Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 1110 UWB 3~8GHz Chip Antenna

PART NUMBER: ANT1110LL40R2590A

Features:

- Size : 11.1 x 10.1 x 1.25 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	2.87~8.5 GHz
Return Loss	6 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	3.32 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~85 ℃
Maximum Power	1 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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MECHANICAL DRAWING

	Dimensions
L (mm)	11.1 ±0.2
W (mm)	10.1 ±0.2
H (mm)	1.25 ±0.2
A(mm)	1.55±0.2
B(mm)	0.40±0.2
C(mm)	0.40±0.2
D(mm)	2.0±0.2

	Termination configuration
F1	Feeding point

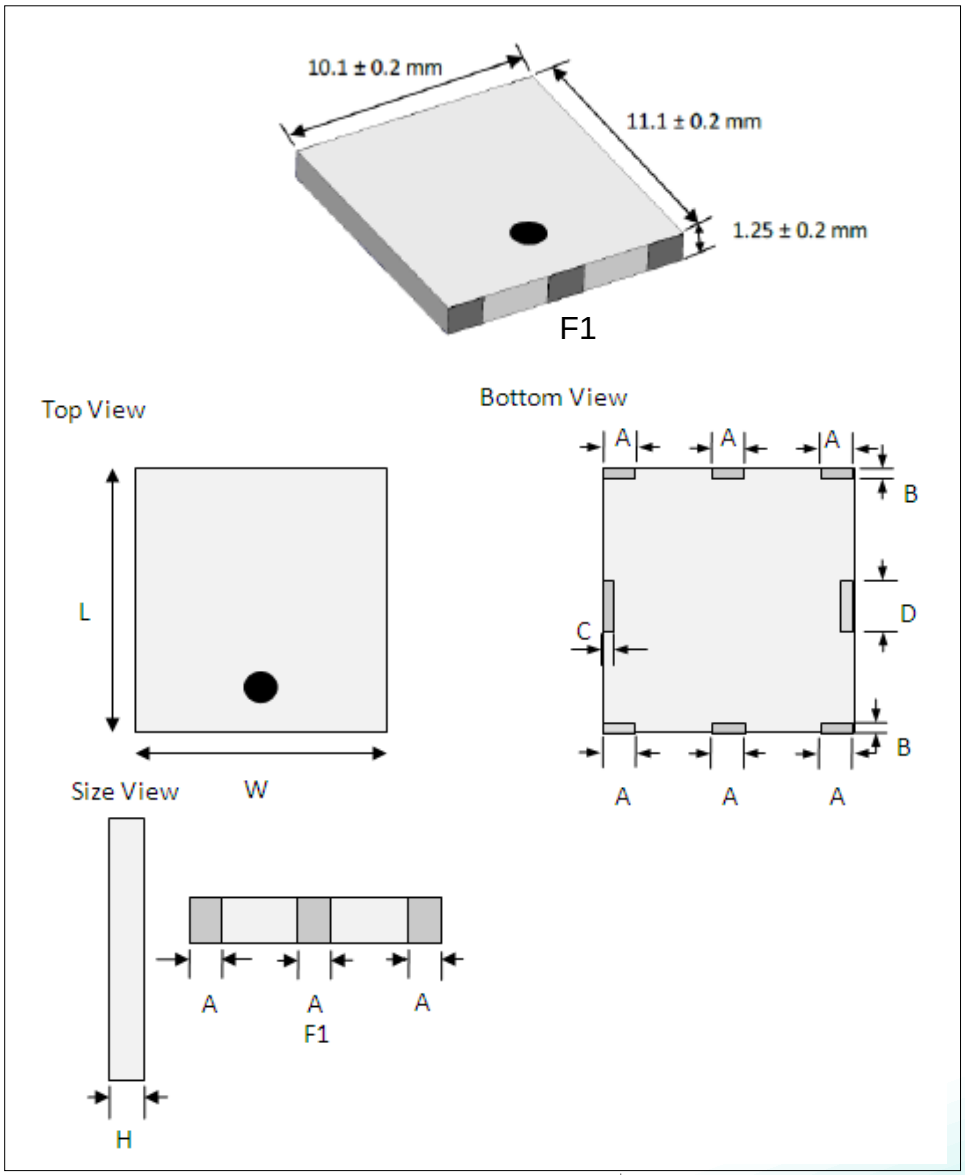

Fig. 1 Antenna outlines

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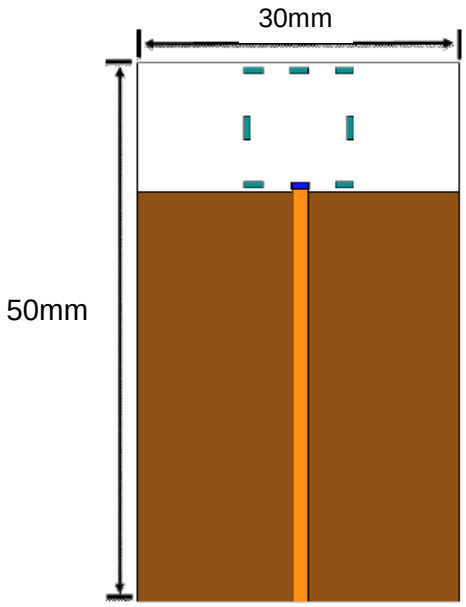
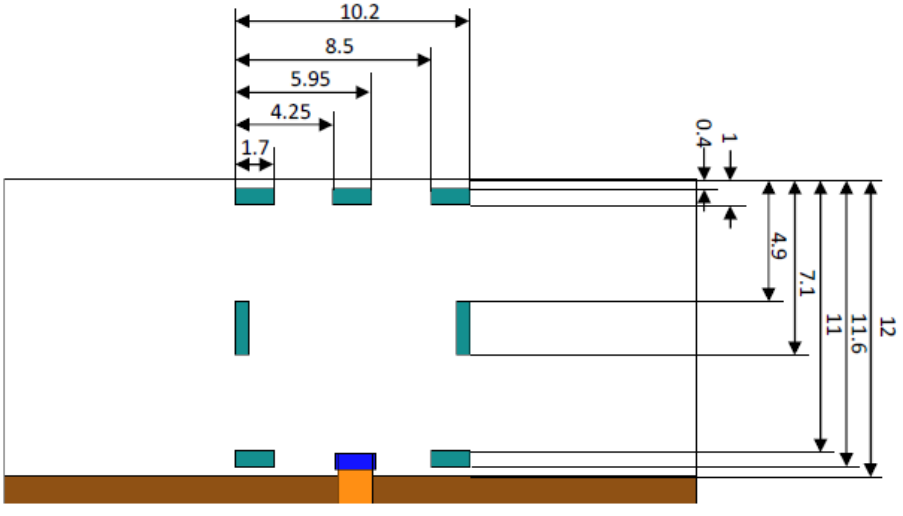
REFERENCE DESIGN OF EVALUATION BOARD



Unit: mm

Top Coper Bottom Coper Feed pad Solder pad

Fig. 2 Outlook and dimension of evaluation board



Tol : +/- 0.1
Unit : mm

Soldering Pads of Chip Antenna Footprint for Feeding

Fig. 3 Details of soldering Pad

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ELECTRICAL PERFORMANCES

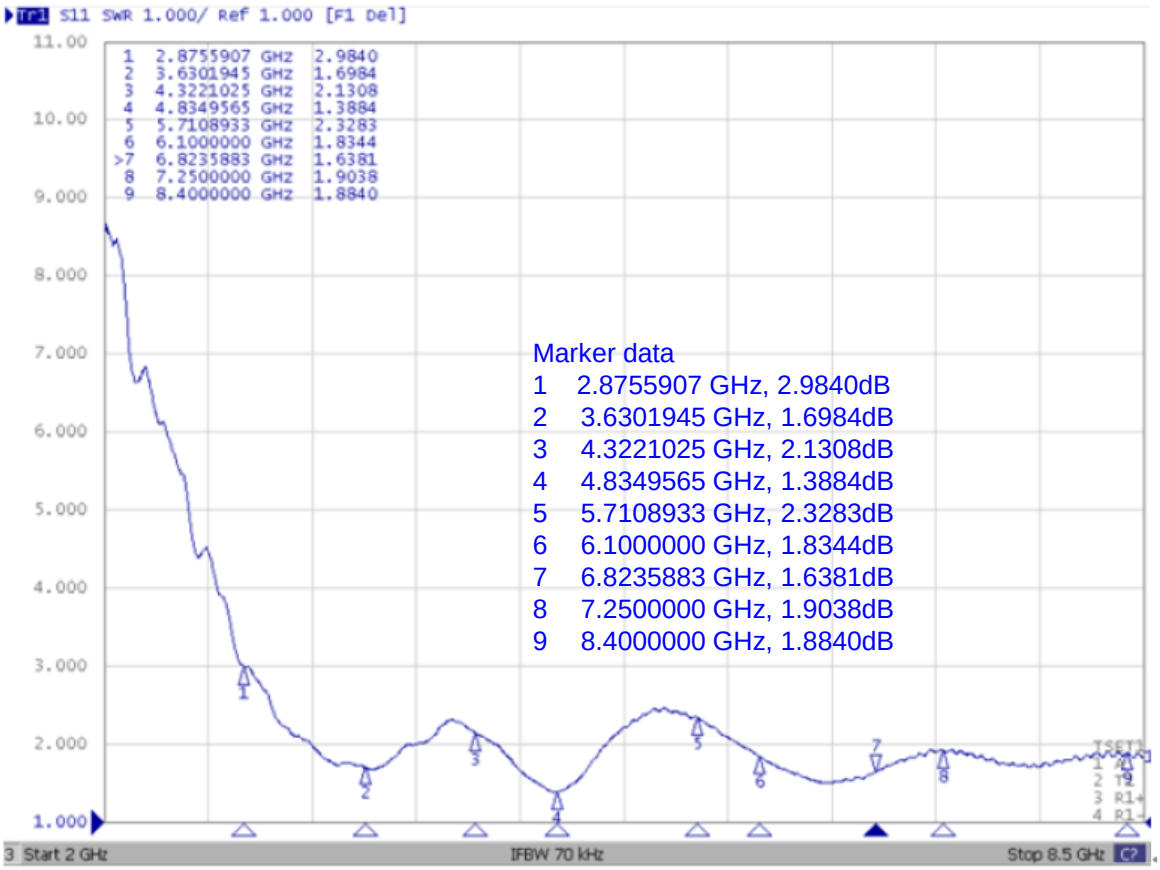

Fig. 4 Return loss

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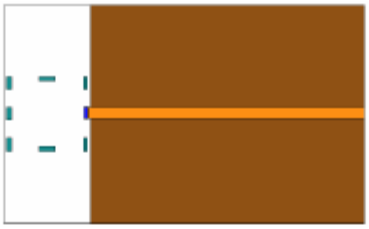
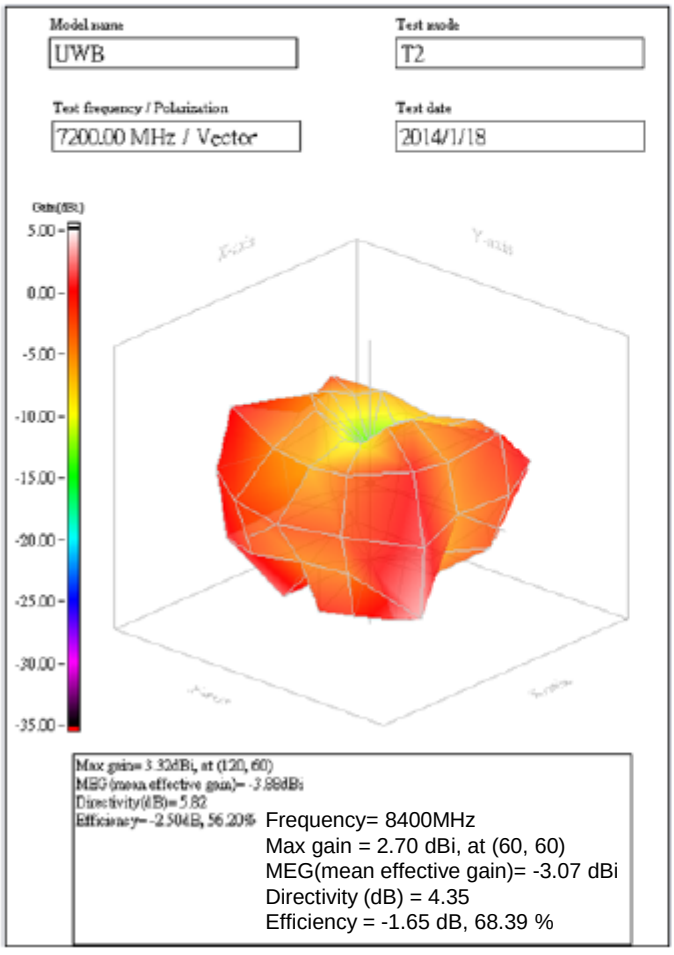
ELECTRICAL PERFORMANCES

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





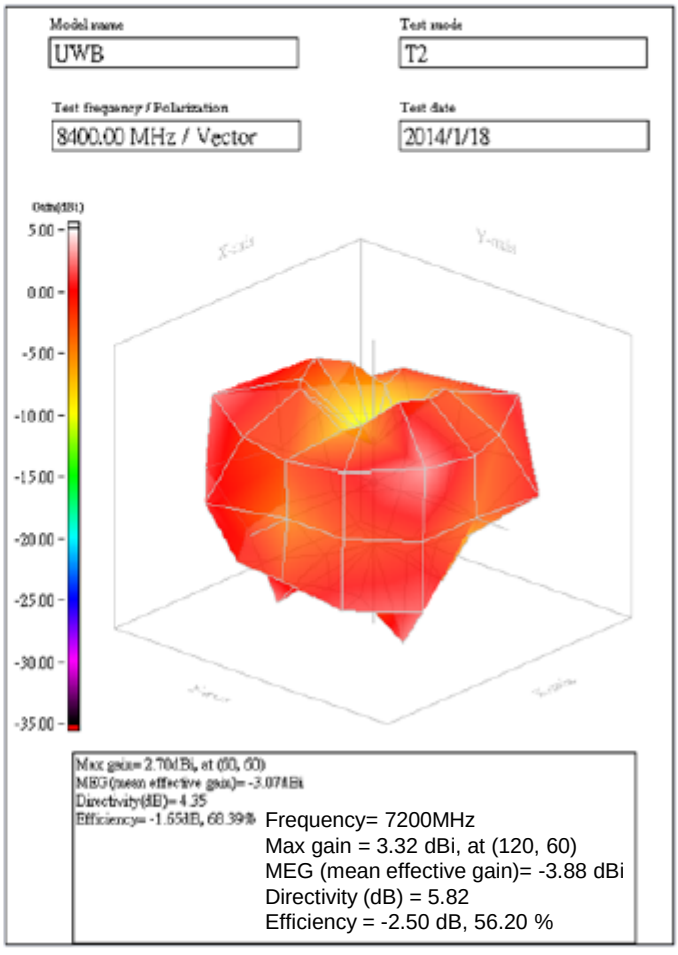


Fig. 5 Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 01	Mar. 5, 2021	- New issue for Pulse version.