

**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**

<b>Centre Frequency</b>	900/1800 MHz
<b>Bandwidth</b>	20 MHz (Typ.)
<b>VSWR</b>	3.0 Max.
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	-1.60dBi / 1.08dBi (Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	2 W
<b>Termination</b>	Ni / Sn (Environmentally-Friendly Leadless)
<b>Resistance to Soldering Heats</b>	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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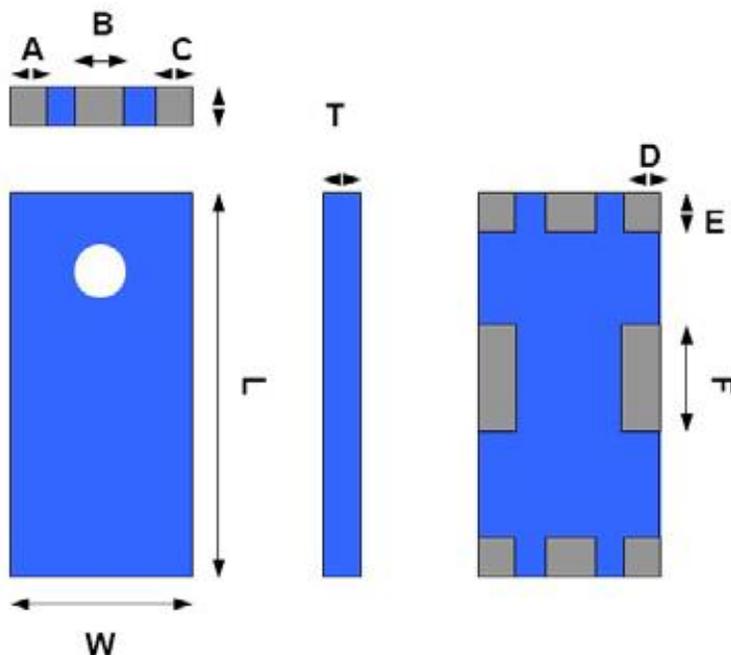
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**MECHANICAL DRAWING**

	<b>Dimension</b>
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

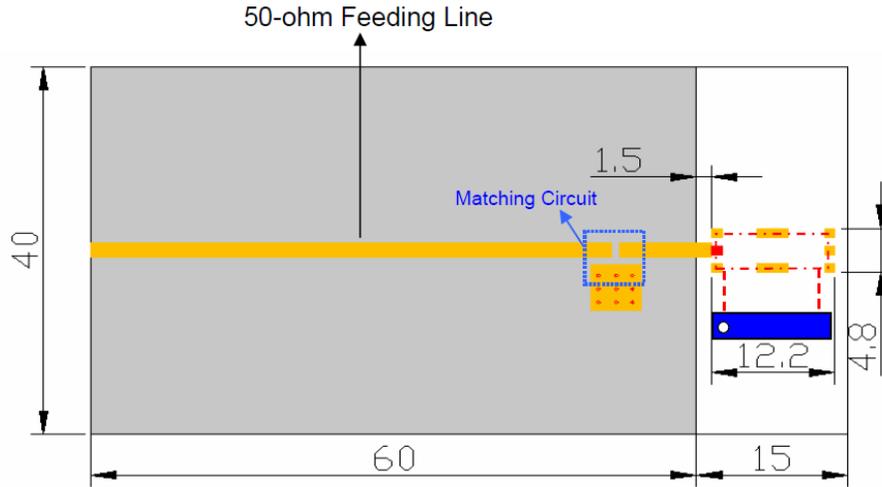
<b>Terminal name</b>	<b>Function</b>
A	Solder
B	Feed
C	Solder
D	Solder
E	Solder
F	Solder



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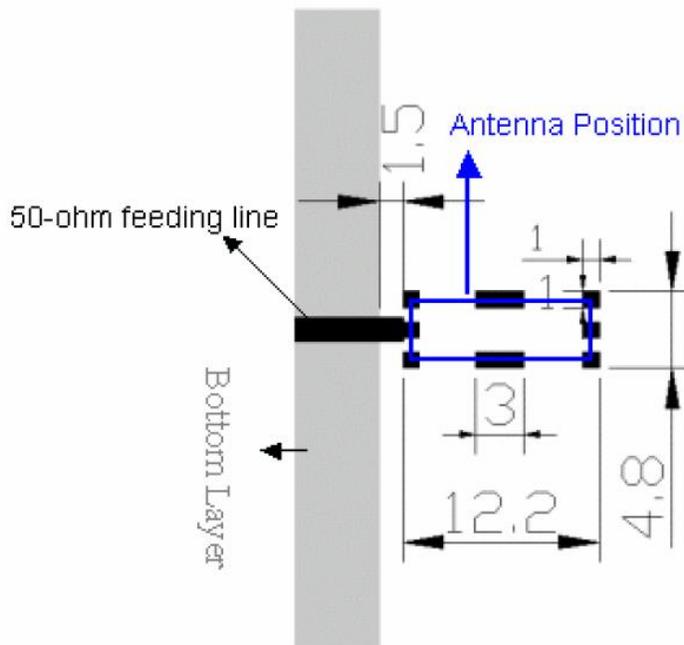
**REFERENCE DESIGN OF EVALUATION BOARD**



■ 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

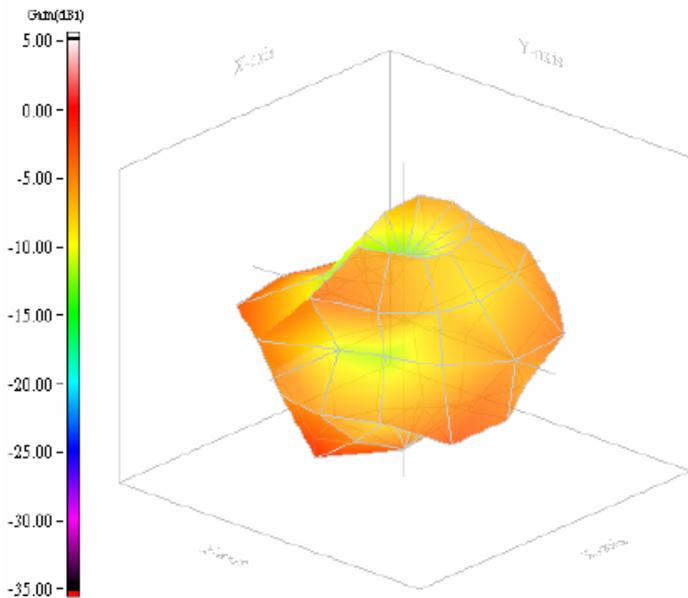
Test date  
2013/5/28

Model name  
1204

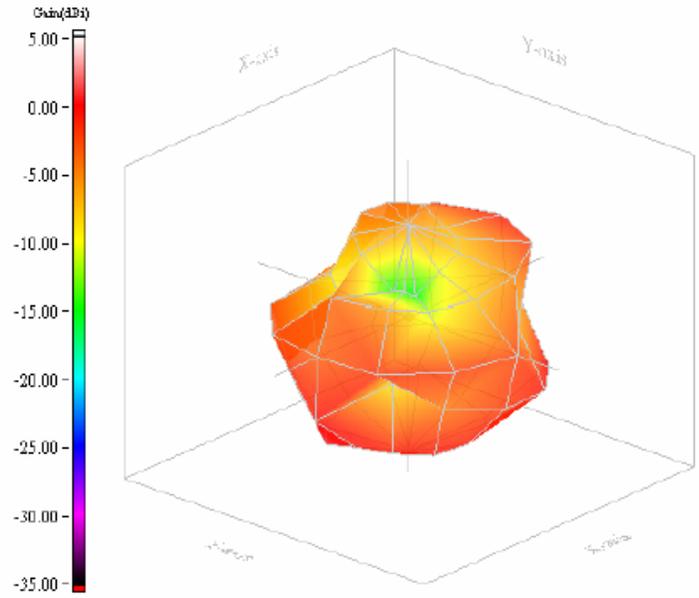
Test mode  
3D

Test frequency / Polarization  
1800.00 MHz / Vector

Test date  
2013/5/28



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



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

Radiation pattern

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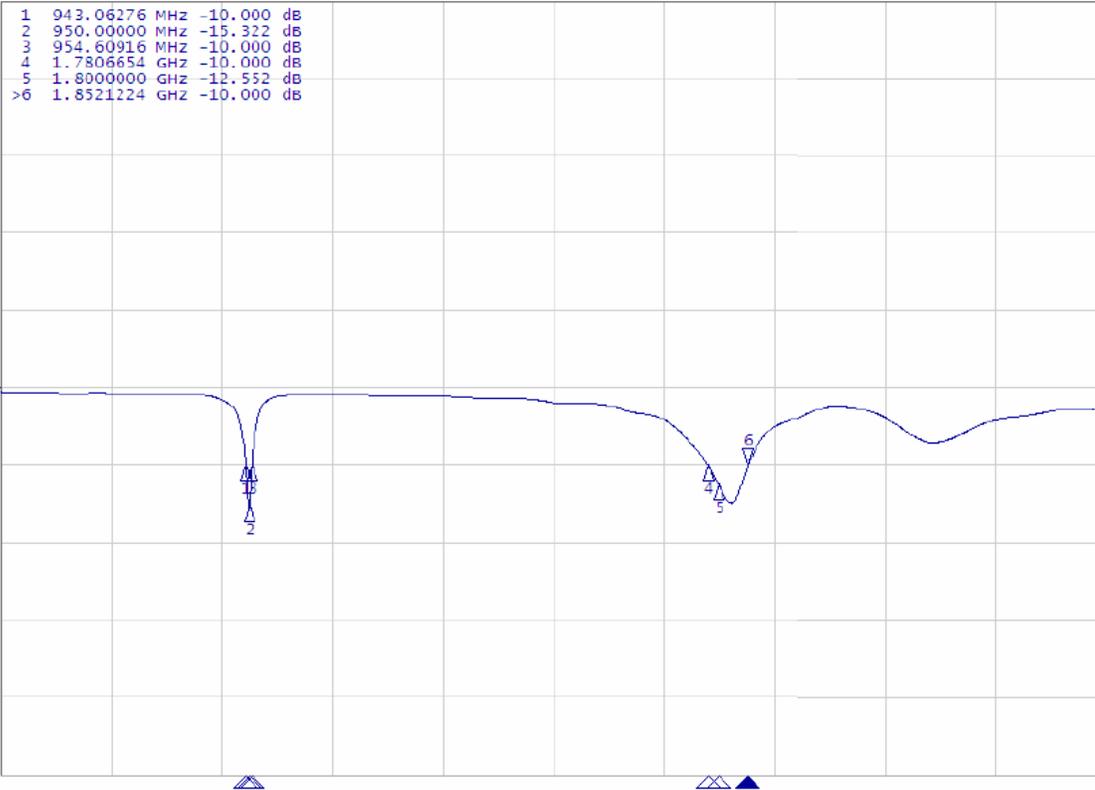
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**ELECTRICAL PERFORMANCES**

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



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

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