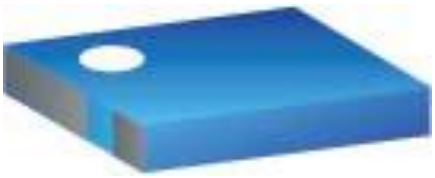
Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 8868 DECT Chip Antenna

PART NUMBER: ANT8868LL00R1880A



Features:

- Size : 8.8x6.8x0.9 mm
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- DECT cordless telephone

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
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Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
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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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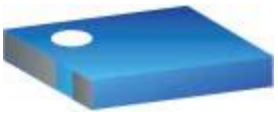
ELECTRICAL SPECIFICATIONS

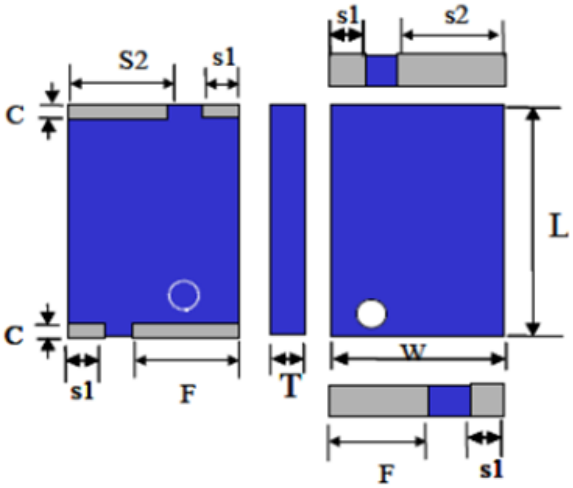
Working Frequency	1.88-2.0 GHz
Bandwidth	220 MHz(Typ.)
Return Loss	10.0 dB Min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	6.13 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	8.80 ±0.20
W (mm)	6.80 ±0.20
T (mm)	0.90 ±0.20
F (mm)	4.30 ±0.20
C (mm)	0.50 ±0.30
S1 (mm)	1.30 ±0.20
S2 (mm)	4.30 ±0.20





Terminal name	Function
S1	Soldering Point
S2	Soldering Point
F	Feeding Point

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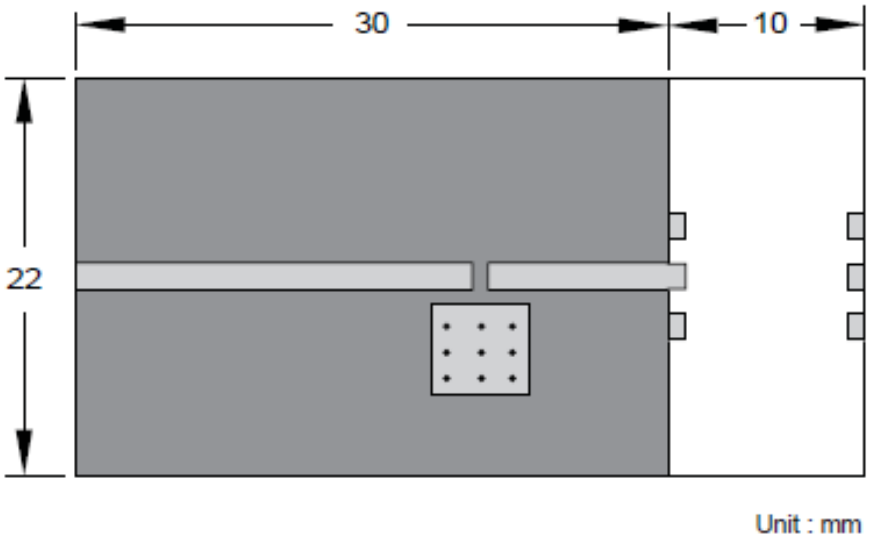
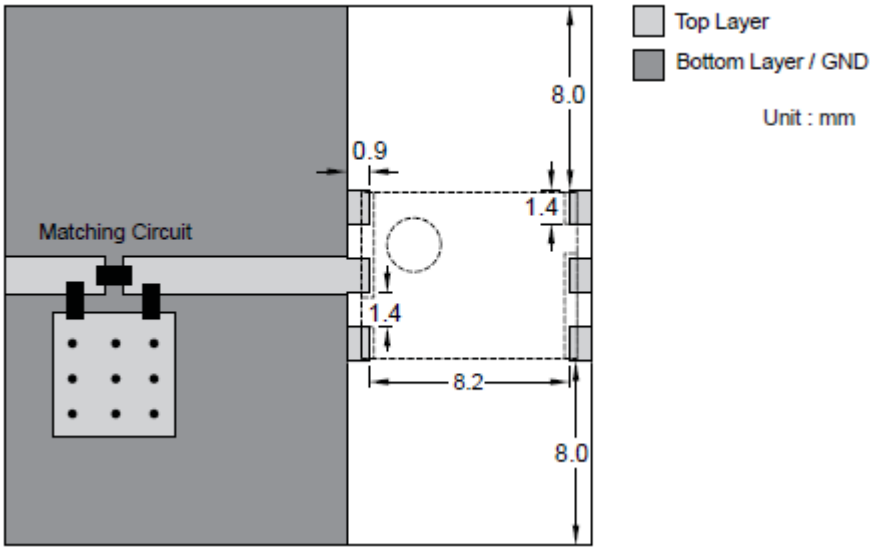
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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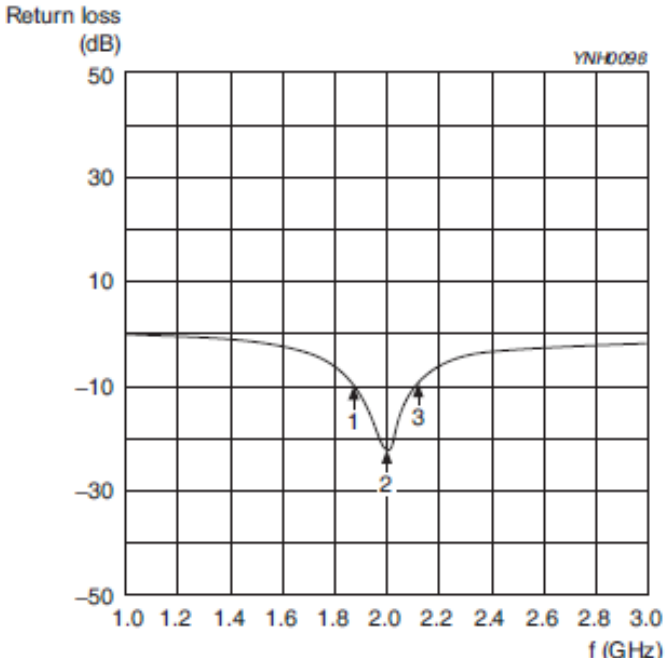
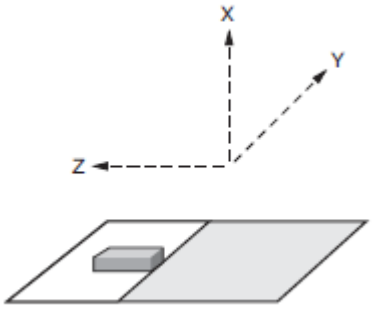
ELECTRICAL PERFORMANCES

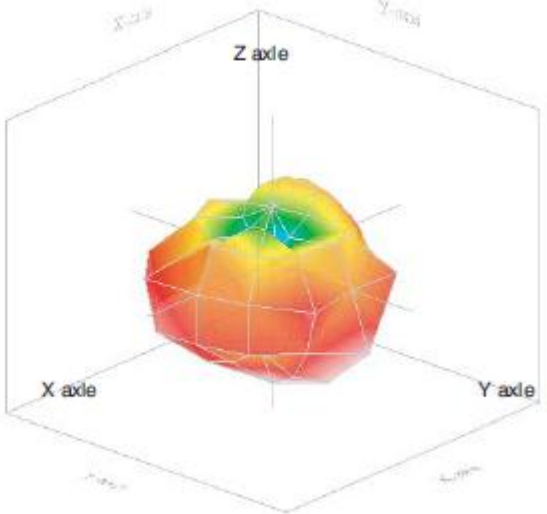


Marker data
1. 1.88GHz, -10dB
2. 2.00GHz, -22.4dB
3. 2.1GHz, -10dB

Return loss



Evaluation board and XYZ direction



Frequency = 1990 MHz
Max gain = 6.13 dBi, at (150,240)
MEG (mean effective gain)= 0.28 dBi
Directivity (dB) = 7.39
Efficiency = -1.26dB, 74.80 %

Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 15, 2020	- New issue