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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

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 boradband 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 ℃
Maximum Power	2 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

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RoHS COMPLIANT

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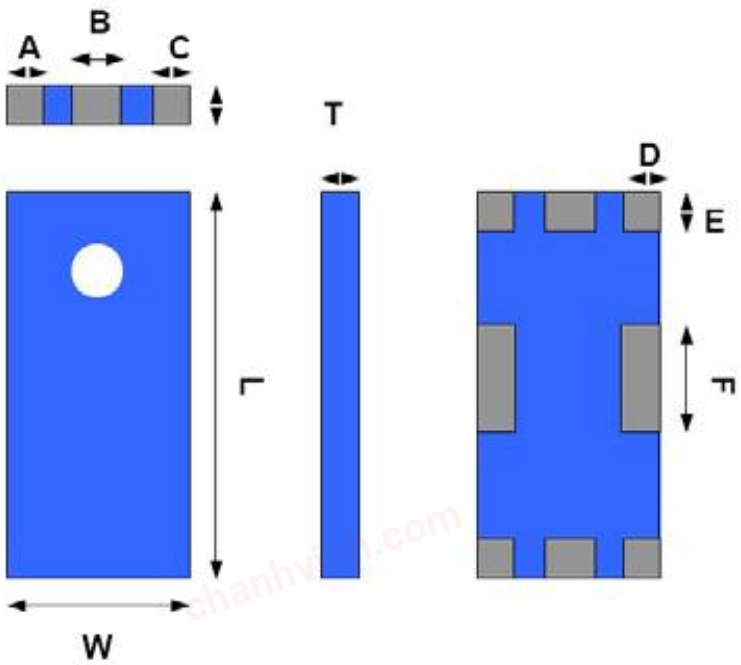
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MECHANICAL DRAWING

	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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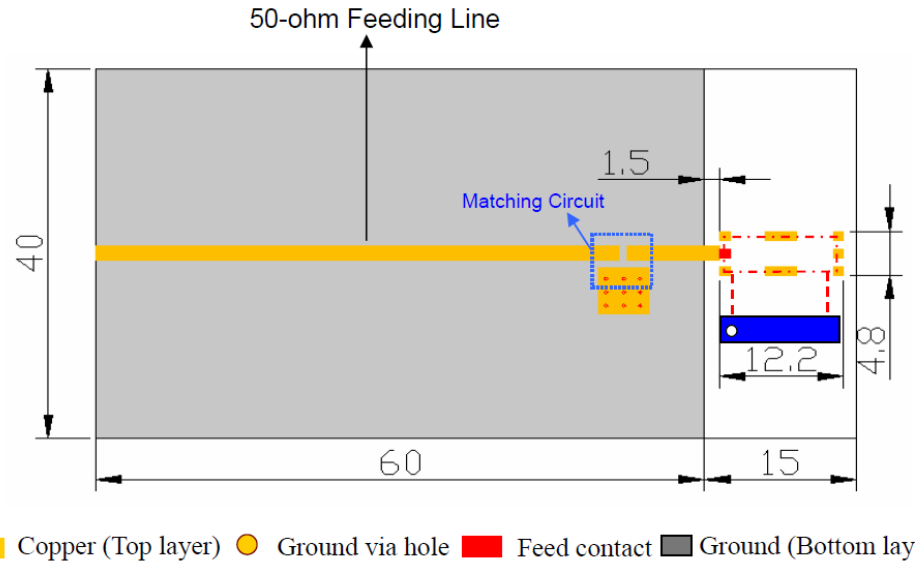
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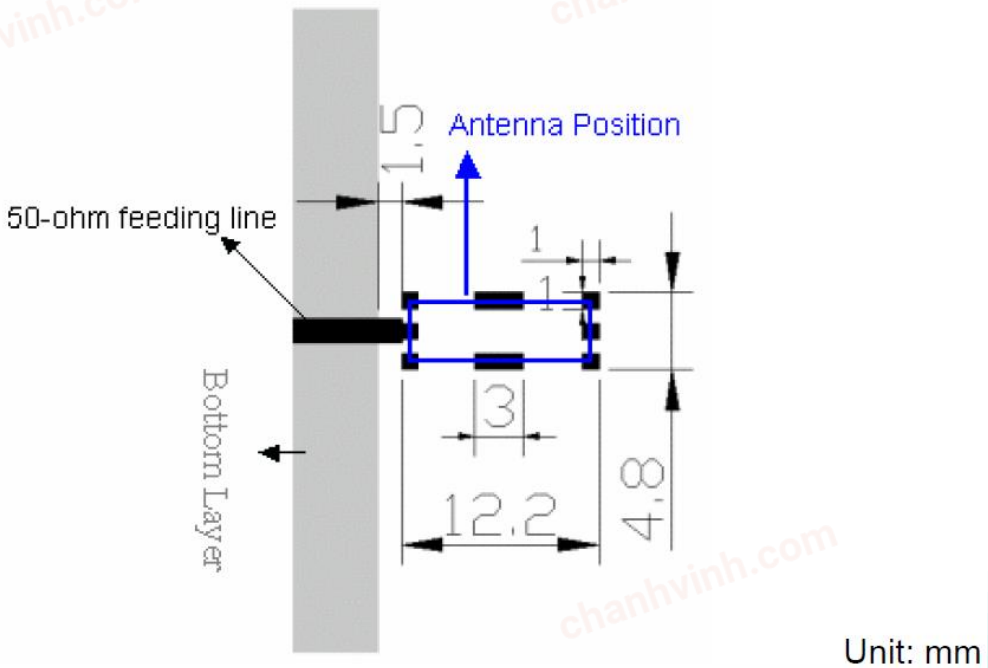
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Unit: mm

Details of soldering Pad

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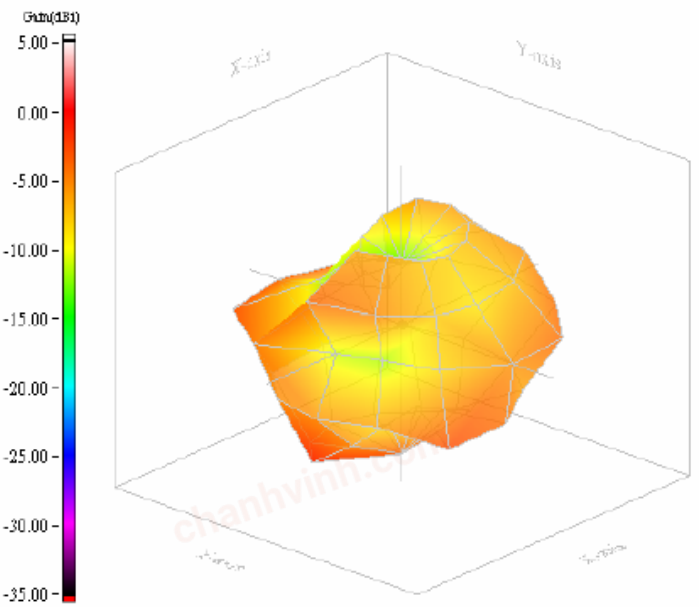
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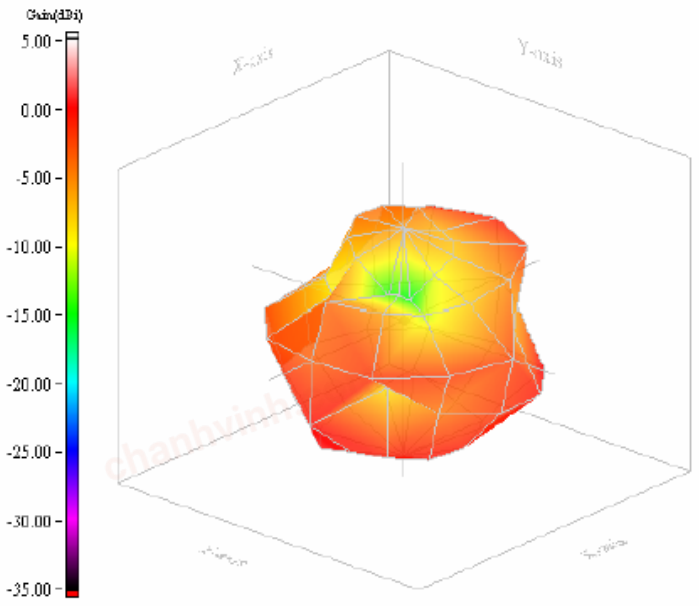
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REFERENCE DESIGN OF EVALUATION BOARD

Model name	Test mode	Model name	Test mode
1204	3D	1204	3D
Test frequency / Polarization	**Test date**	**Test frequency / Polarization**	**Test date**
950.00 MHz / Vector sum	2013/5/28	1800.00 MHz / Vector	2013/5/28



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



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

Radiation pattern

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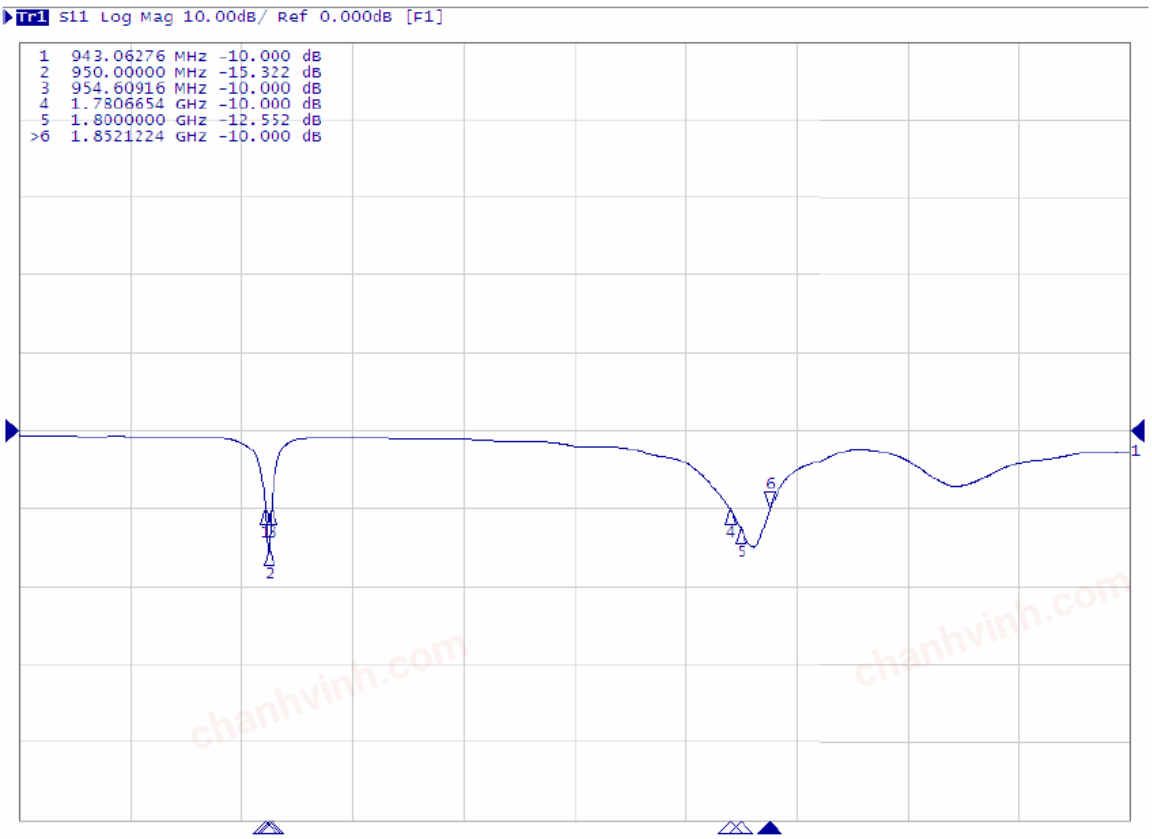
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ELECTRICAL PERFORMANCES



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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