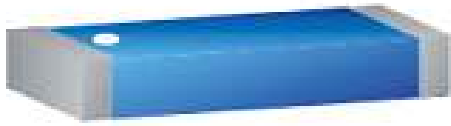


Description: 1204 433MHz Chip Antenna

PART NUMBER: ANT1204LL20R0433A

Features:

- Size : 12.0x4.0x1.5 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

- Smart meter
- Industrial remote control
- 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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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

Description: 1204 433MHz Chip Antenna

PART NUMBER: ANT1204LL20R0433A

ELECTRICAL SPECIFICATIONS

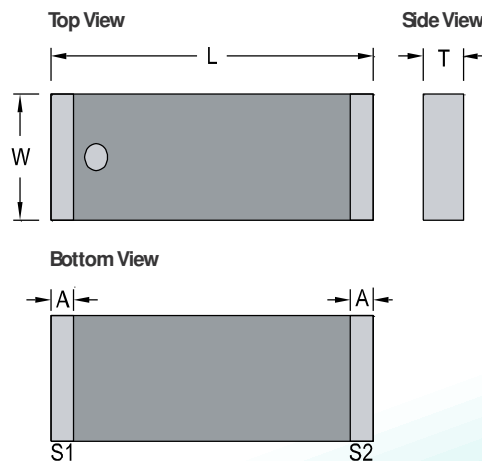
Working Frequency	433 MHz
Bandwidth	28 MHz(Typ.)
Return Loss	6.5 dB Min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	0.83 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	12.0 ±0.50
W (mm)	4.00 ±0.50
T (mm)	1.50 ±0.30
A (mm)	0.85 ±0.30



Terminal name	Function
S1	Feeding Point
S2	Soldering Point

YNH00128

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

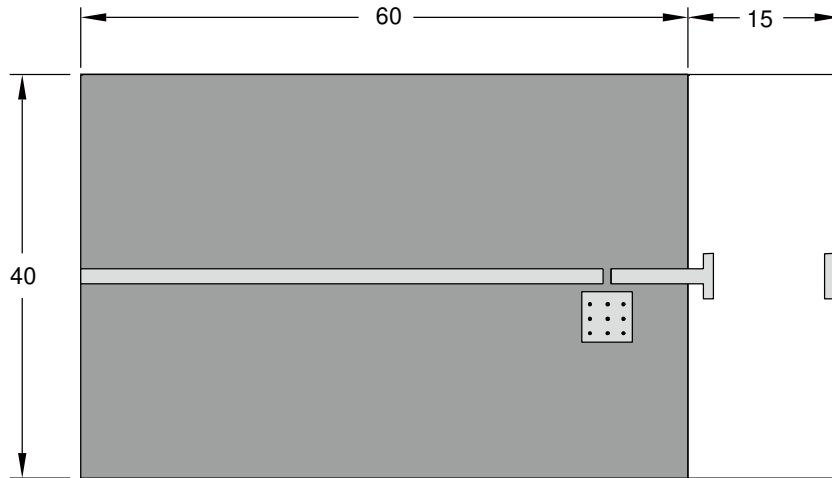
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Description: 1204 433MHz Chip Antenna

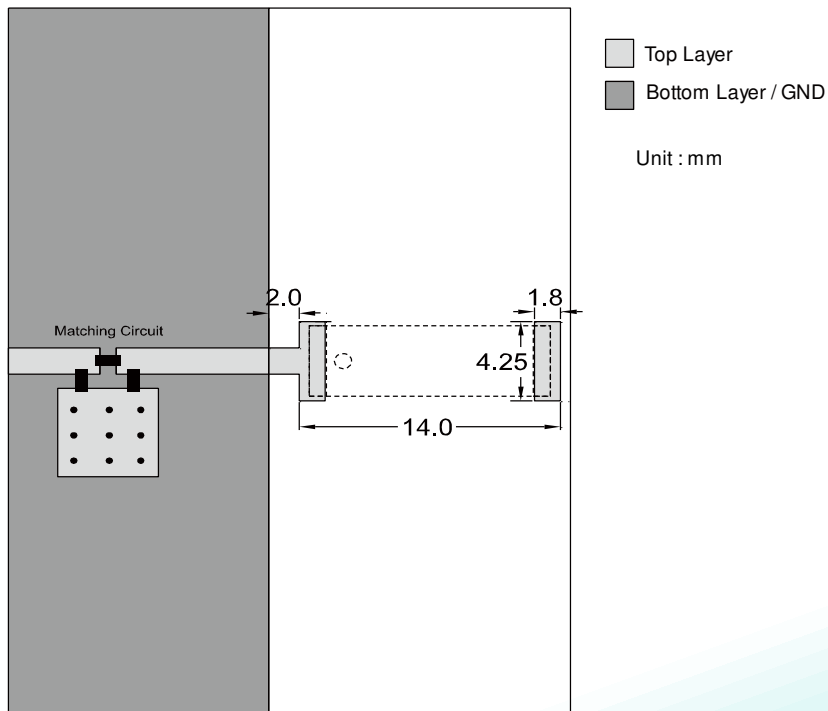
PART NUMBER: ANT1204LL20R0433A

REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Unit : mm

Details of soldering Pad

YNH00129-1

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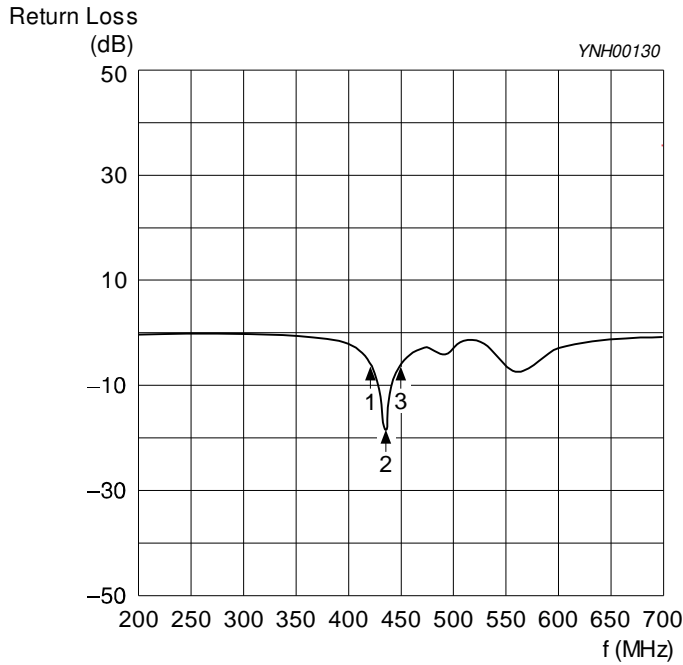
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Description: 1204 433MHz Chip Antenna

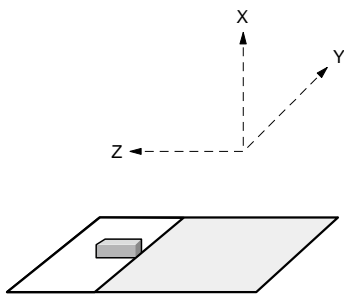
PART NUMBER: ANT1204LL20R0433A

ELECTRICAL PERFORMANCES



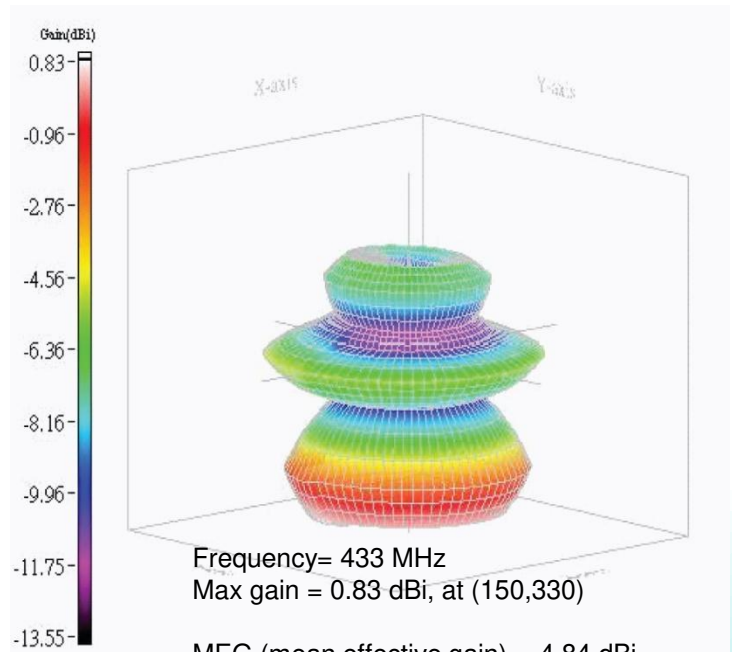
Marker data
420MHz, -6.5dB
433MHz, -17dB

Return loss



Evaluation board and XYZ direction

Radiation pattern



Frequency= 433 MHz
Max gain = 0.83 dBi, at (150,330)

MEG (mean effective gain)= -4.84 dBi
Directivity (dB) = 6.41
Efficiency = -5.57dB, 27.72 %

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Description: 1204 433MHz Chip Antenna

PART NUMBER: ANT1204LL20R0433A

REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 14, 2020	- New issue

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