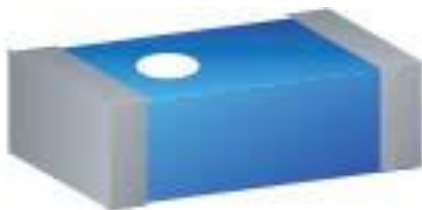


Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL00R2400A

Features:

- Size : 3.2x1.6x1.2 mm
- Working Frequency : 2.4~2.5GHz
- Omni-directional Radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant



Applications:

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

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

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Description: 3216 2.4G Chip Antenna
PART NUMBER: ANT3216LL00R2400A
ELECTRICAL SPECIFICATIONS

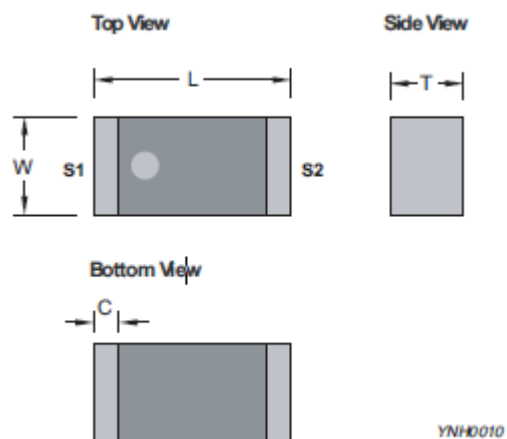
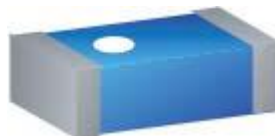
Working Frequency	2.4-2.5 GHz
Bandwidth	160 MHz(Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	5.05 dBi(Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 °C
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260°C , 10sec.

NOTE

1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	3.2 ± 0.15
W (mm)	1.6 ± 0.15
T (mm)	1.2 ± 0.15
C (mm)	0.4 ± 0.20

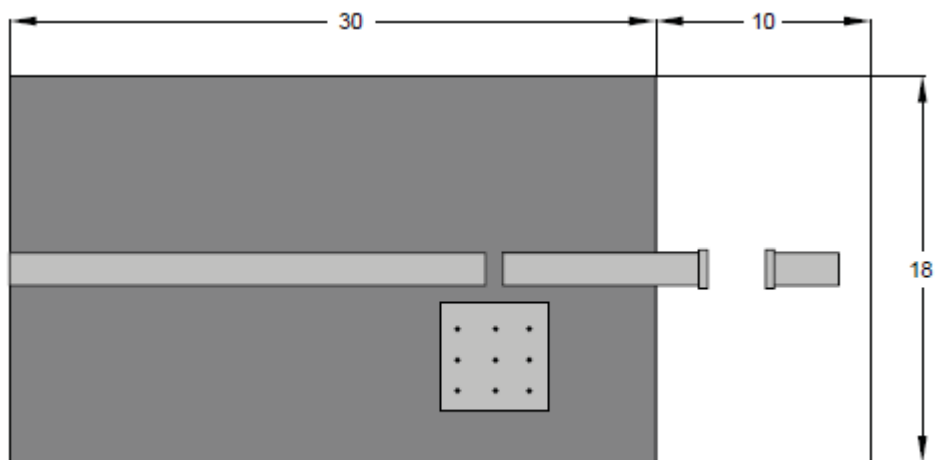


Terminal name	Function
S1	Feeding Point
S2	Soldering Point

Description: 3216 2.4G Chip Antenna

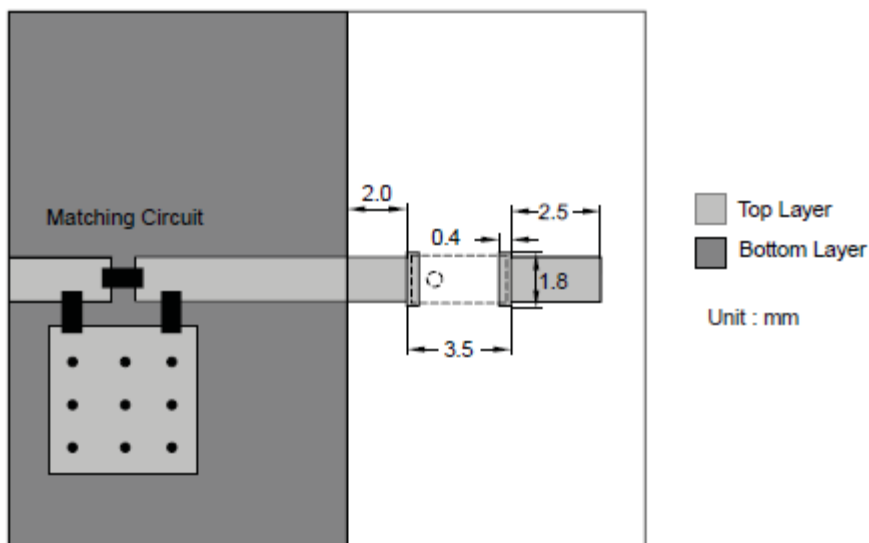
PART NUMBER: ANT3216LL00R2400A

REFERENCE DESIGN OF EVALUATION BOARD



Unit : mm

Outlook and dimension of evaluation board



Top Layer
Bottom Layer

Unit : mm

Details of soldering Pad

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

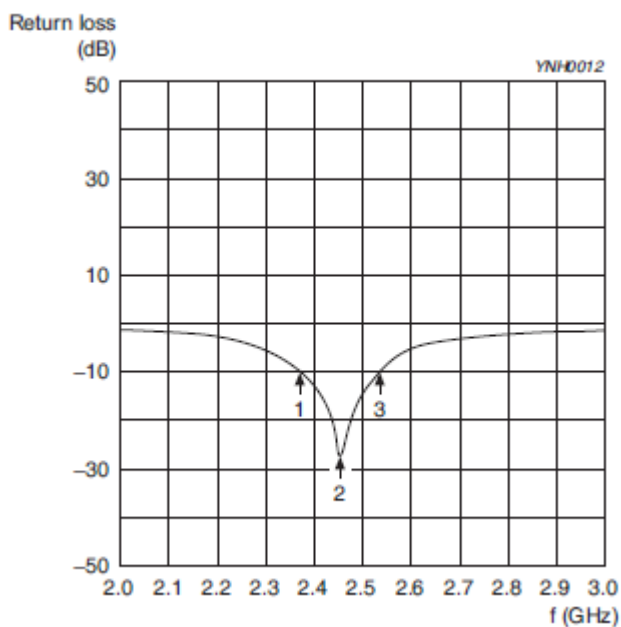
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Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL00R2400A

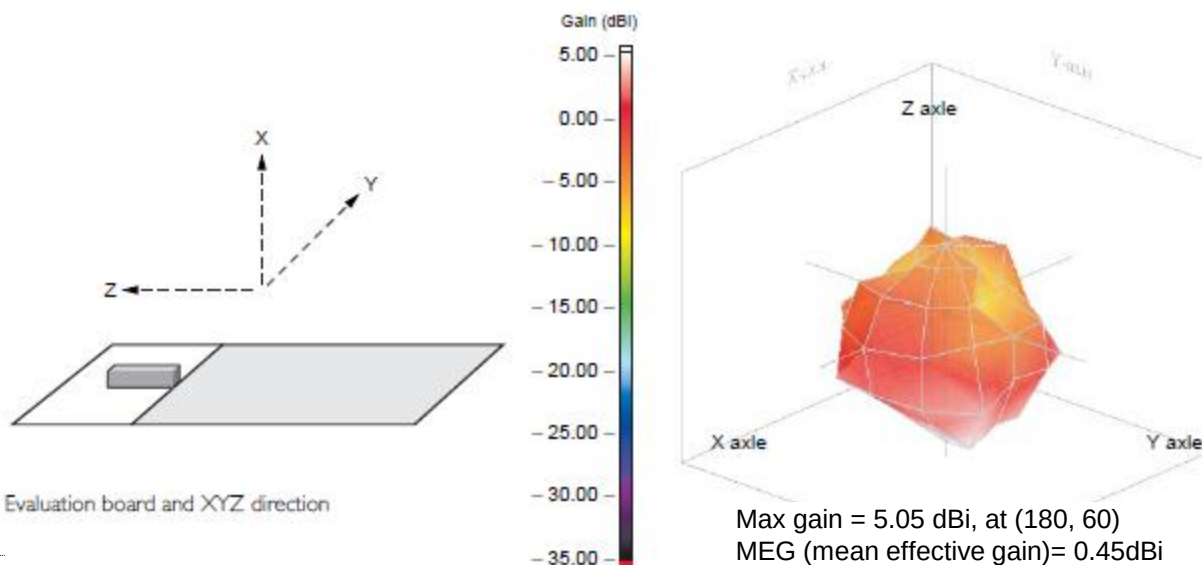
ELECTRICAL PERFORMANCES



Marker data

1. 2.37GHz, -10dB
2. 2.45GHz, -27.3dB
3. 2.53GHz, -10dB

Return loss



Radiation pattern

Max gain = 5.05 dBi, at (180, 60)
MEG (mean effective gain) = 0.45dBi
Directivity (dB) = 7.15
Efficiency = -1.50dB, 70.74%

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Description: 3216 2.4G Chip Antenna

PART NUMBER: ANT3216LL00R2400A

REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 13, 2020	- New issue

Mouser Electronics

Authorized Distributor

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[ANT3216LL00R2400A](#)