

Description: 3216 UWB 6.5-8GHz Chip Antenna

PART NUMBER: ANT3216LL00R6580A

Features:

- Size : 3.2x1.6x1.2 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

Applications:

- Smart tag
- Indoor navigation
- Access management
- RTLS B2B
- UWB group Channel 5 (6.5GHz) to Channel 9 (8GHz)

ELECTRICAL SPECIFICATIONS

Working Frequency	6200 ~ 8200MHz
Bandwidth	2000 MHz
Return Loss	10 dB (Min.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2 dBi (Min.)
Impedance	50 Ω
Operating Temperature	- 30 ~ 85 °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

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

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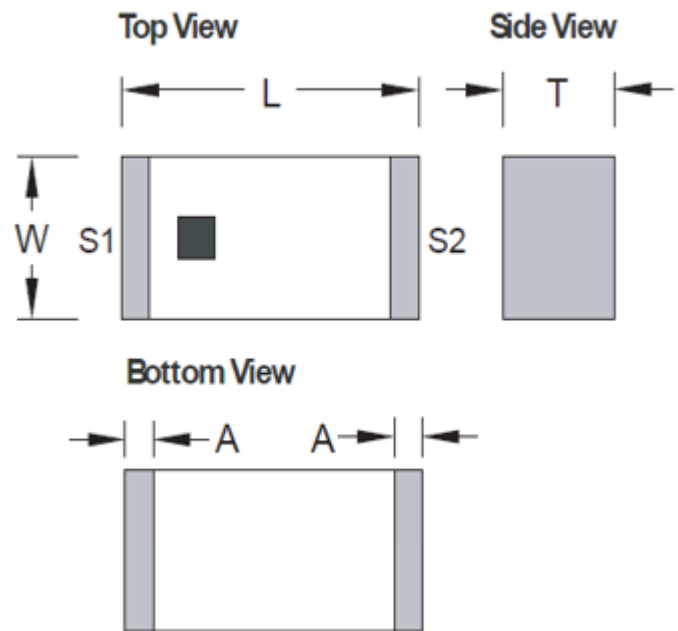
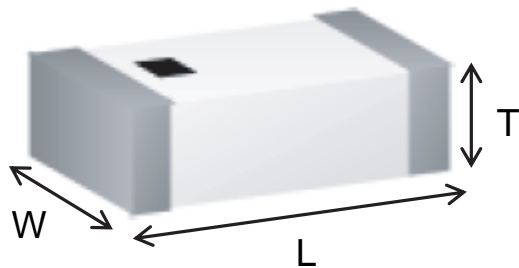
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MECHANICAL DRAWING



	Dimension
L (mm)	3.20 ±0.20
W (mm)	1.60 ±0.15
T (mm)	1.20 ±0.15
A (mm)	0.40 ±0.25

Terminal name	Function
S1	Feeding Point
S2	Soldering Point

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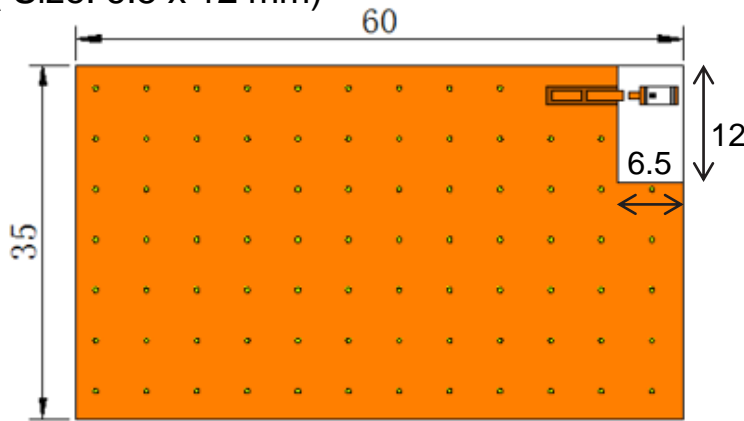


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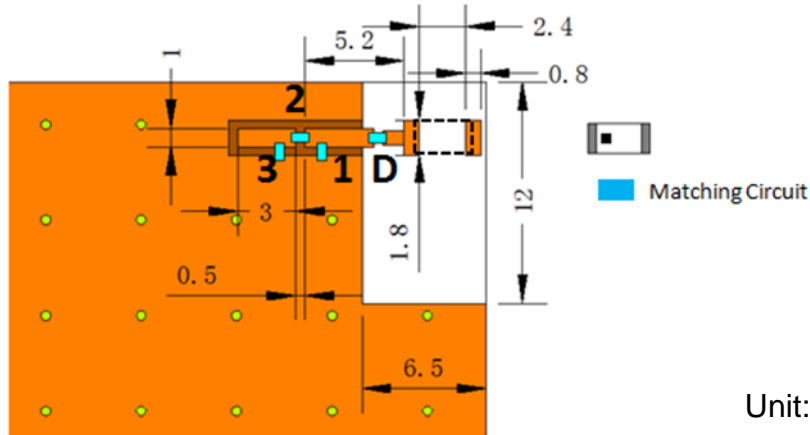
LAYOUT OF EVALUATION BOARD

- Clearance Definition:
(Size: 6.5 x 12 mm)



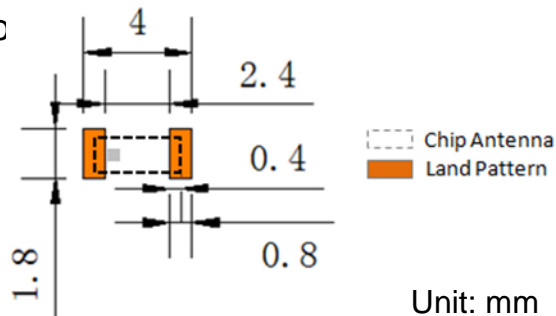
Unit: mm

- Reference design of Matching circuit



Unit: mm

- Soldering Pads Dimension and Footprint



Unit: mm

Outlook and dimension of evaluation board

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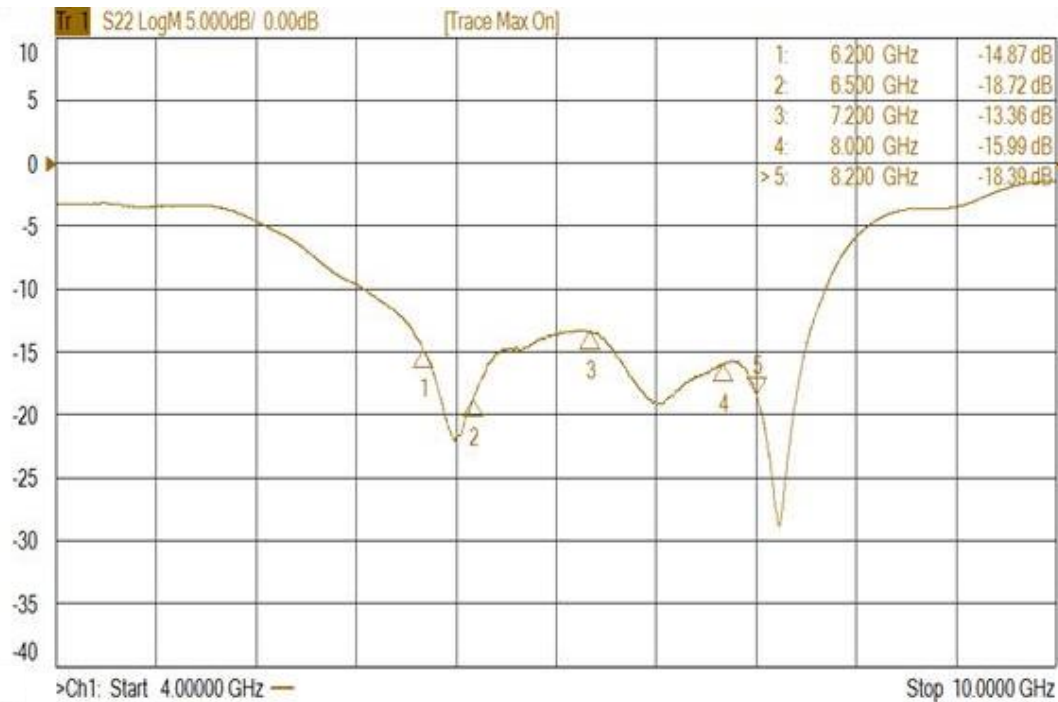
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ELECTRICAL PERFORMANCES



Maker data

- 1. 6.2GHz, -14.87dB
- 2. 6.5GHz, -18.72dB
- 3. 7.2GHz, -13.38dB
- 4. 8.0GHz, -15.99dB
- 5. 8.2GHz, -18.39dB

Return loss

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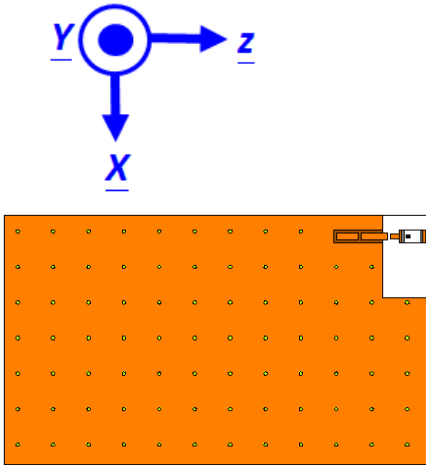
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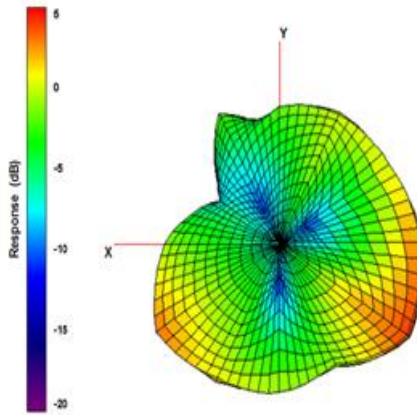
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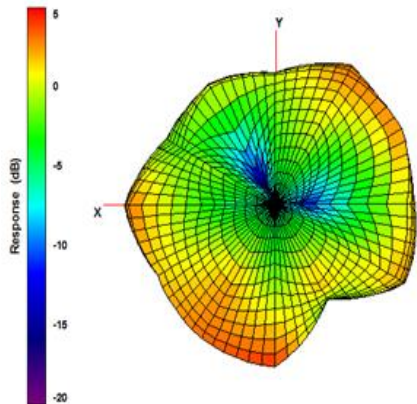
ELECTRICAL PERFORMANCES



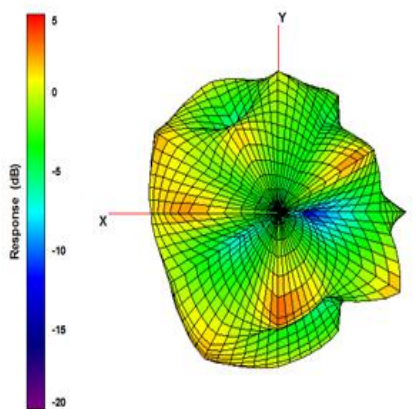
Evaluation board and XYZ direction



Frequency = 6500MHz
Max. Gain = 3.0 dBi
MEG (mean effective gain) = -1.7 dBi
Efficiency = 67.9%



Frequency = 7200MHz
Max. Gain = 5.2 dBi
MEG (mean effective gain) = -1.3 dBi
Efficiency = 74.9%



Frequency = 8000MHz
Max. Gain = 1.7 dBi
MEG (mean effective gain) = -3.1 dBi
Efficiency = 48.7%

Radiation pattern

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REVISION HISTORY

Revision	Date	Description
Version 1	Aug. 5, 2021	- New issue.

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