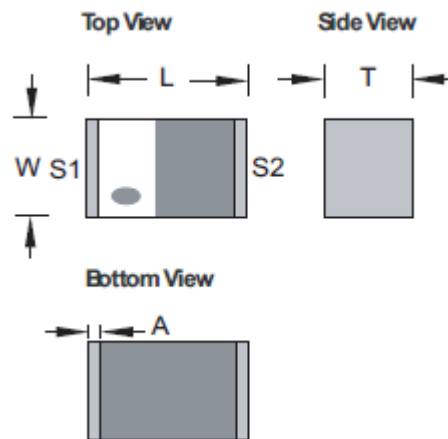
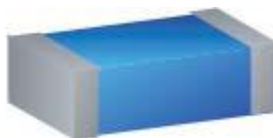
Working Frequency	2.45 GHz
Bandwidth	370 MHz(Typ.)
Return Loss	10.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.77 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	2.00 $\pm$ 0.20
W (mm)	1.25 $\pm$ 0.20
T (mm)	1.10 $\pm$ 0.10
A (mm)	0.15 $\pm$ 0.10



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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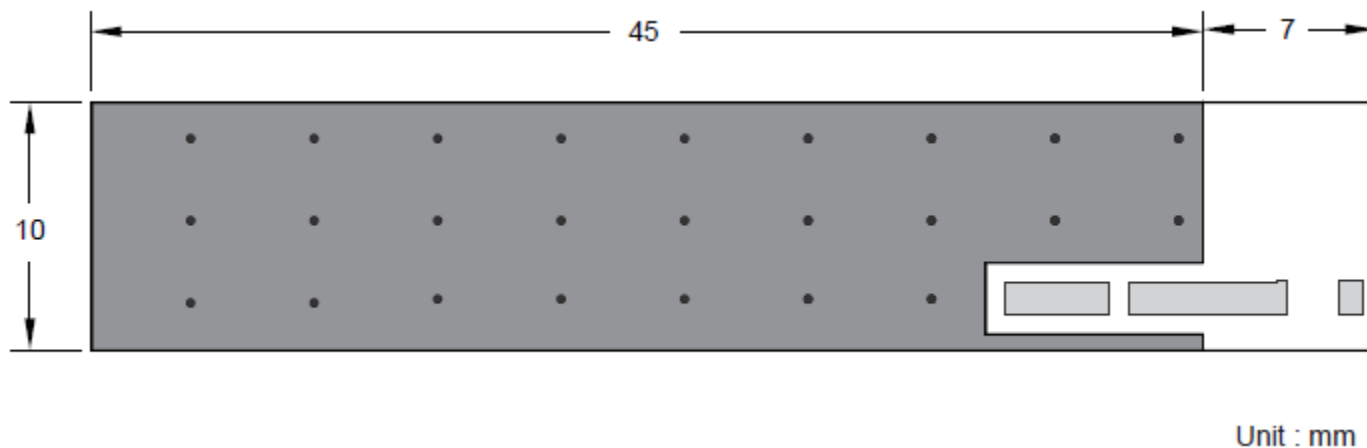
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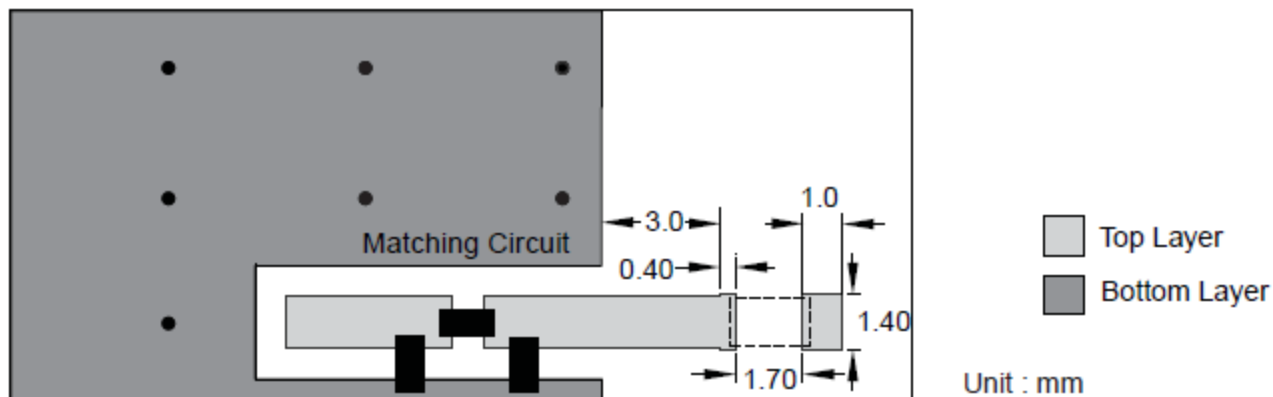
Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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

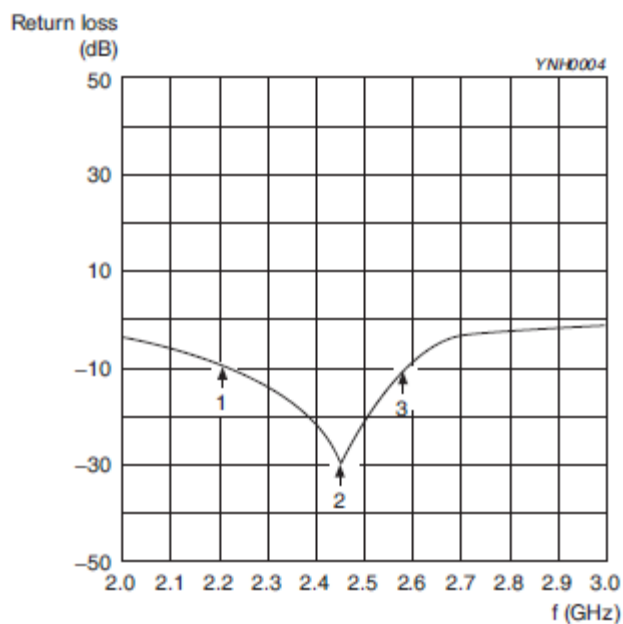
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Description: 2012 2.4GHz Chip Antenna

PART NUMBER: ANT2012LL00R2400A

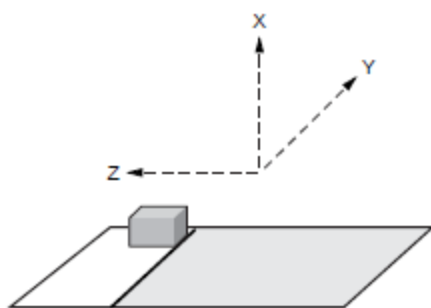
ELECTRICAL PERFORMANCES



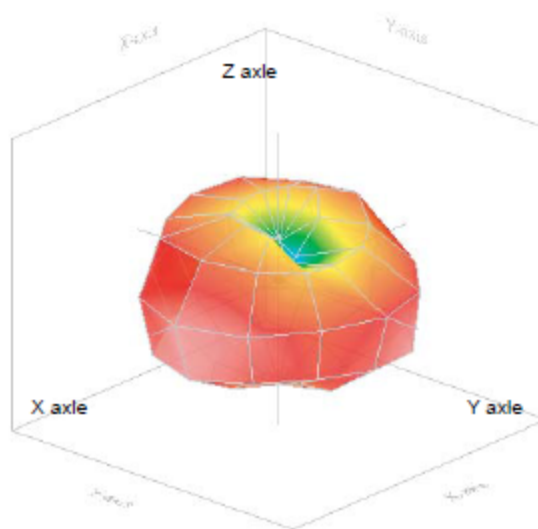
Marker data

1. 2.21GHz, -10dB
2. 2.45GHz, -28.5dB
3. 2.58GHz, -10dB

Return loss



Evaluation board and XYZ direction



Radiation pattern

Frequency = 2.45 GHz
Max gain = 3.77 dBi, at (90,240)
MEG (mean effective gain) = -193 dBi
Directivity (dB) = 4.61
Efficiency = -0.84 dB, 82.93 %

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Description: 2012 2.4GHz Chip Antenna

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 13, 2020	- New issue