

**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**

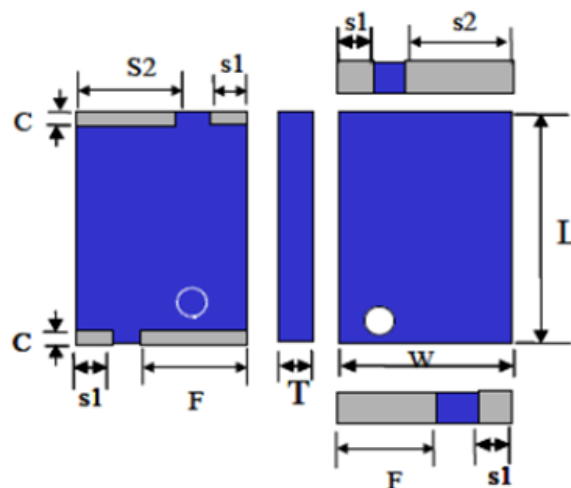
<b>Working Frequency</b>	1.88-2.0 GHz
<b>Bandwidth</b>	220 MHz(Typ.)
<b>Return Loss</b>	10.0 dB Min.
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	6.13 dBi(Typ.)
<b>Impedance</b>	50 Ω
<b>Operating Temperature</b>	- 40~105 °C
<b>Maximum Power</b>	1 W
<b>Termination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

NOTE

1. The specification is defined on Pulse evaluation board

**MECHANICAL DRAWING**

	<b>Dimension</b>
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



<b>Terminal name</b>	<b>Function</b>
S1	Soldering Point
S2	Soldering Point
F	Feeding Point

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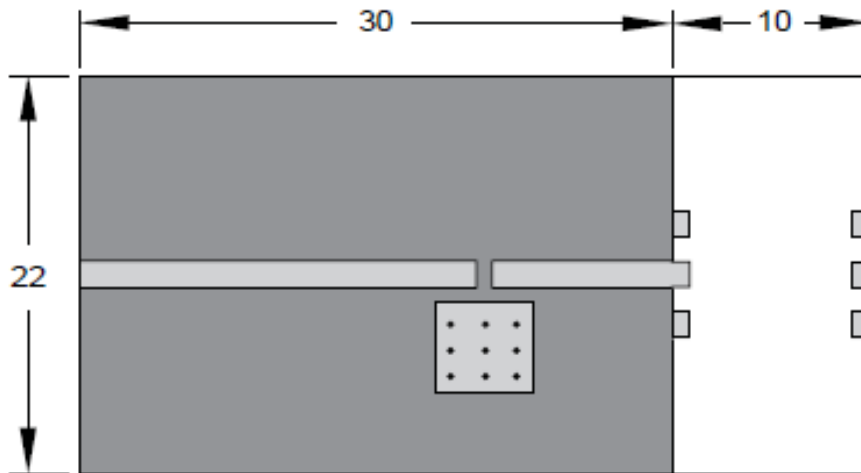
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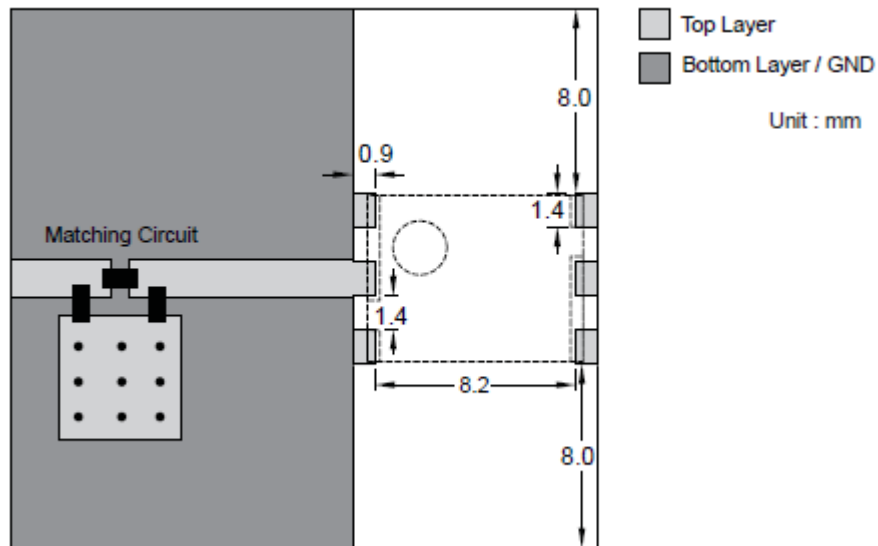
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**REFERENCE DESIGN OF EVALUATION BOARD**



Unit : mm

Outlook and dimension of evaluation board



Unit : mm

Details of soldering Pad

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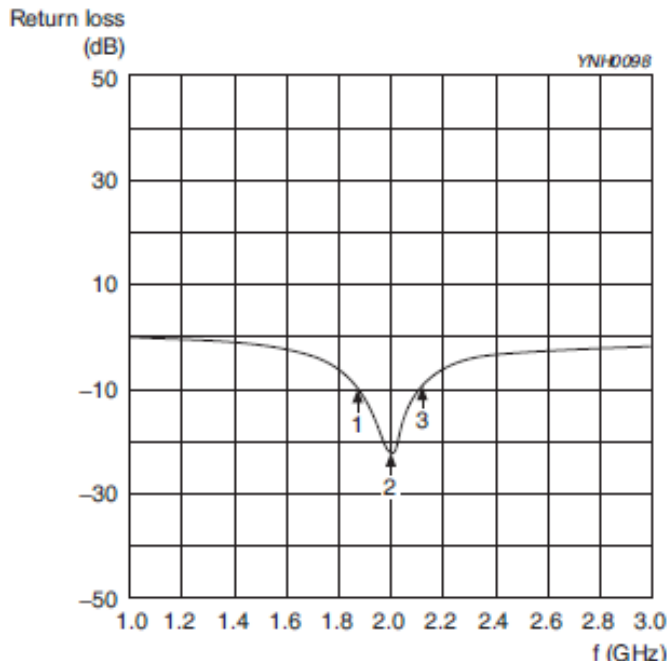
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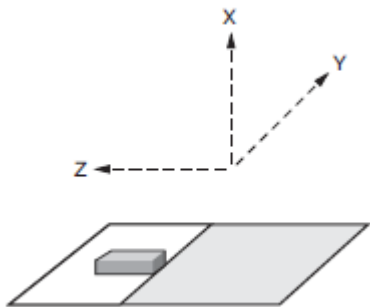
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**ELECTRICAL PERFORMANCES**

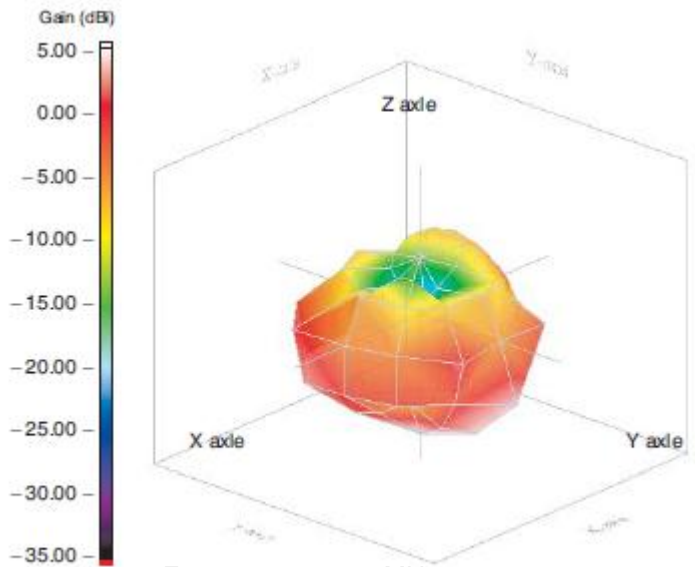


Marker data  
 1. 1.88GHz, -10dB  
 2. 2.00GHz, -22.4dB  
 3. 2.1GHz, -10dB

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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