

**Description: 3216 2.4-2.5GHz Chip Antenna**

**PART NUMBER: ANT3216A063R2455A**

**Features:**

- Size : 3.05x1.55x0.55 mm
- Omni-directional Radiation
- Tape & reel automatic mounting
- Dual-band design
- Reflow process compatible
- RoHS compliant

**Applications:**

- 2.4&5GHz WiFi device
- ISM band equipment

**ELECTRICAL SPECIFICATIONS**

<b>Working Frequency</b>	2.45G / 5.5 GHz
<b>Bandwidth</b>	90 / 700 MHz(Typ.)
<b>Return Loss</b>	10 dBi min.
<b>Polarization</b>	Linear
<b>Azimuth Beamwidth</b>	Omni-directional
<b>Peak Gain</b>	1.59 / 2.23 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

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

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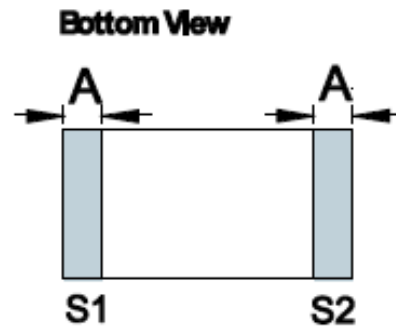
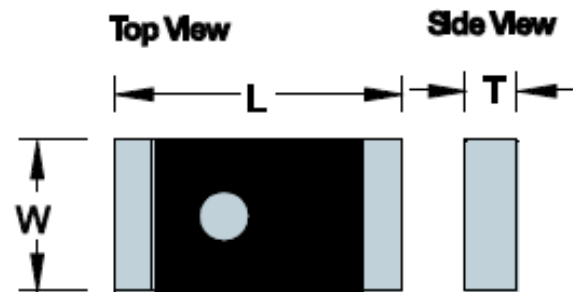
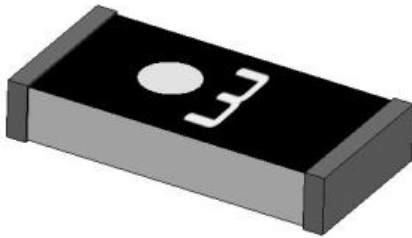
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**MECHANICAL DRAWING**



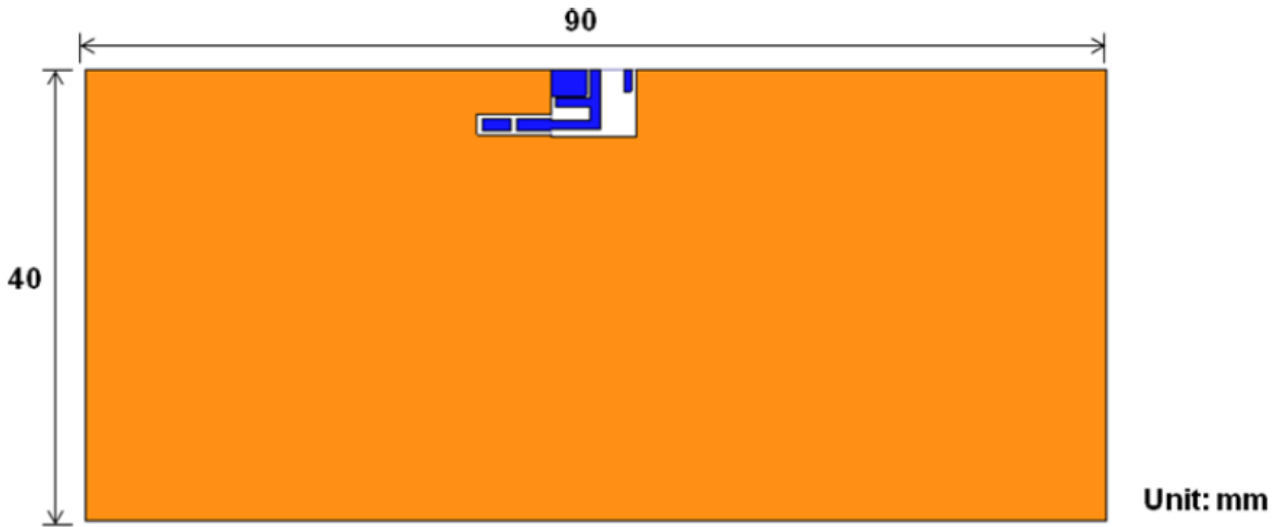
	<b>Dimension</b>
L (mm)	3.05 ±0.10
W (mm)	1.55 ±0.10
T (mm)	0.55 ±0.10
A (mm)	0.40 ±0.10

<b>Terminal name</b>	<b>Function</b>
S1	Feeding Point
S2	GND

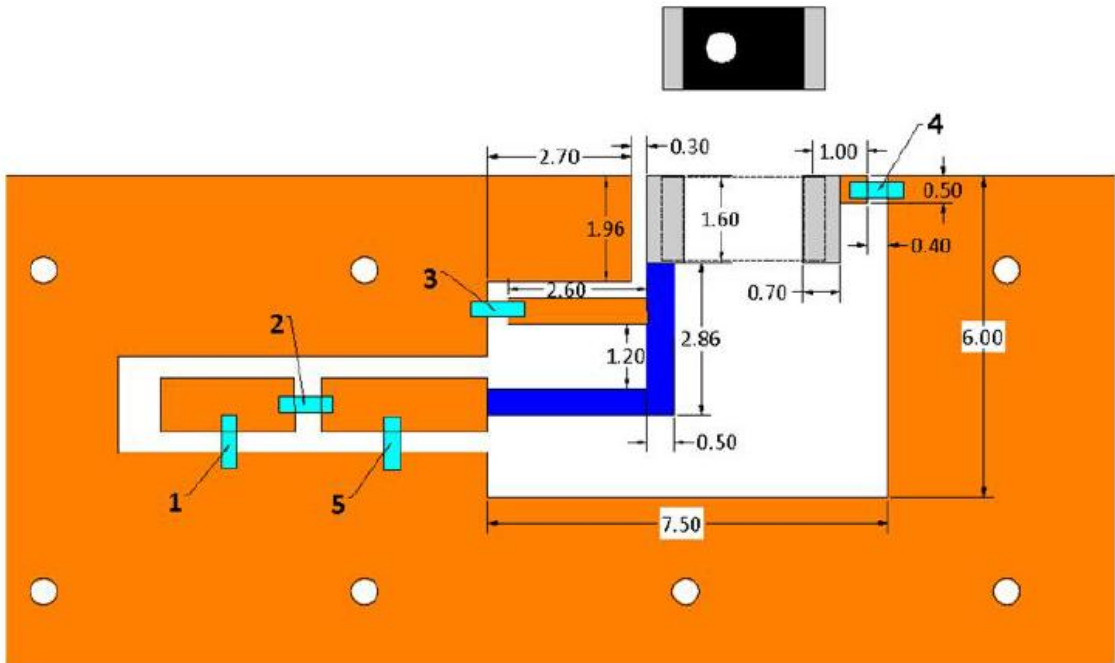
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**REFERENCE DESIGN OF EVALUATION BOARD**



Outlook and dimension of evaluation board



Dimension of footprint

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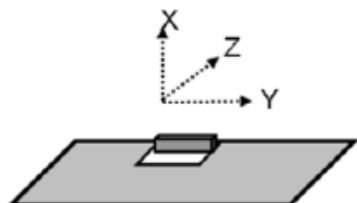
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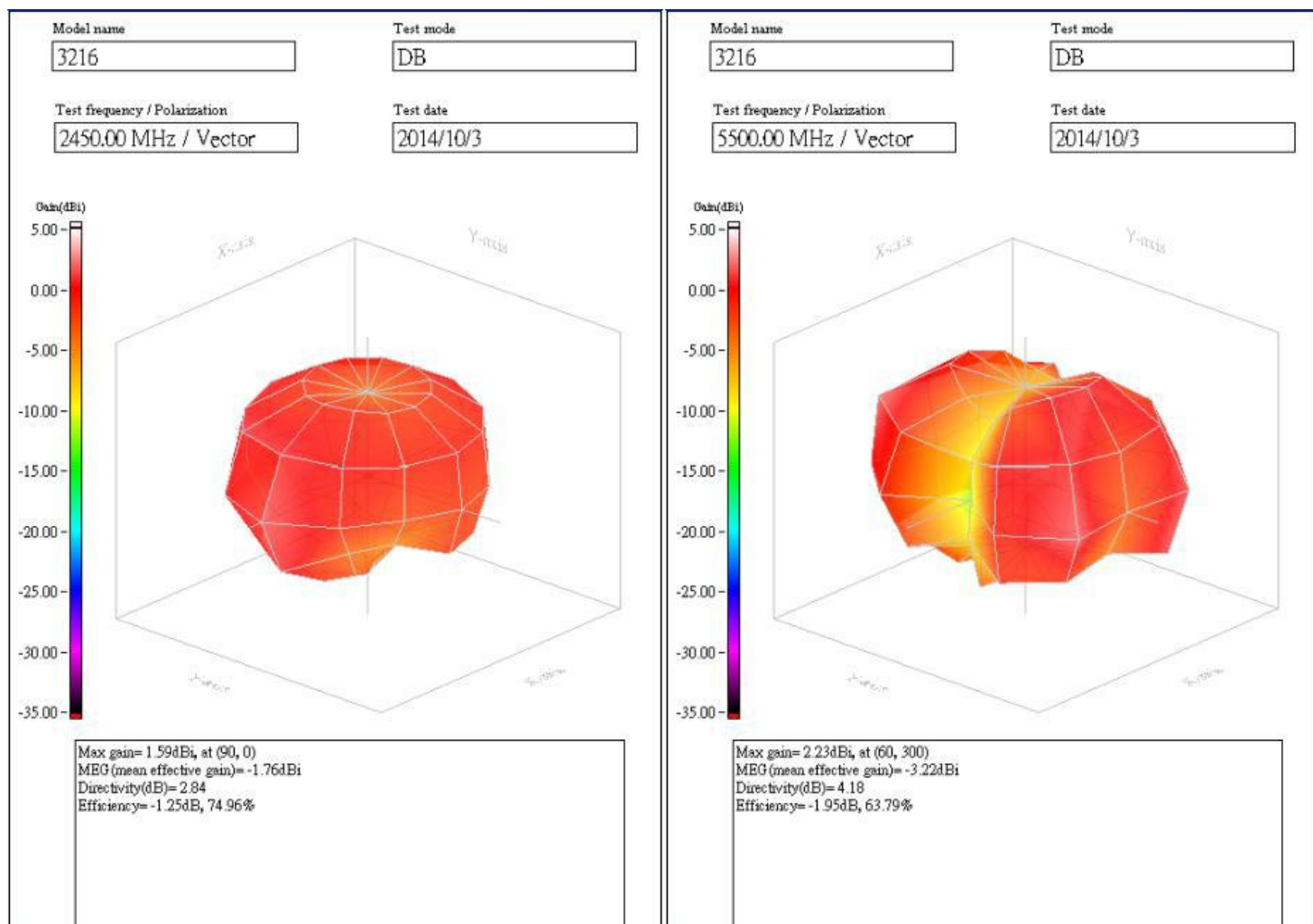
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REFERENCE DESIGN OF EVALUATION BOARD



Evaluation board and XYZ direction

Details of soldering pad



Radiation pattern

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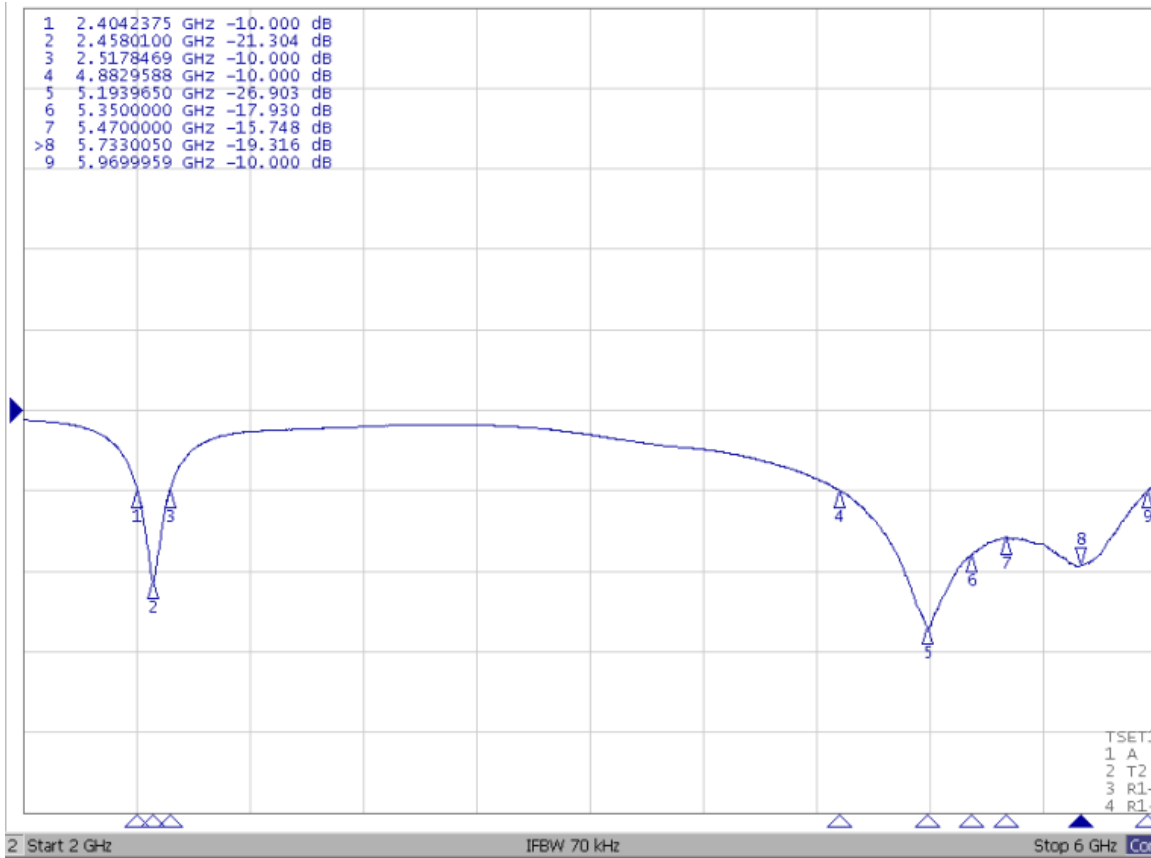
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**ELECTRICAL PERFORMANCES**



- Maker data
- 1. 2.40GHz, -10.000dB
  - 2. 2.45GHz, -21.304dB
  - 3. 2.51GHz, -10.000dB
  - 4. 4.88GHz, -10.000dB
  - 5. 5.19GHz, -26.903dB
  - 6. 5.35GHz, -17.930dB
  - 7. 5.47GHz, -15.748dB
  - 8. 5.73GHz, -19.316dB
  - 9. 5.97GHz, -10.000dB

Return loss

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### REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 19, 2020	- New issue

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