

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 °C

2 W

Ni / Sn (Environmentally-Friendly Leadless)

260°C, 10sec.

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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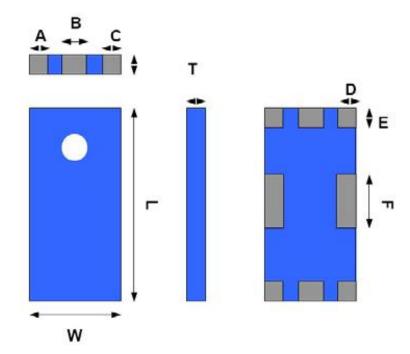
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MECHANICAL DRAWING

	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

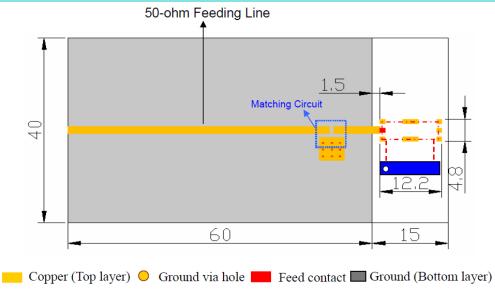




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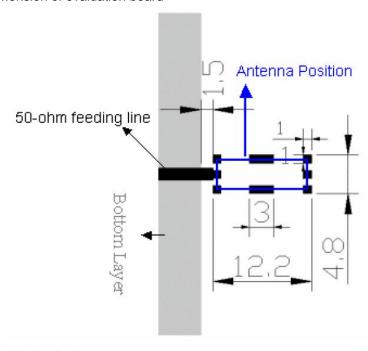
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REFERENCE DESIGN OF EVALUATION BOARD



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 Test mode Model name 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(dBi) Gain(dBi) 5.00 -5.00 - $\gamma_{\gamma \eta_{\widetilde{1}\widetilde{2}\widetilde{3}}}$ 0.00 $0.00 \cdot$ -5.00 · -5.00 · $-10.00 \cdot$ -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 gain=-1 60dBi, at (150, 330) MEG (mean effective gain)= -2.64dEi MEG (mean effective gain)= -6.13dEi Directivity (dH) = 4.58Directivity (dB) = 4.58Efficiency= -3.50dB, 44.68% Efficiency= -6.18dB, 24.09%

Radiation pattern



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ELECTRICAL PERFORMANCES



Return loss



Description: 1204 900/1800MHz Chip Antenna

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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 	