

Description: 7836 2.4-2.5GHz Chip Antenna**PART NUMBER: ANT7836LL15R2400A****Features:**

- Size : 7.8x3.6x0.9 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- 2.4 GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency	2.45 GHz
Bandwidth	>100 MHz
Return Loss	10 dB (Min.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	4.1 dBi (Max.)
Impedance	50 Ω
Operating Temperature	- 40 ~ 105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)

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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For more information:



Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

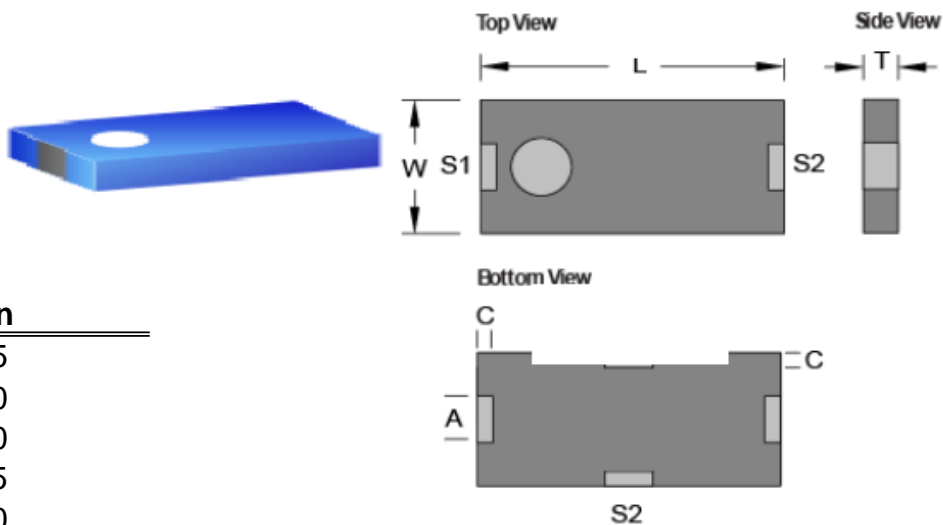
Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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MECHANICAL DRAWING



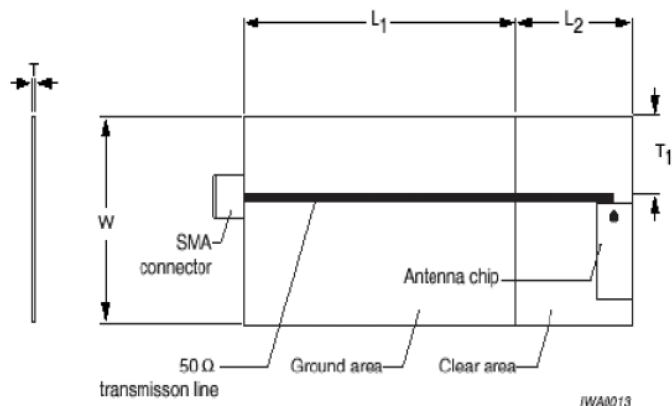
	Dimension
L (mm)	7.8 ± 0.25
W (mm)	3.6 ± 0.20
T (mm)	0.9 ± 0.20
A (mm)	1.25 ± 0.25
C (mm)	0.4 ± 0.20

Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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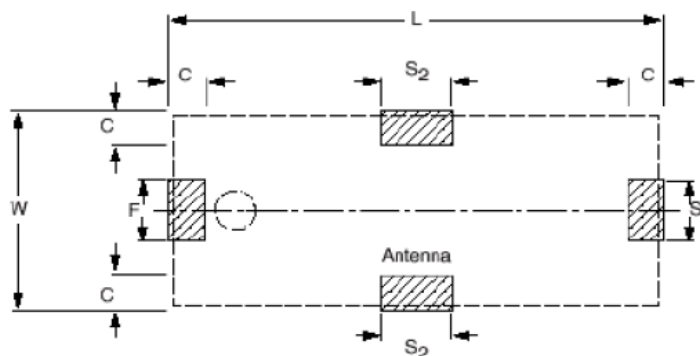
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LAYOUT OF EVALUATION BOARD



SYMBOL	DETAILS	DIMENSIONS (mm)
L1	—	30
L2	—	10
W	—	18
T	—	0.8
T1	—	5.0

Outlook and dimension of evaluation board



SYMBOL	DETAILS	DIMENSIONS (mm)
L	—	9.0 ± 0.1
W	—	4.4 ± 0.2
F	feed pad	1.4 ± 0.25
C	—	0.8 ± 0.20
S1	—	1.4 ± 0.25
S2	—	1.6 ± 0.25

Details of soldering Pad

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ELECTRICAL PERFORMANCES

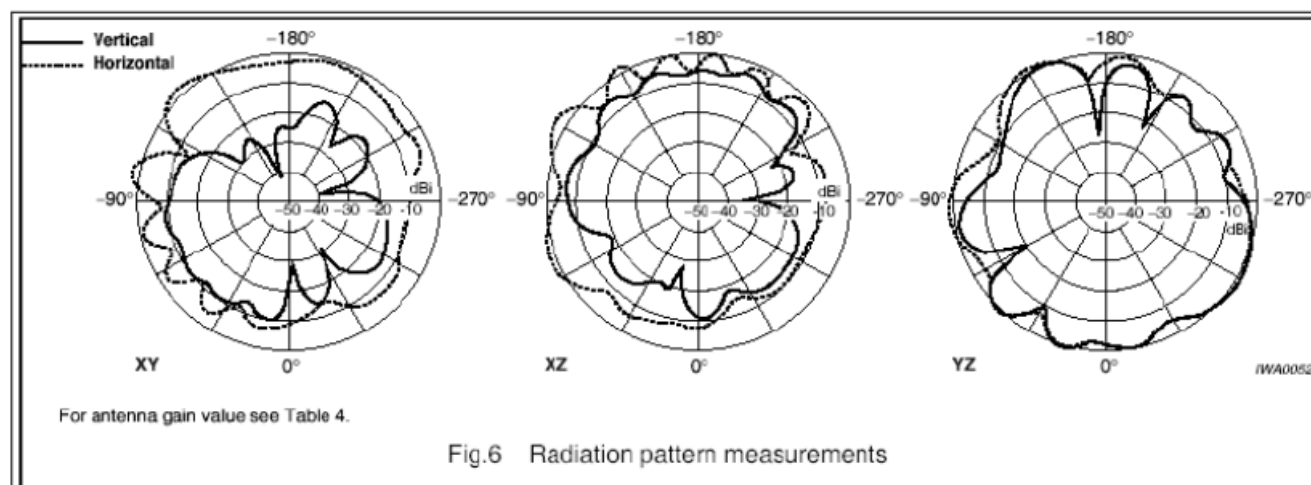


Table 4 Max. and avg. antenna gain value of radiation pattern

Plane	XY (dBi)	XZ(dBi)	YZ (dBi)
Vertical Pol. (max.)	-8.9	-4.3	1.4
Vertical Pol. (avg.)	-14.6	-9.8	-2.8
Horizontal Pol. (max.)	2.4	4.1	1.1
Horizontal Pol. (avg.)	-3.7	-3.1	-5.2
Total gain (max.)	2.4	4.1	1.6
Total gain (avg.)	-3.6	-2.8	-1.6

Return loss

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REVISION HISTORY

Revision	Date	Description
Version 1	Dec. 30, 2021	- New issue.

Mouser Electronics

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