

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

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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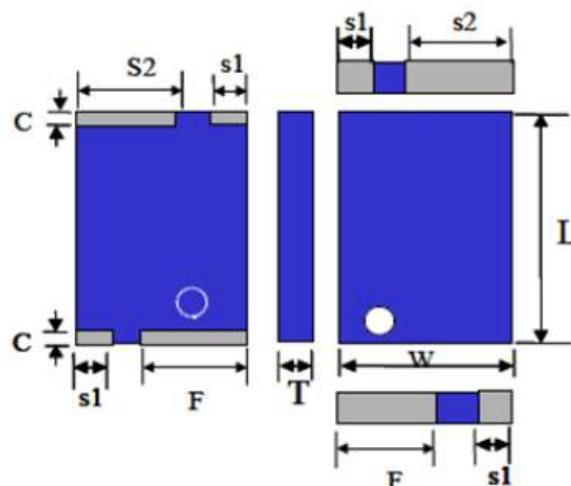
ELECTRICAL SPECIFICATIONS

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 °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

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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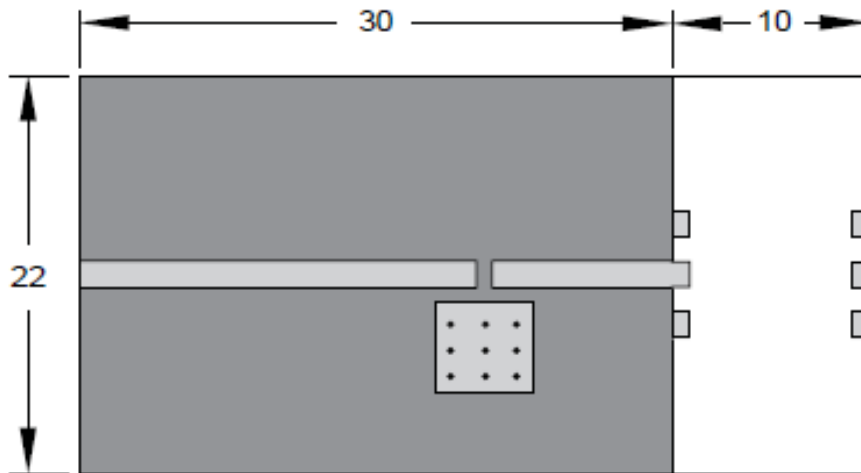
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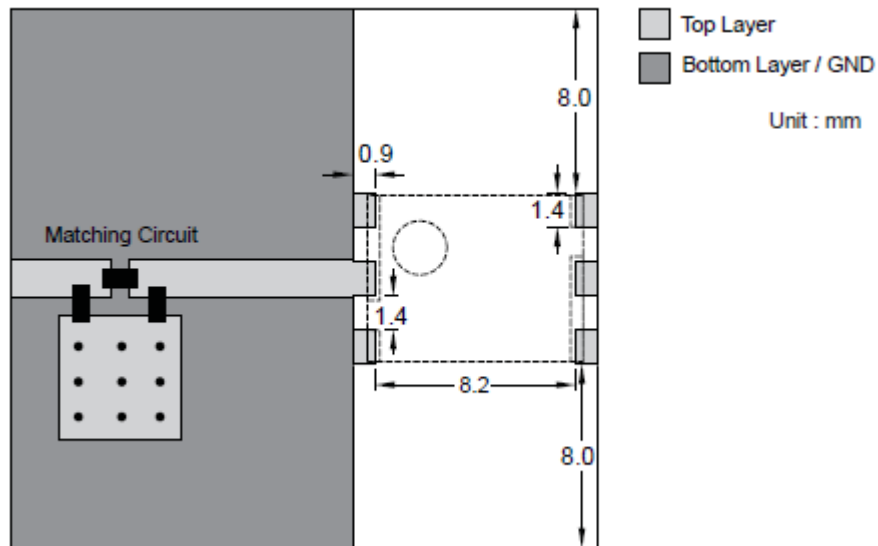
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REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Unit : mm

Details of soldering Pad

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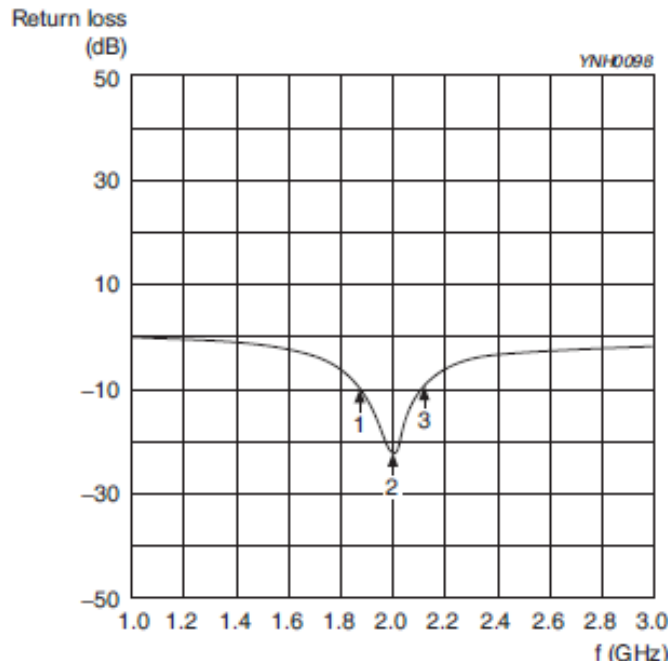
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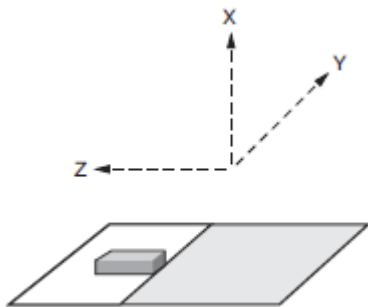
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ELECTRICAL PERFORMANCES

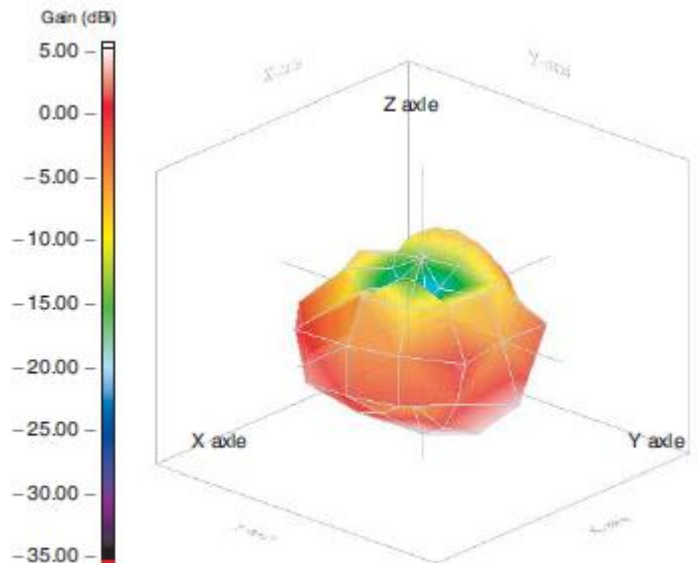


Marker data
 1. 1.88GHz, -10dB
 2. 2.00GHz, -22.4dB
 3. 2.1GHz, -10dB

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

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