

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
Bandwidth
VSWR
Polarization
Azimuth Beamwidth
Peak Gain

Impedance

Operating Temperature Maximum Power

Termination

Resistance to Soldering Heats

900/1800 MHz 20 MHz (Typ.) 3.0 Max. Linear Omni-directional -1.60dBi / 1.08dBi (Typ.)

50 Ω - 40∼105 ℃

2 W

Ni / Sn (Environmentally-Friendly Leadless)

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. CONFIDENTIAL AND PROPRIETARY INFORMATION

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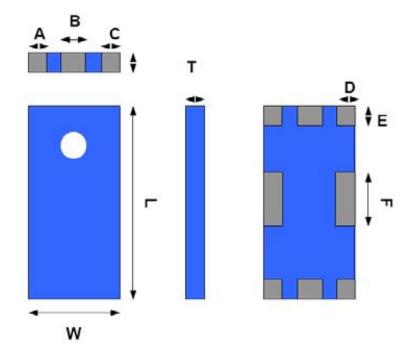
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MECHANICAL DRAWING

	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
В	Feed
С	Solder
D	Solder
E	Solder
F	Solder

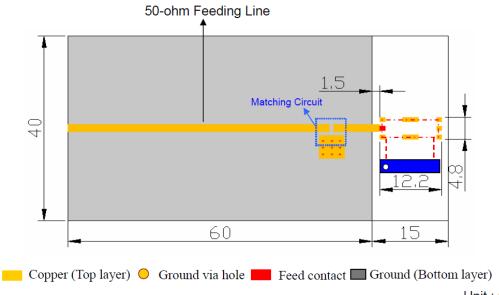




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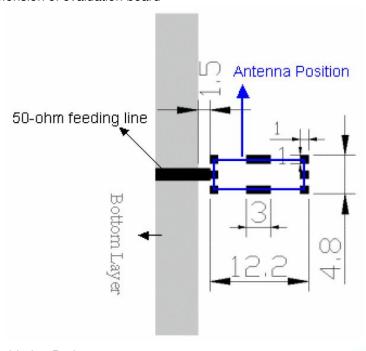
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REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm

Outlook and dimension of evaluation board



Unit: mm

Details of soldering Pad



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REFERENCE DESIGN OF EVALUATION BOARD Model name Model name Test mode 1204 3D 1204 3D Test frequency / Polarization Test frequency / Folarization Test date 1800.00 MHz / Vector 2013/5/28 950.00 MHz / Vector sum 2013/5/28 Guin(dB1) Gain(dBi) 5.00 -5.00 - $Y_{*(1)_{1,2}^{\ast}}$ 0.00 0.00 -5.00 -5.00 -10.00 -10.00 -15.00 -15.00 -20.00 -20.00 -25.00 -25.00 --30.00 --30.00 --35.00 --35.00 -Max gain= 1.08dHi, at (150, 330) Max gam=-1 60dBi, at (150, 330) MEG (mean effective gain)= -2.64dHi MEG (mean effective gain)= -6.13dEi Directivity(dB)=4.58 Directivity(dB)=4.58 Efficiency= -3.50dB, 44.68% Efficiency= -6.18dB, 24.09%

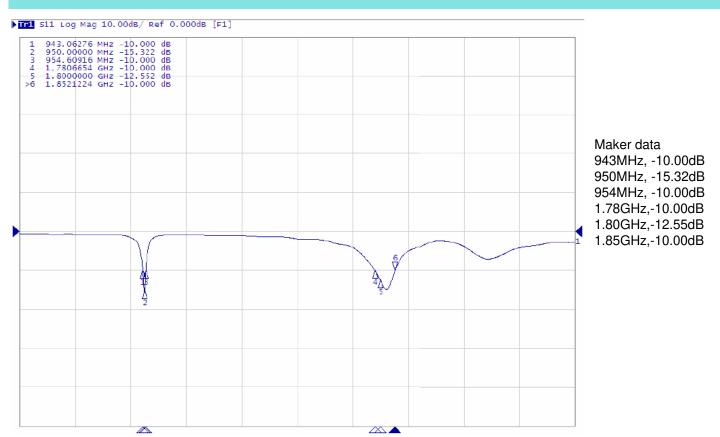
Radiation pattern



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ELECTRICAL PERFORMANCES



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