

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

Working Frequency	2.45G / 5.5 GHz
Bandwidth	90 / 700 MHz(Typ.)
Return Loss	10 dBi min.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.59 / 2.23 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$, 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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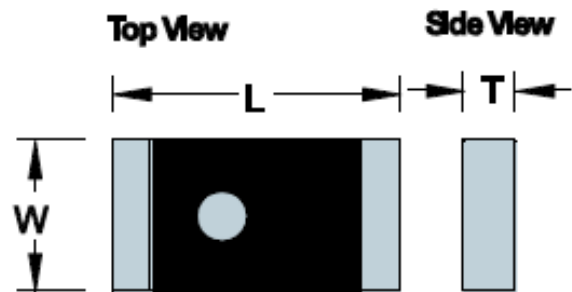
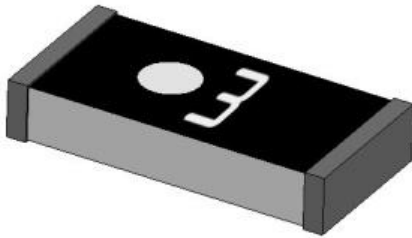
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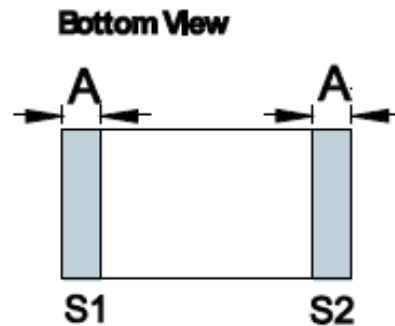
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MECHANICAL DRAWING



	Dimension
L (mm)	3.05 ± 0.10
W (mm)	1.55 ± 0.10
T (mm)	0.55 ± 0.10
A (mm)	0.40 ± 0.10

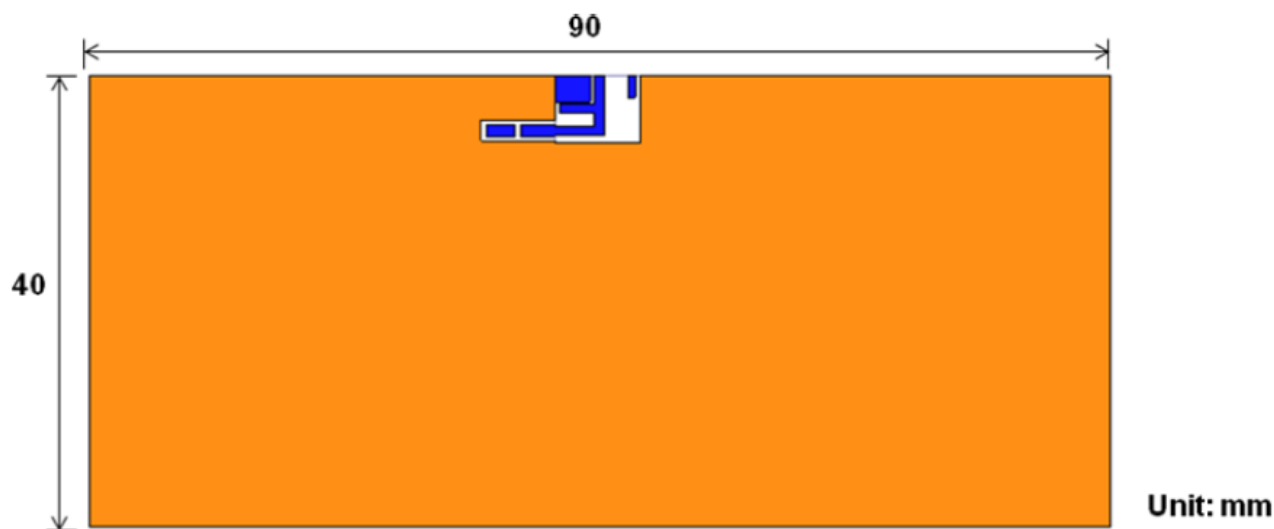


Terminal name	Function
S1	Feeding Point
S2	GND

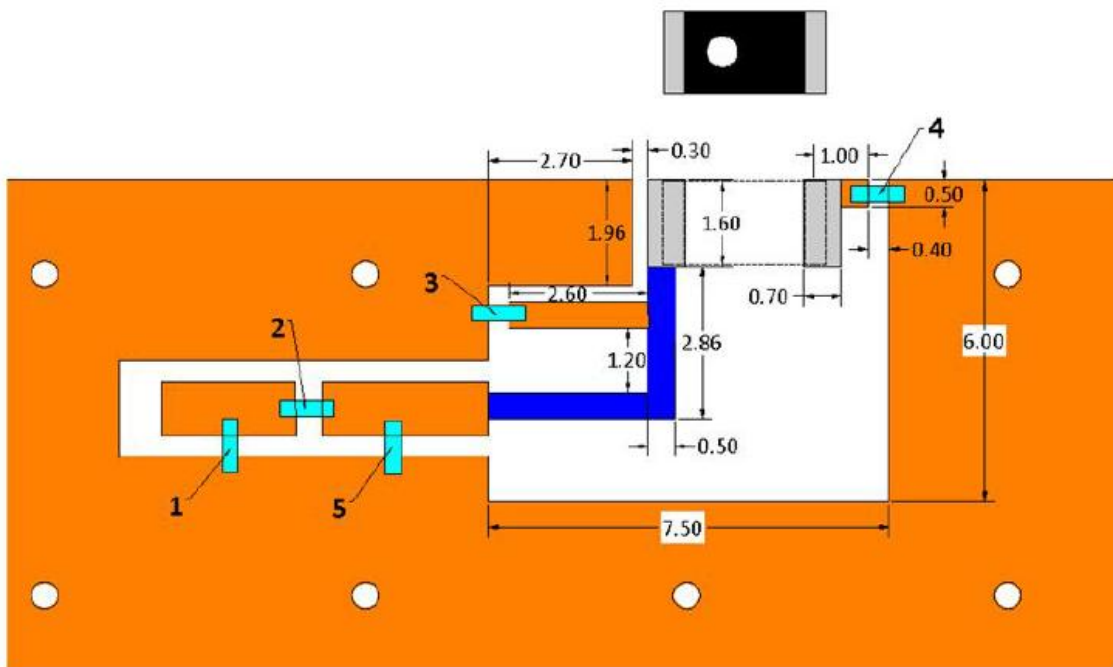
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REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Dimension of footprint

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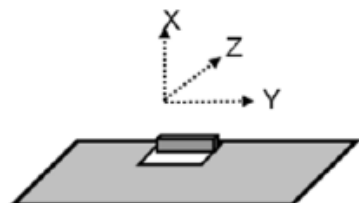
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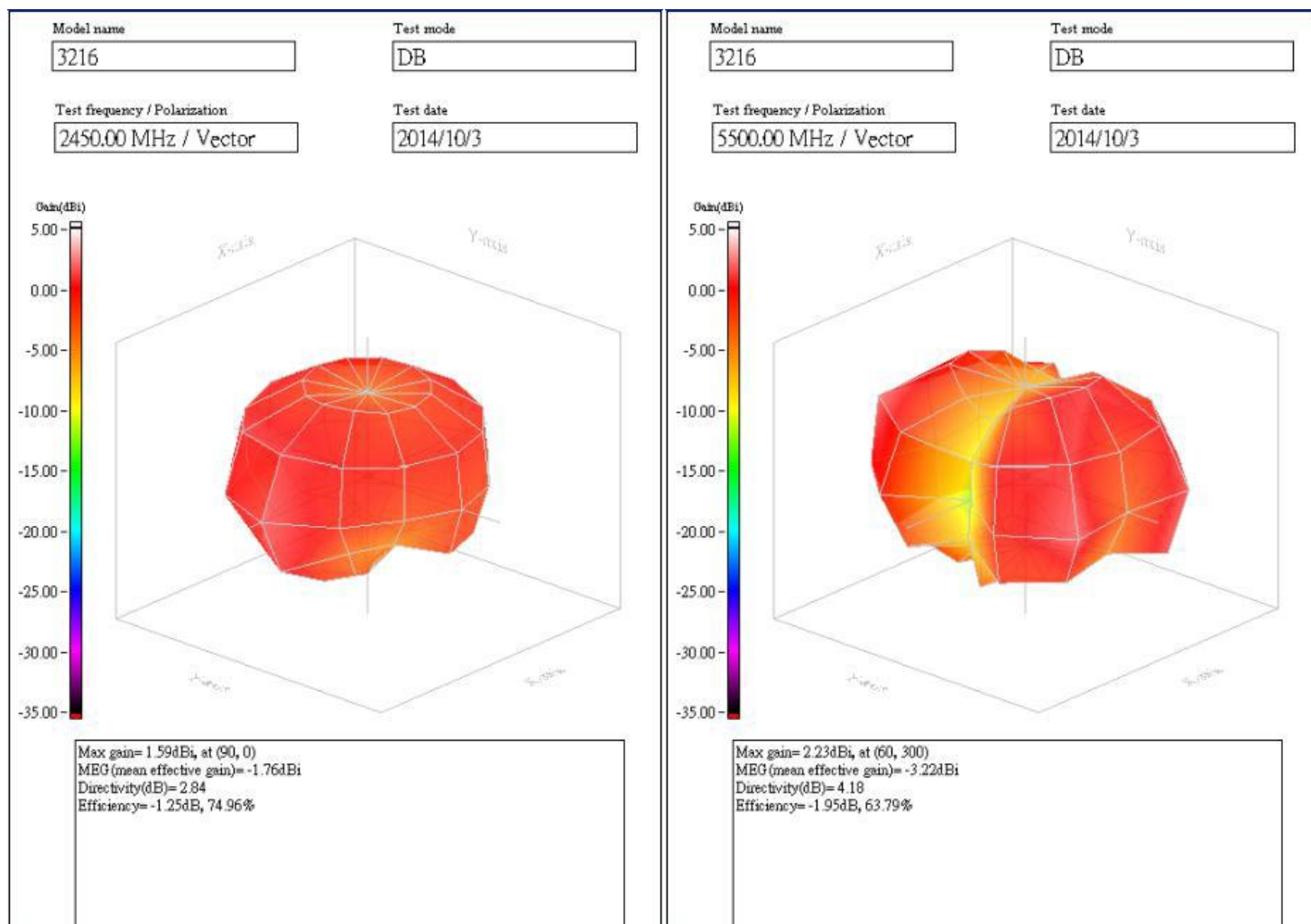
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REFERENCE DESIGN OF EVALUATION BOARD



Evaluation board and XYZ direction

Details of soldering pad



Radiation pattern

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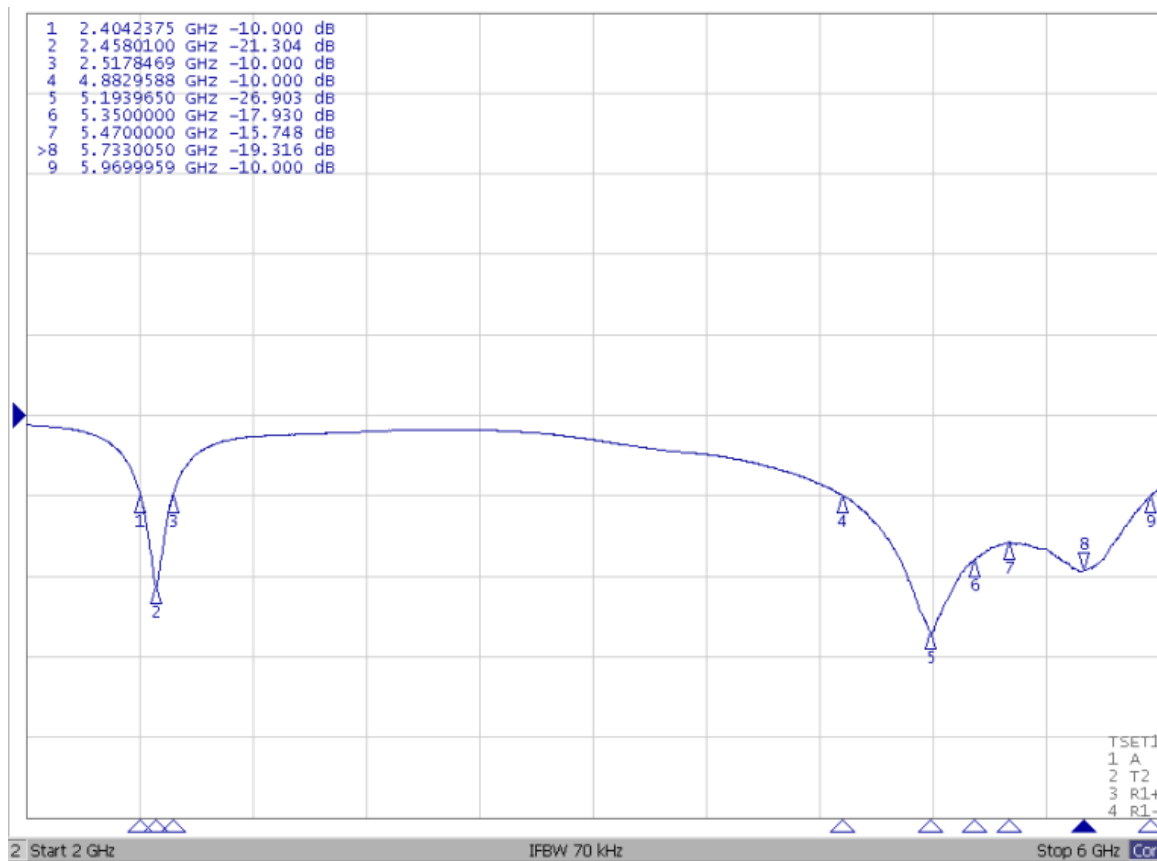
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ELECTRICAL PERFORMANCES



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