

Description: 1204 870MHz Chip Antenna

PART NUMBER: ANT1204LL16R0870A

Features:

- Size : 12.0x4.0x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- Smart meter
- Industrial remote control
- ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency	870 MHz
Bandwidth	15 MHz(Typ.)
Return Loss	6.49 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.05 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

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

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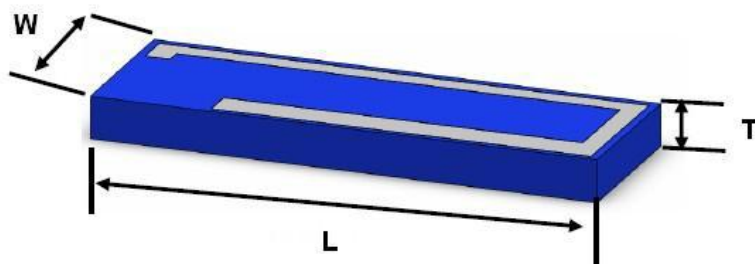
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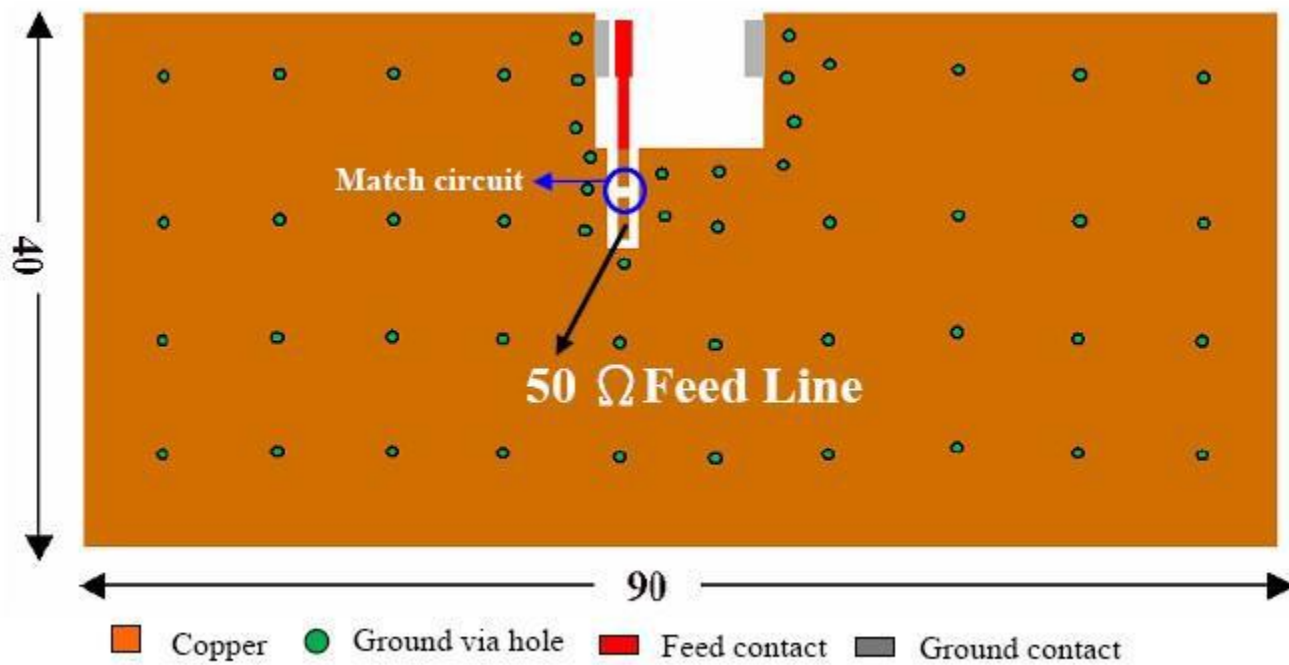
MECHANICAL DRAWING

	Dimension
L (mm)	12.0 ±0.10
W (mm)	4.00 ±0.10
T (mm)	1.20 ±0.10



Unit: mm

REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board

Unit: mm

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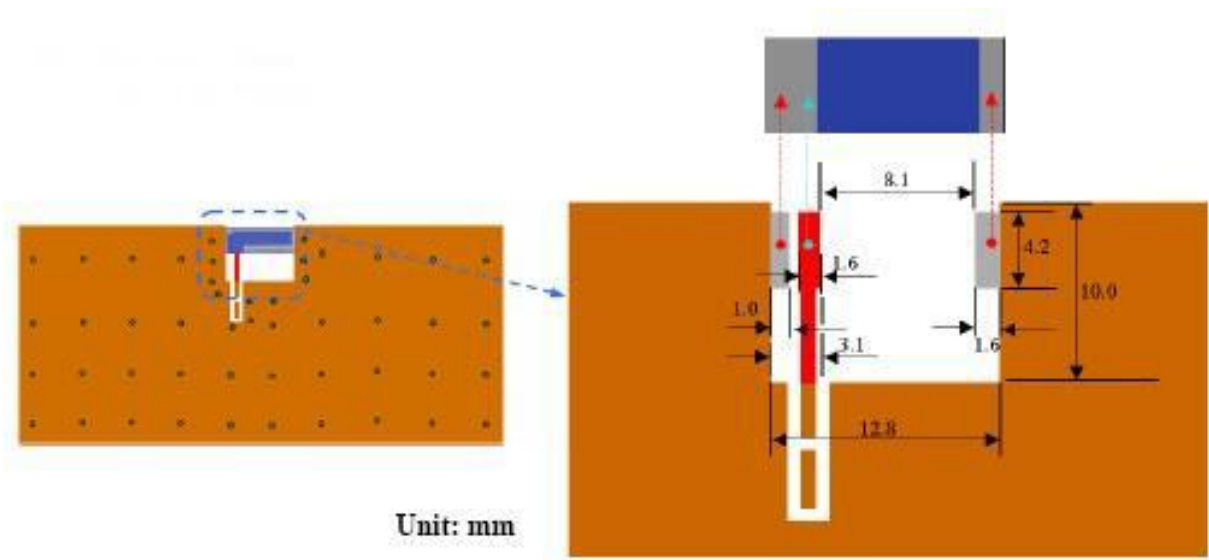
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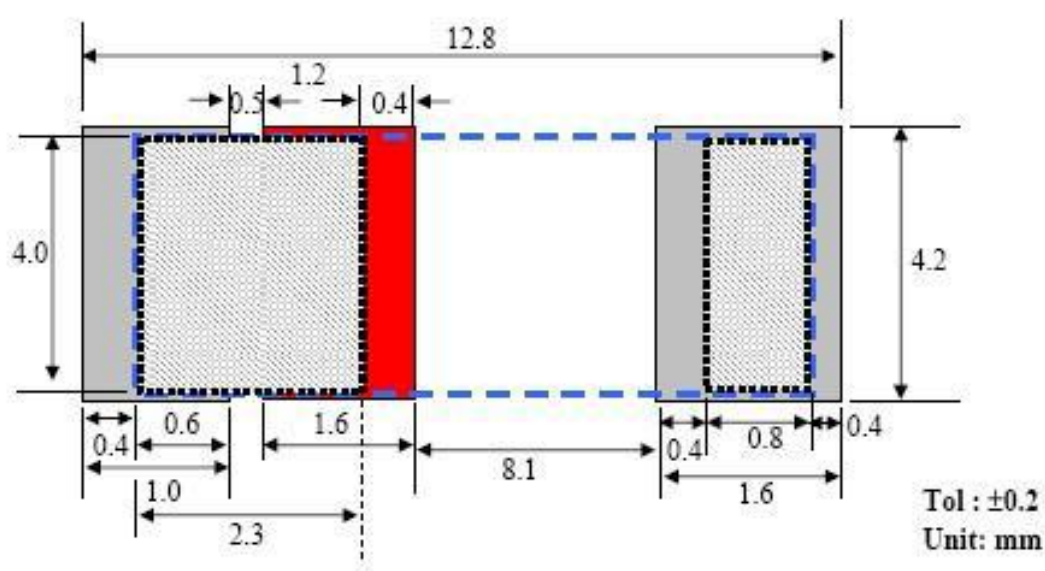
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REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm



Tol : ±0.2
Unit: mm

Details of soldering Pad

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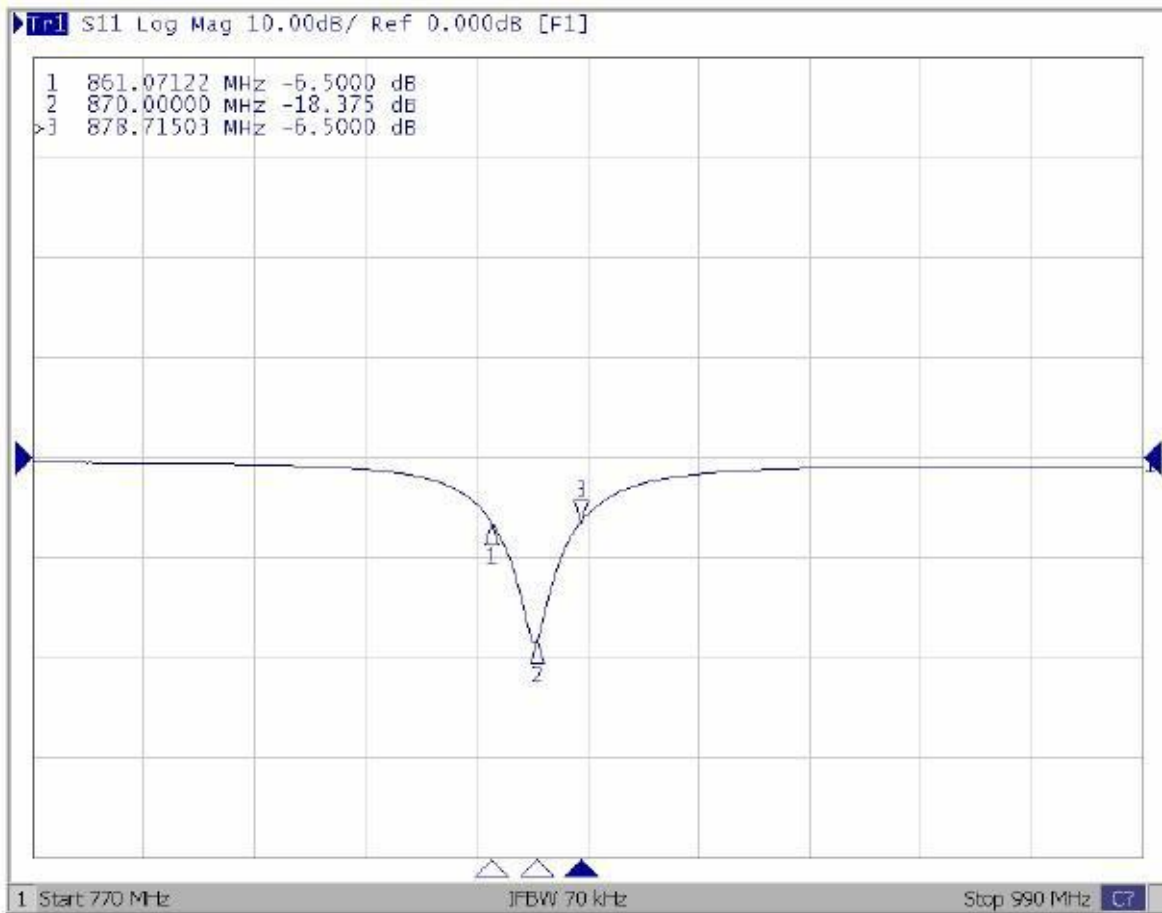
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ELECTRICAL PERFORMANCES



Marker data
 1. 861MHz, -6.5000dB
 2. 870MHz, -18.375dB
 3. 878MHz, -6.5000dB

Return loss

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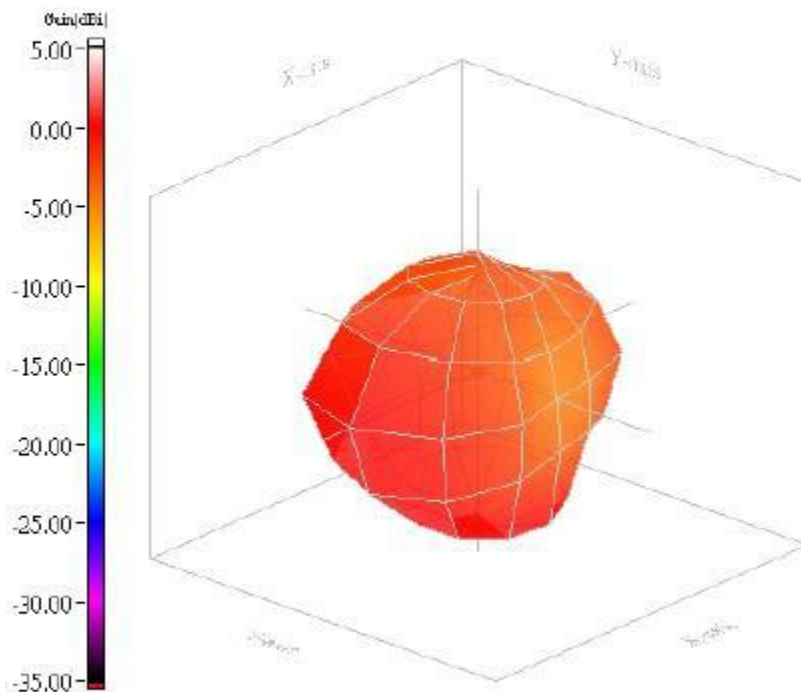
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ELECTRICAL PERFORMANCES

Model name	Test mode
small870_PIFA_C	3D
Test frequency / Polarization	Test date
870.00 MHz / Vector sum	2009/8/26



Max gain= 1.05dBi, at (180, 120)
MEG(mean effective gain)= -1.80dBi
Directivity(dB)= 3.38
Efficiency= -2.33dB, 58.49%

Frequency= 870MHz
Max gain = 1.05 dBi, at (180, 120)
MEG (mean effective gain)= -1.80 dBi
Directivity (dB) = 3.38
Efficiency = -2.33 dB, 58.49 %

Radiation pattern

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REVISION HISTORY

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

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