

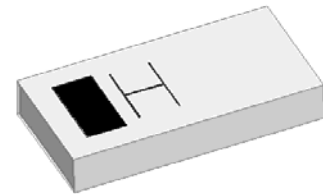
2.4GHz 3216 Chip Antenna: ANT3216R24003KL1

Applications:

WLAN, 802.11b/g, Bluetooth, etc...

Features

SMD, high reliability, ultra compact, Omni-directional...



Part number

ANT 3216 R 2400 3K L1
(1) (2) (3) (4) (5)

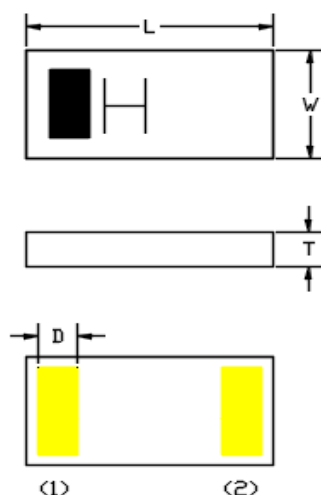
(1) Size Code	3.2x1.6mm
(2) Packing	Tape and reel
(3) Frequency	2.4GHz
(4) Packing Number	3K
(5) Code	L1

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Peak Gain	1.5 dBi (Typ.)
Impedance	50 Ohm
VSWR	2.5 (Max)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C

The specification is defined on EVB.

Dimension and Terminal Configuration



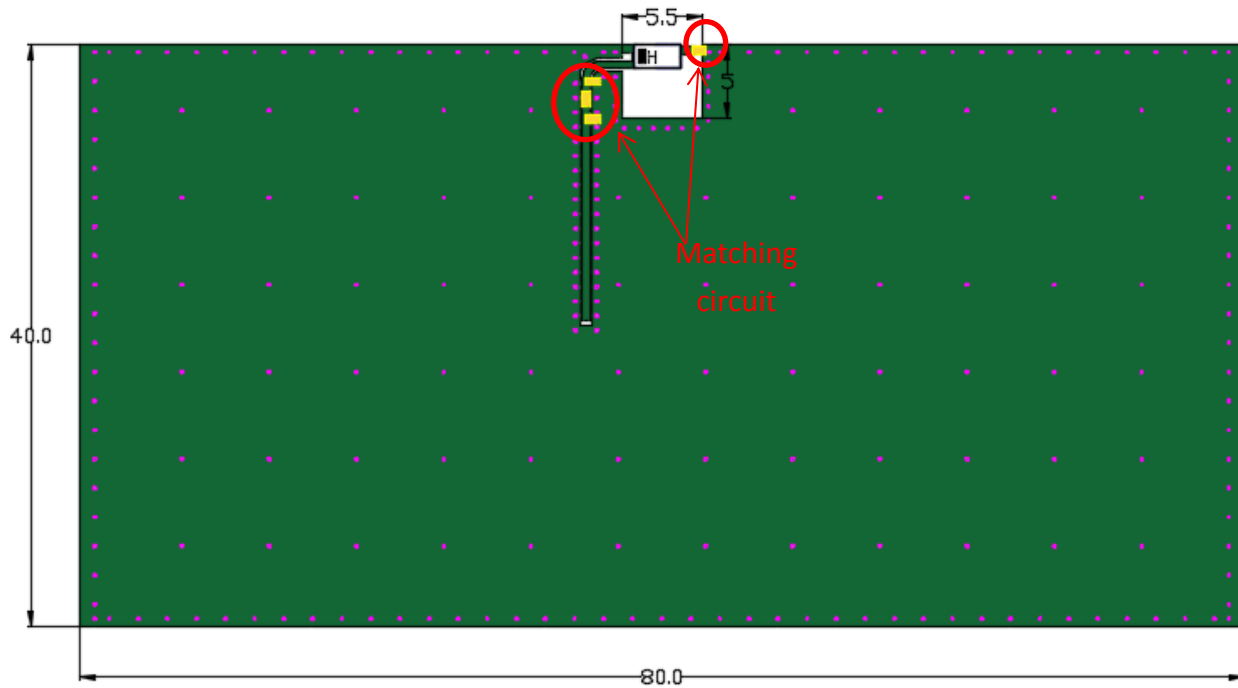
Dimension (mm)	
L	3.20+/-0.15
W	1.60+/-0.15
T	0.55+/-0.10
D	0.50+/-0.15

No.	Terminal Name
1	Feeding
2	Soldering

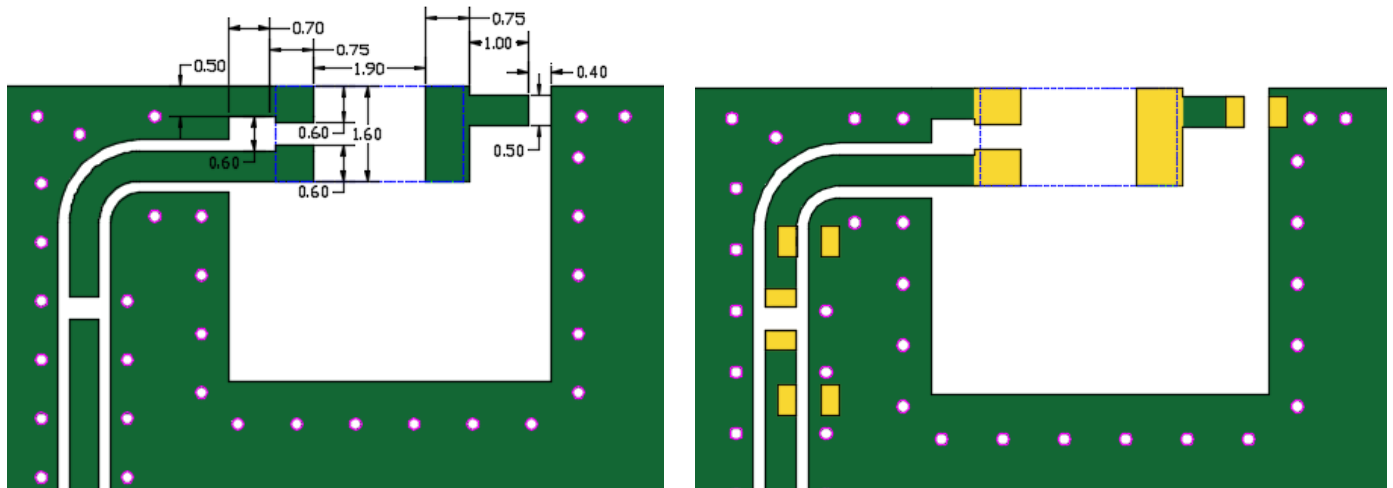
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Evaluation Board Reference

PCB Dimension



Antenna Layout Reference



Unit : mm

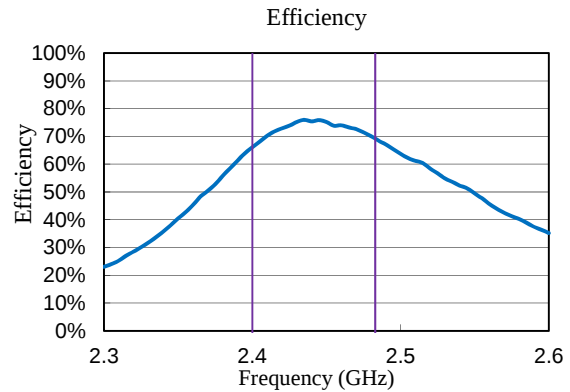
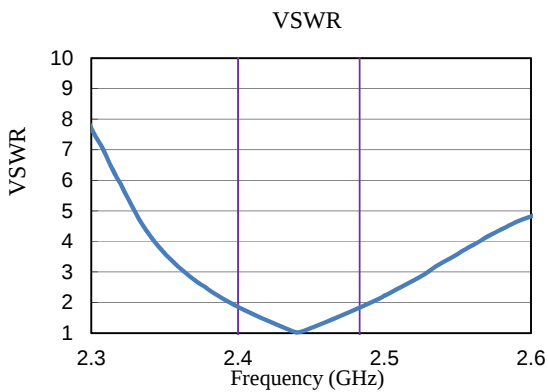
 : Chip Antenna

 : Land Pattern

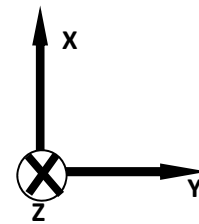
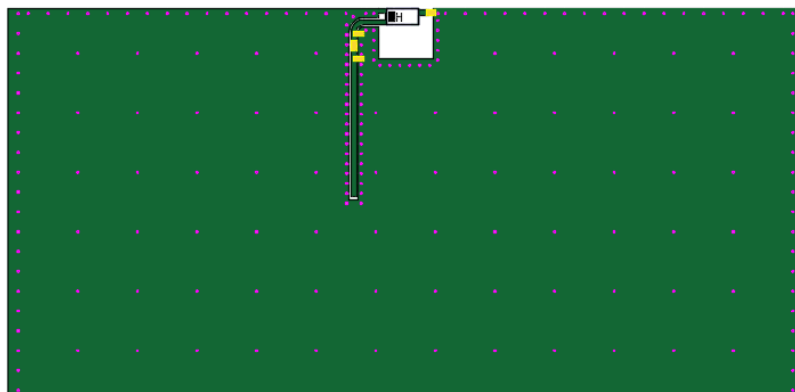
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Electrical Characteristics

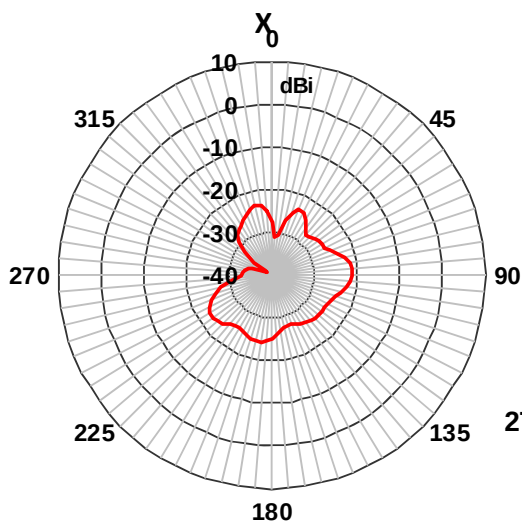
VSWR&Efficiency



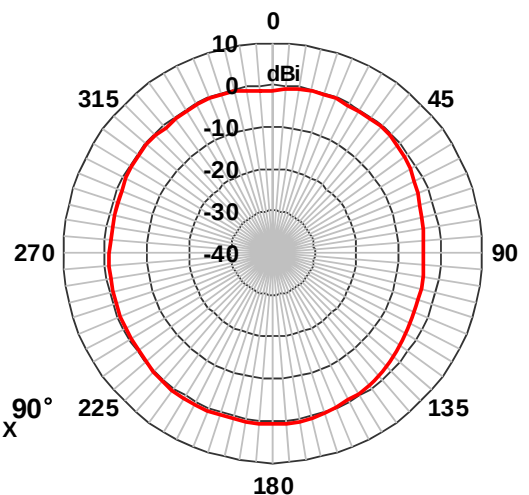
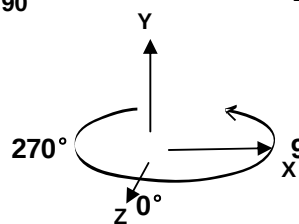
Radiation Pattern



ZX-Plane 2400MHz



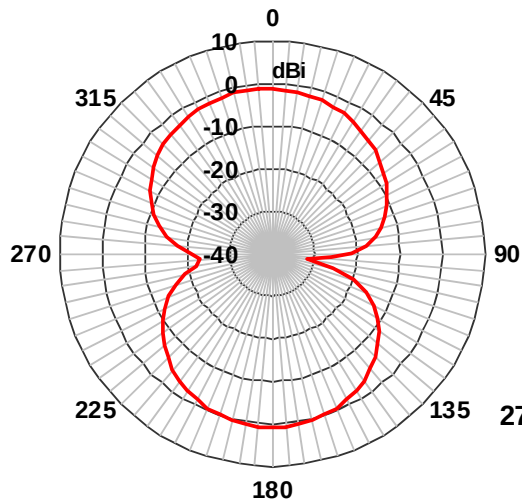
Horizontal Polarization



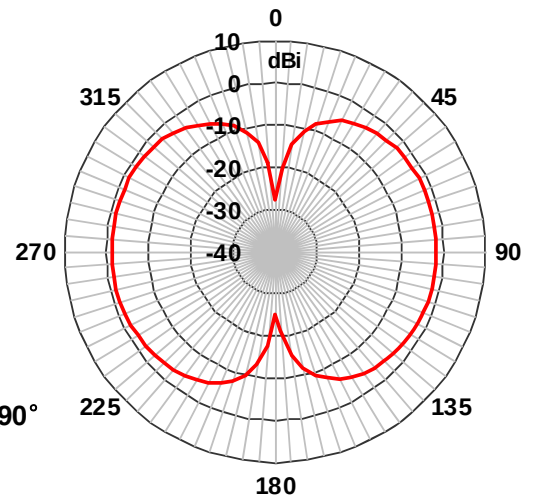
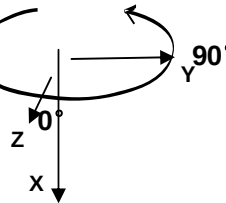
Vertical Polarization

2.4GHz 3216 Chip Antenna: ANT3216R24003KL1

ZY-Plane 2400MHz

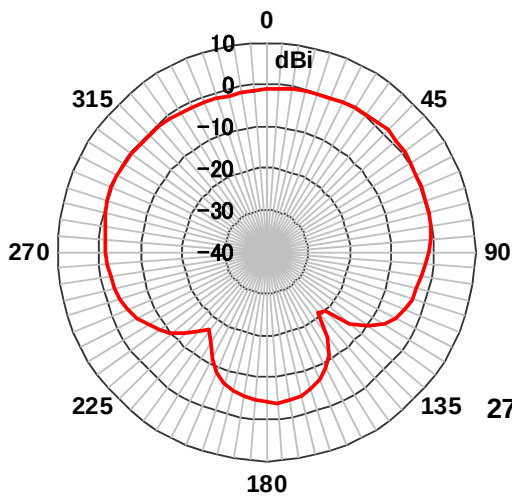


Horizontal Polarization

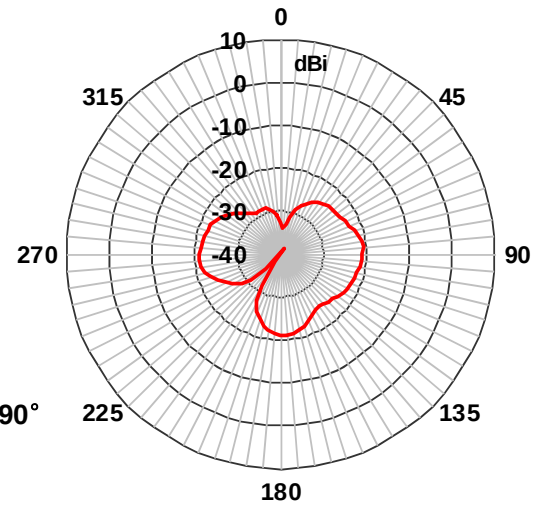
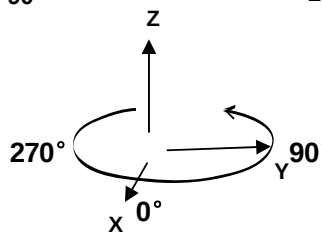


Vertical Polarization

XY-Plane 2400MHz



Horizontal Polarization



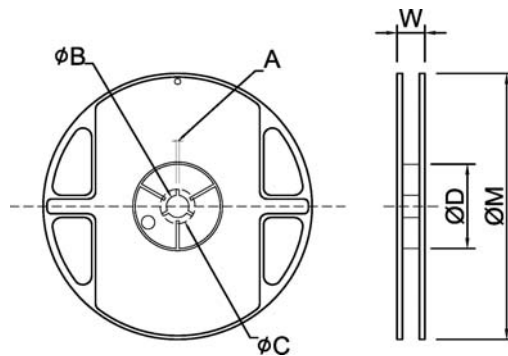
Vertical Polarization

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Taping Specifications

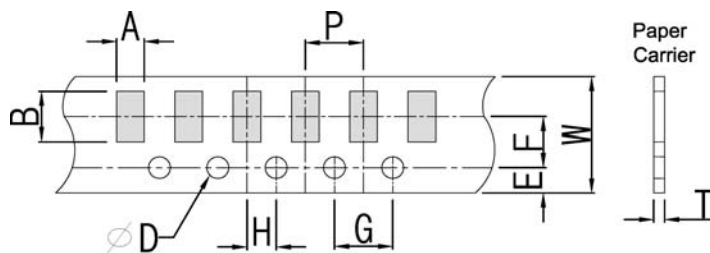
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕ B	ϕ C	ϕ D	W	ϕ M
3216	7"	3K/Reel	2.0±0.5	13.5±1.0	21±1.0	60±1.0	11.5±2.0	178±2.0

Taping Specification

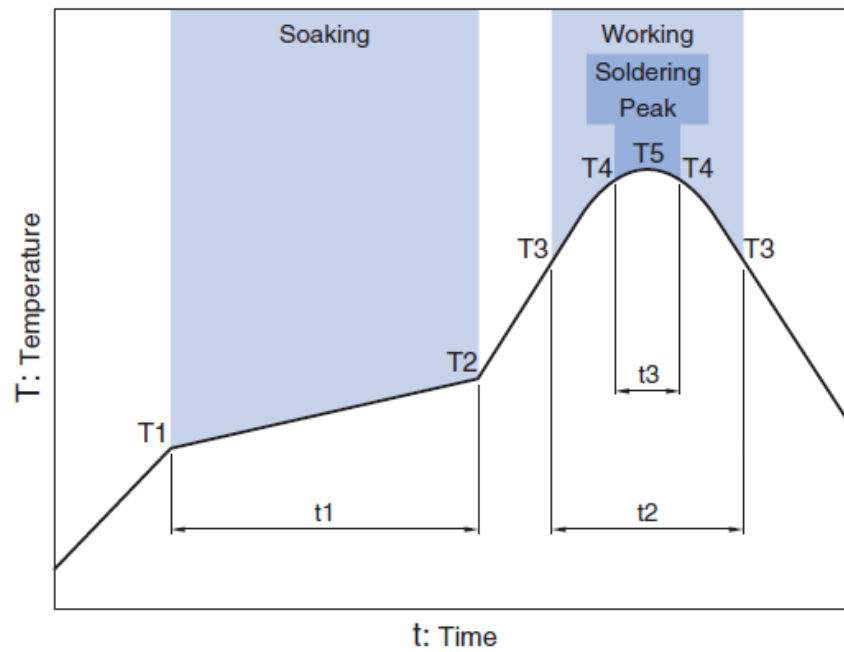


Packaging	Type	A	B	W	E	F	G	H	T	ϕD	P
Paper Type	3216	1.90±0.20	3.50±0.20	8.0±0.20	1.75±0.10	3.5±0.05	4.0±0.10	2.0±0.05	0.75±0.10	1.50 +0.10 -0	4.0±0.1

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Recommended Reflow Profile

Pb free solder



Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

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