

Description: 3216 2.4-2.5GHz Chip Antenna**PART NUMBER:** ANT3216A063R2400A**Features:**

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

Applications:

- 2.4GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

ELECTRICAL SPECIFICATIONS

Working Frequency	2.45 GHz
Bandwidth	200 MHz(Typ.)
Return Loss	6.5 dB Max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	1.69 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

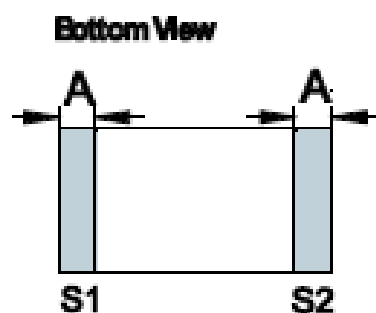
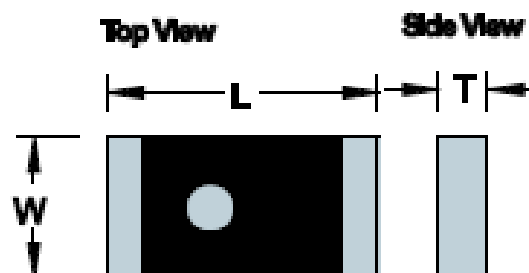
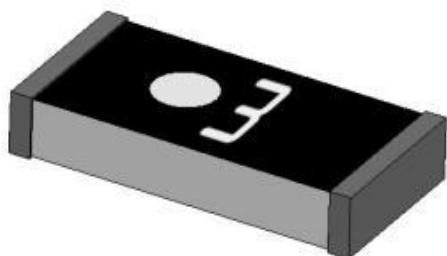
1. The specification is defined on Pulse evaluation board



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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

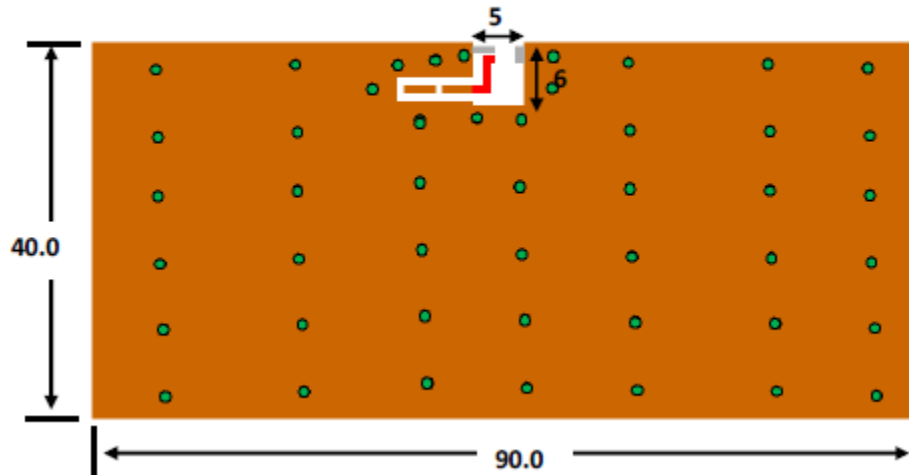
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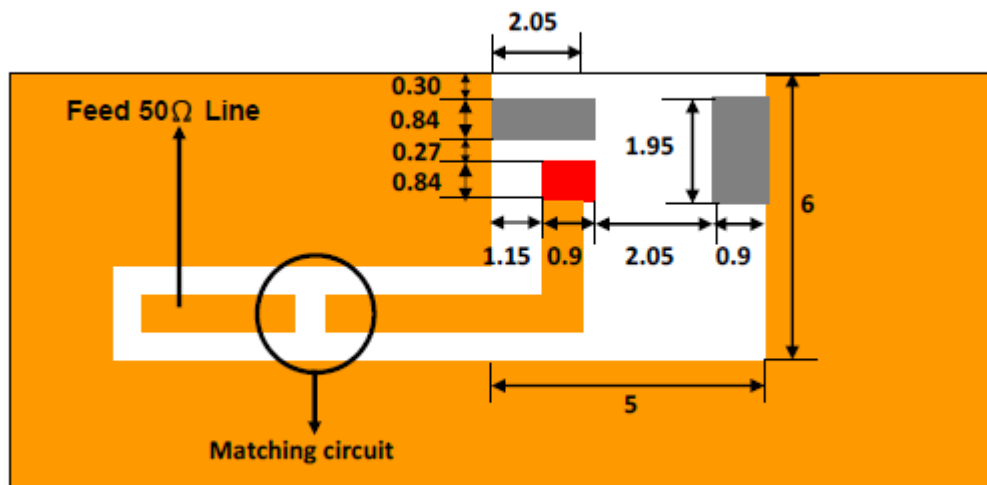
REFERENCE DESIGN OF EVALUATION BOARD

■ Clearance Definition:

□ (Size = 6.0 * 5.0 mm)



■ Soldering Pads Dimension and Footprint :



■ Footprint for Feeding

■ Footprint (connect to ground)

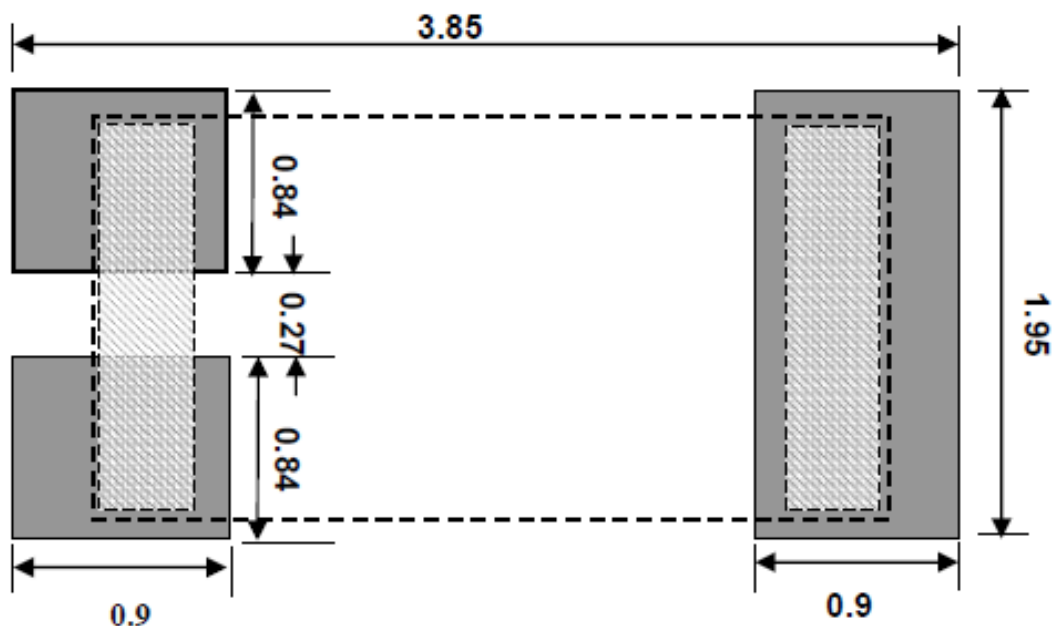
Unit:mm

Outlook and dimension of evaluation board

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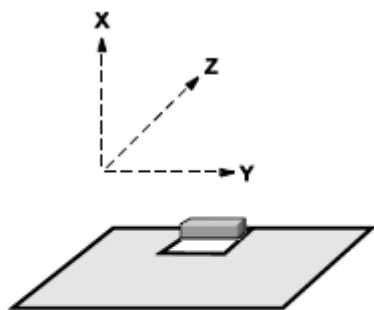
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REFERENCE DESIGN OF EVALUATION BOARD



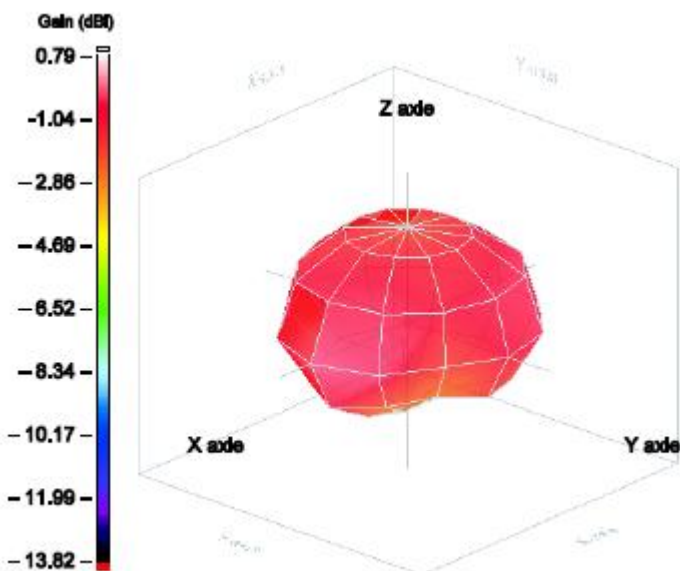
Tol : ± 0.1
Unit : mm

Dimension of footprint



Evaluation board and XYZ direction

Radiation pattern



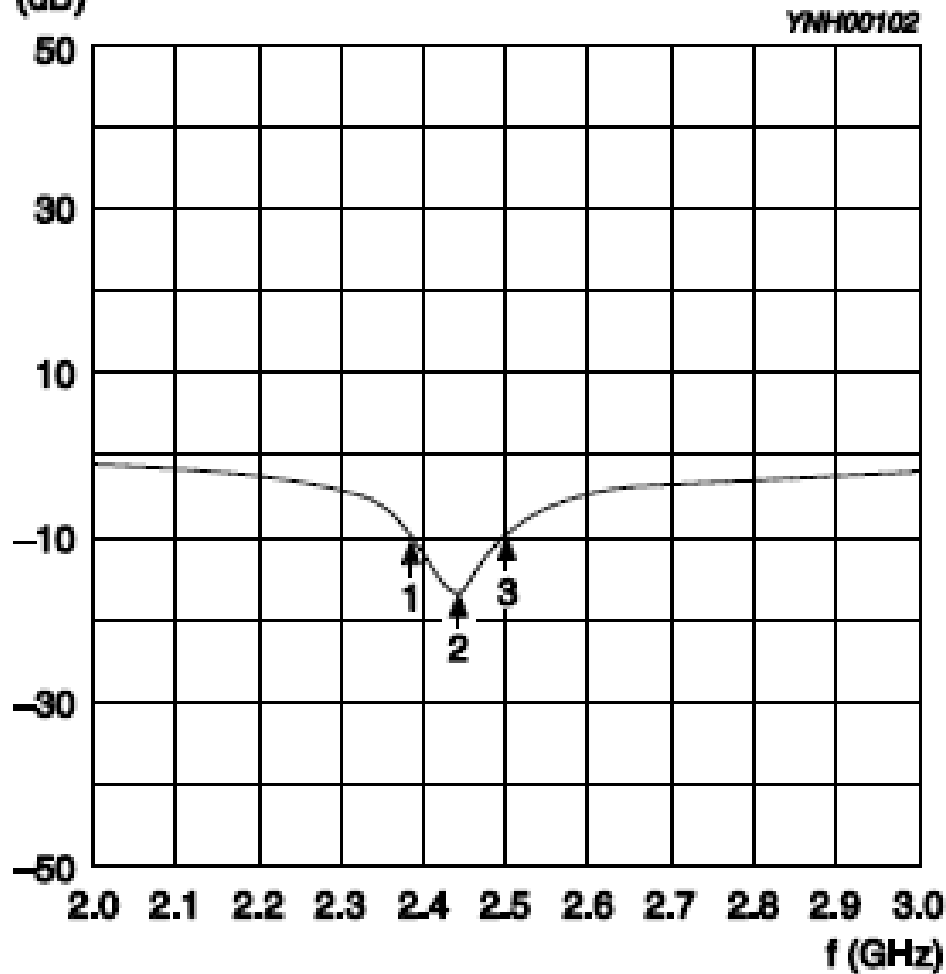
Frequency = 2.45 GHz
Max gain = 1.69 dBi
MEG (mean effective gain) = -1.00 dBi
Directivity (dB) = 2.18
Efficiency = -0.49 dB, 89.33%

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ELECTRICAL PERFORMANCES

**Return loss
(dB)**



Maker data

1. 2.39GHz, -10.00dB
2. 2.45GHz, -16.48dB
3. 2.50GHz, -10.00dB

Return loss

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 20, 2020	- New issue

Mouser Electronics

Authorized Distributor

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Pulse:

[ANT3216A063R2400A](#)