



**THE DATASHEET OF
ANT8060LL31R4000A**



Description: 8060 UWB 3.1~4.8GHz Chip Antenna
PART NUMBER: ANT8060LL31R4000A
Features:

- Size : 8.1x6.0x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- Home network connectivity
- Position location & tracking

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE
Working Frequency	3.1~4.8 GHz
Return Loss	6.5 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.34 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 30~85 °C
Maximum Power	1 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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MECHANICAL DRAWING

Dimensions	
L (mm)	8.1 ± 0.2
W (mm)	6.0 ± 0.2
T (mm)	1.2 ± 0.2
A(mm)	$2.0 \pm 0.1\text{mm}$
B(mm)	$0.3 \pm 0.1\text{mm}$

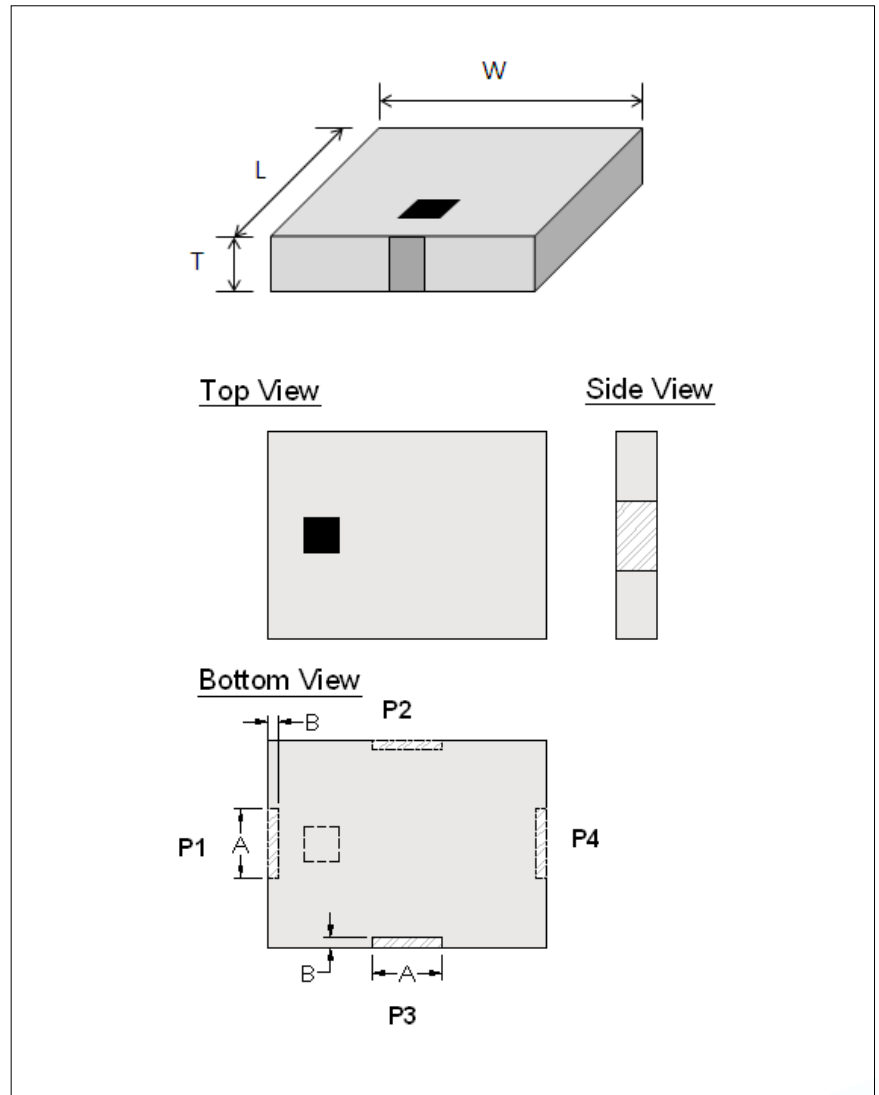


Fig. 1 Antenna outlines

Termination configuration	
P1	Feeding point
P2 - P4	Soldering point

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REFERENCE DESIGN OF EVALUATION BOARD

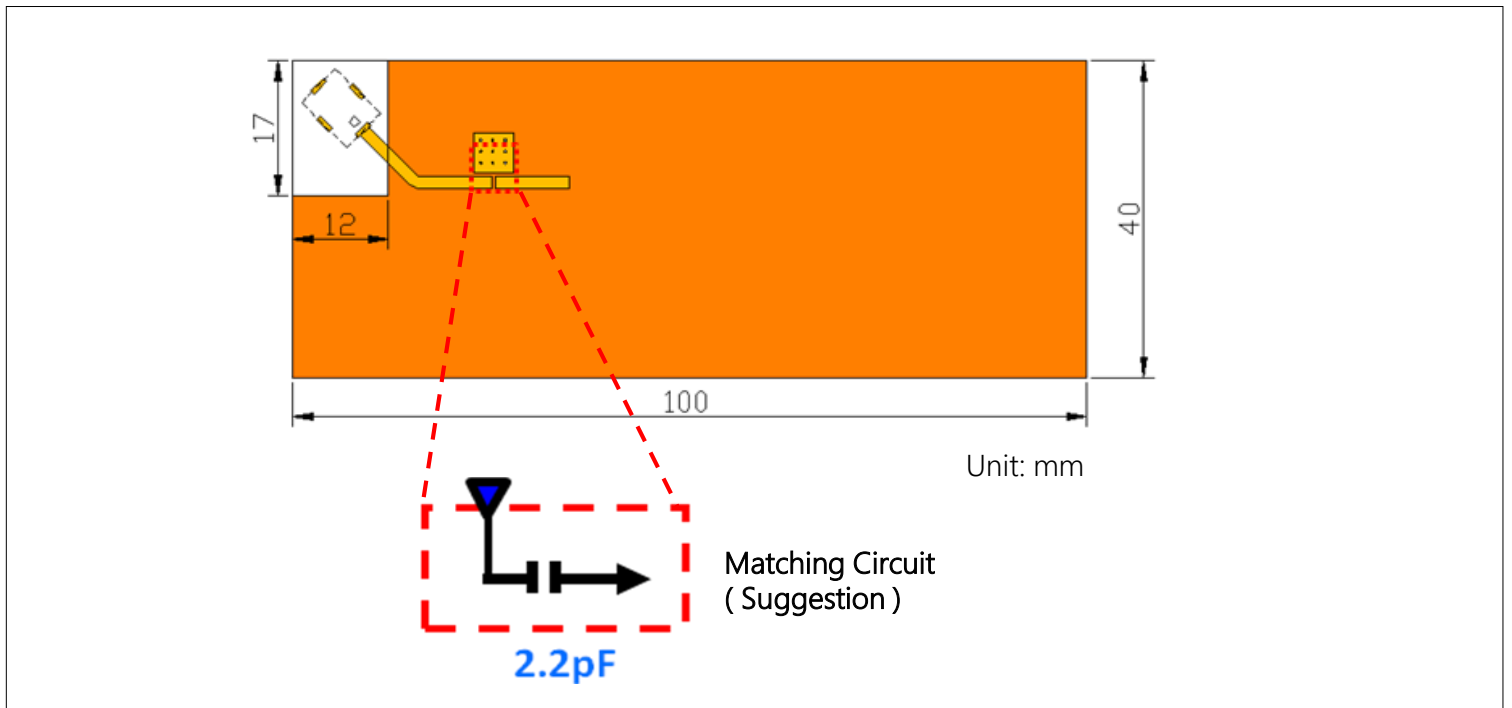


Fig. 2 Outlook and dimension of evaluation board

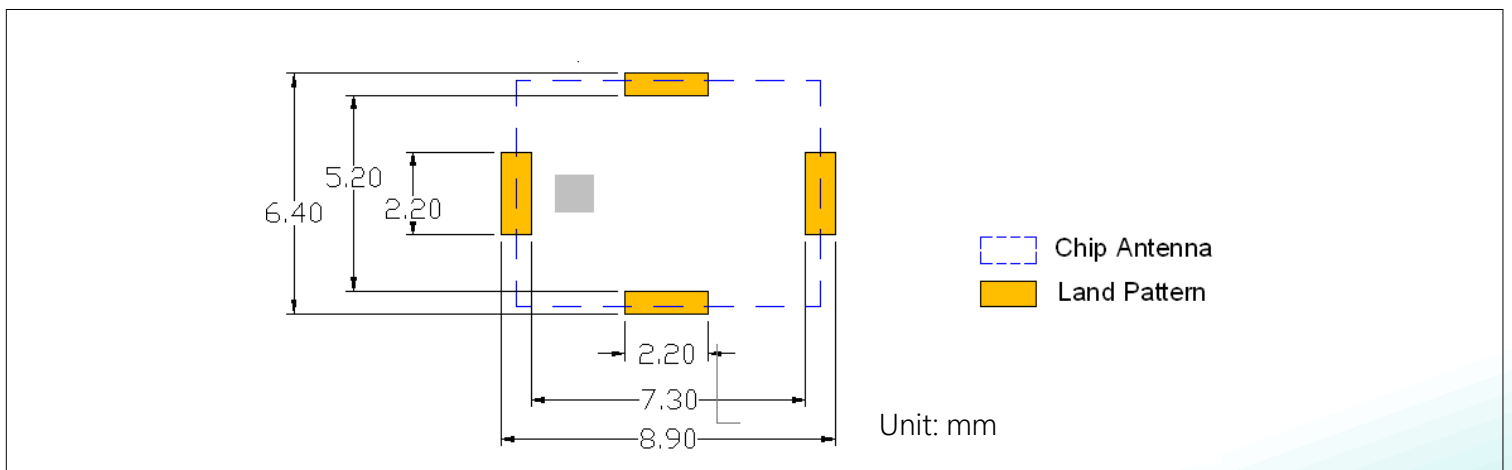


Fig. 3 Details of soldering Pad

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ELECTRICAL PERFORMANCES

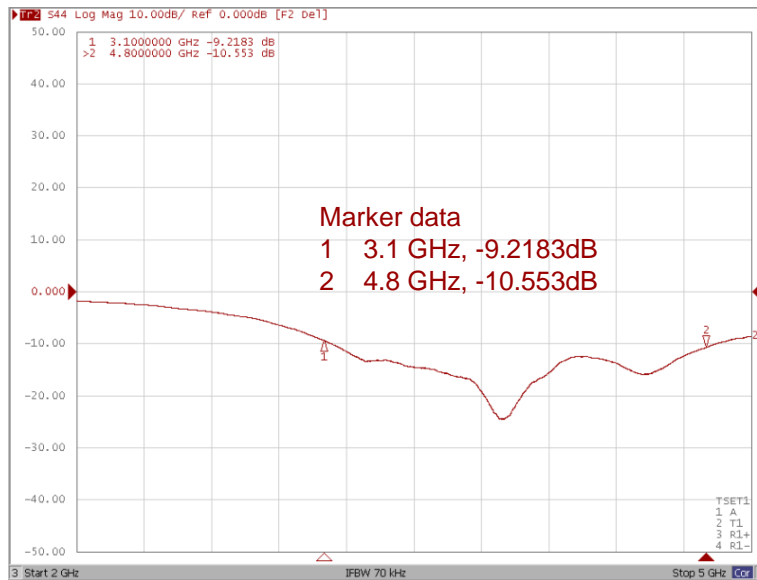


Fig. 4 Return loss

The X-Y-Z Plane Definition for the Evaluation Board

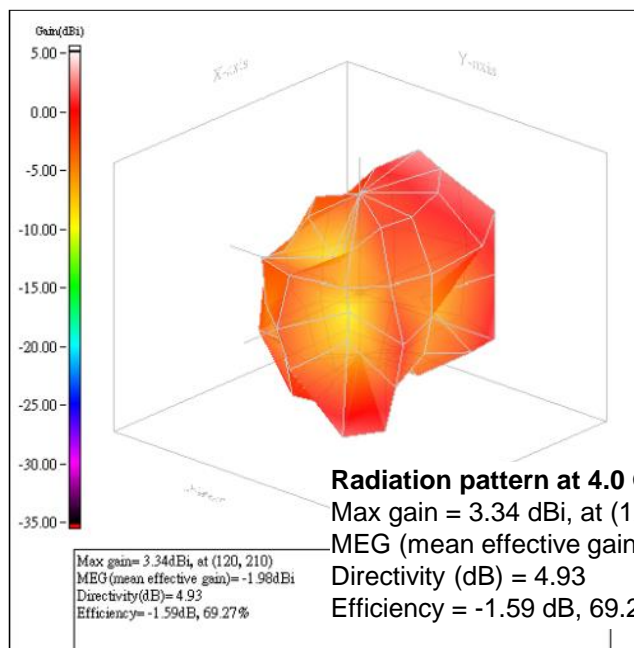
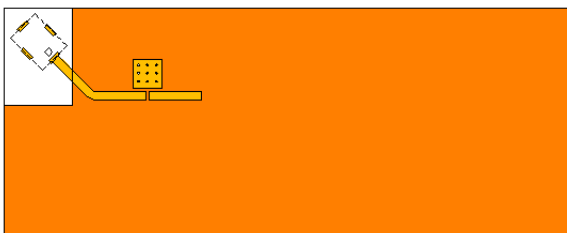


Fig. 5 Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 01	Feb. 17, 2021	- New issue

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