

Description: 1204 900/1800MHz Chip Antenna

PART NUMBER: ANT1204LL00R0918A

Features:

- Size : 12.0x4.40x1.20 mm
- High radiation efficiency
- Multi-band coverage
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- Global cellular network devices
- Telematics
- Cellular broadband access
- M2M module

ELECTRICAL SPECIFICATIONS

Centre Frequency	900/1800 MHz
Bandwidth	20 MHz (Typ.)
VSWR	3.0 Max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	-1.60dBi / 1.08dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	2 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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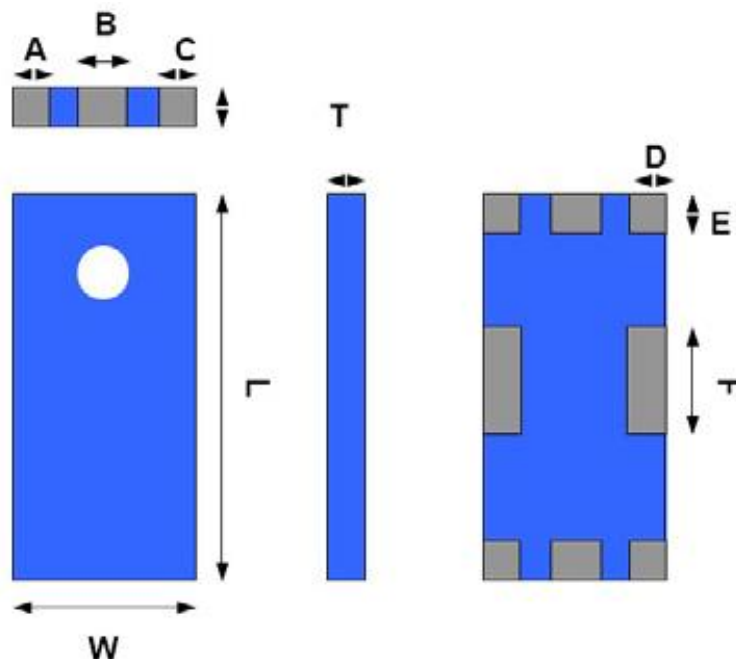
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MECHANICAL DRAWING

	Dimension
L (mm)	12.0 ± 0.50
W (mm)	4.40 ± 0.50
T (mm)	1.20 ± 0.30
A (mm)	0.80 ± 0.30
B (mm)	1.00 ± 0.30
C (mm)	0.80 ± 0.30
D (mm)	0.80 ± 0.30
E (mm)	0.80 ± 0.30
F (mm)	3.00 ± 0.50

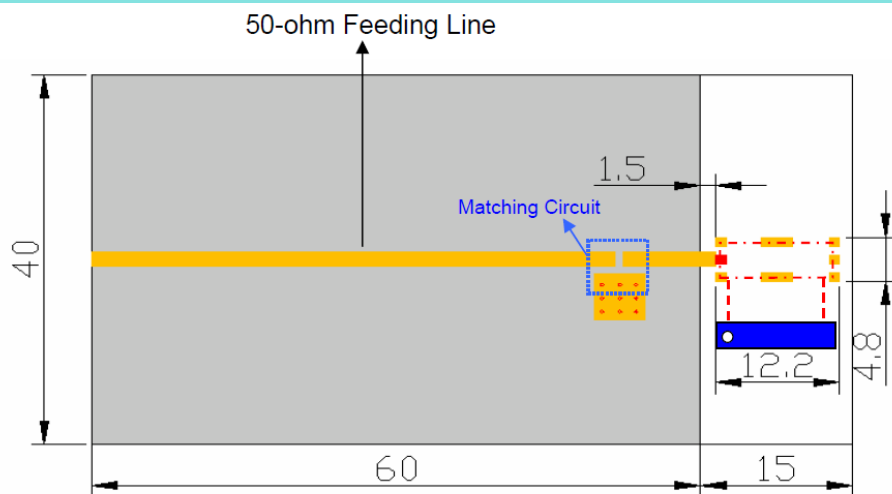
Terminal name	Function
A	Solder
B	Feed
C	Solder
D	Solder
E	Solder
F	Solder



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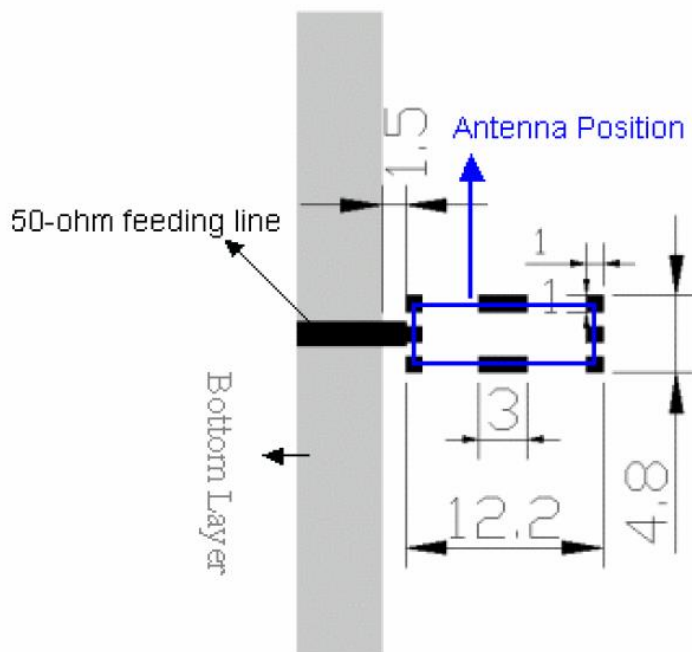
REFERENCE DESIGN OF EVALUATION BOARD



■ Copper (Top layer) ● Ground via hole ■ Feed contact ■ Ground (Bottom layer)

Unit : mm

Outlook and dimension of evaluation board



Unit: mm

Details of soldering Pad

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REFERENCE DESIGN OF EVALUATION BOARD

Model name

1204

Test mode

3D

Test frequency / Polarization

950.00 MHz / Vector sum

Test date

2013/5/28

Model name

1204

Test mode

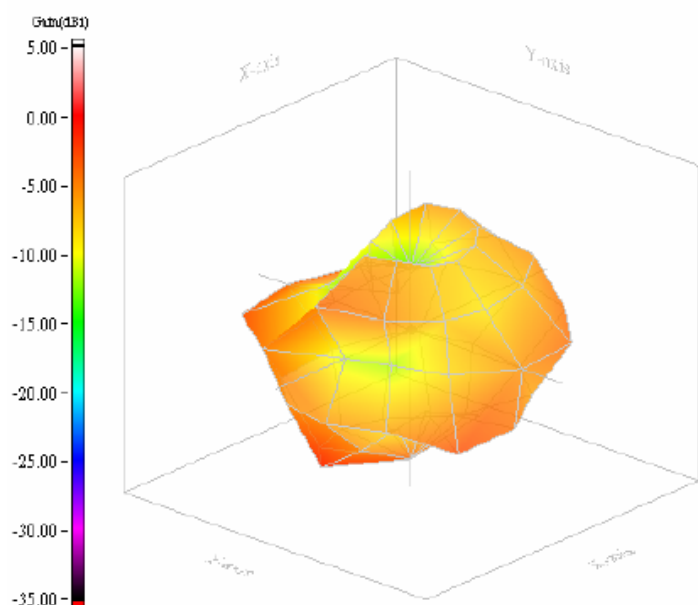
3D

Test frequency / Polarization

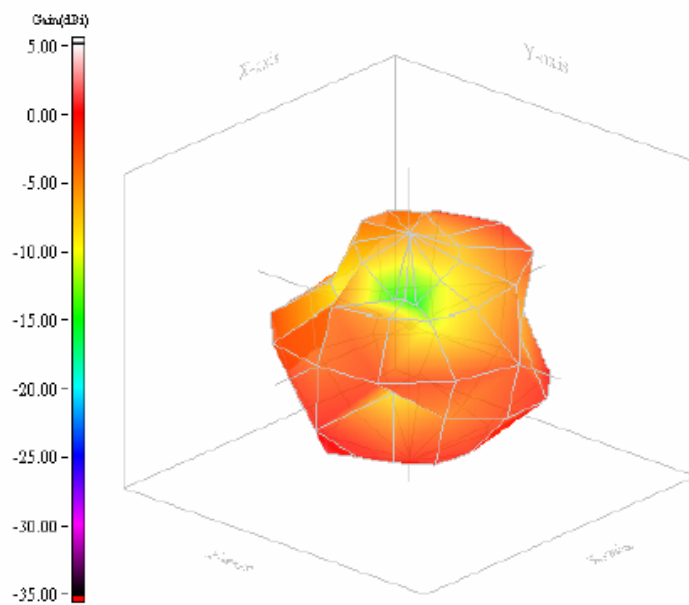
1800.00 MHz / Vector

Test date

2013/5/28



Max gain= -1.60dBi, at (150, 330)
MEG (mean effective gain)= -6.13dBi
Directivity(dB)= 4.58
Efficiency= -6.18dB, 24.09%



Max gain= 1.08dBi, at (150, 330)
MEG (mean effective gain)= -2.64dBi
Directivity(dB)= 4.58
Efficiency= -3.50dB, 44.68%

Radiation pattern

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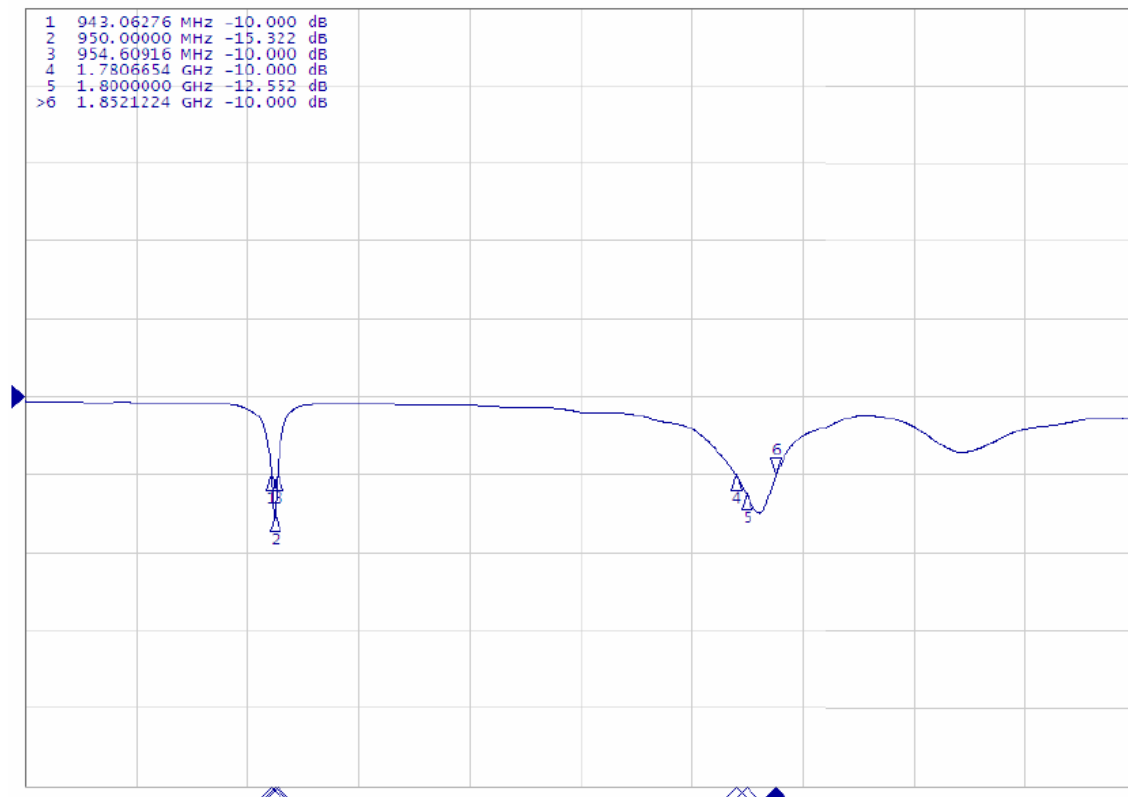
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ELECTRICAL PERFORMANCES

▶ [F1] S11 Log Mag 10.00dB / Ref 0.000dB [F1]

1	943.06276 MHz	-10.000 dB
2	950.00000 MHz	-15.322 dB
3	954.60916 MHz	-10.000 dB
4	1.7806654 GHz	-10.000 dB
5	1.8000000 GHz	-12.552 dB
>6	1.8521224 GHz	-10.000 dB



Maker data
943MHz, -10.00dB
950MHz, -15.32dB
954MHz, -10.00dB
1.78GHz, -10.00dB
1.80GHz, -12.55dB
1.85GHz, -10.00dB

Return loss

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 20, 2020	- New issue
Version 2	Apr. 11, 2021	- Updated the data of ELECTRICAL SPECIFICATIONS

Mouser Electronics

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