

2.4GHz 3216 Chip Antenna: ANT3216R2400A1M1**Applications:**

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

Room 301, Building 7, Shidai Zhirui Technology, No.
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City, Guangdong Province, P.R.China**Features**

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

Part number

<u>ANT</u>	<u>3216</u>	<u>R</u>	<u>2400</u>	<u>A1</u>	<u>M1</u>
(1)	(2)	(3)	(4)	(5)	(6)

(1) Product Code	Chip
(2) Size Code	3.2x1.6mm
(3) Packing	Tape and reel
(4) Frequency	2.4GHz
(5) Series	A1
(6) Type	M1

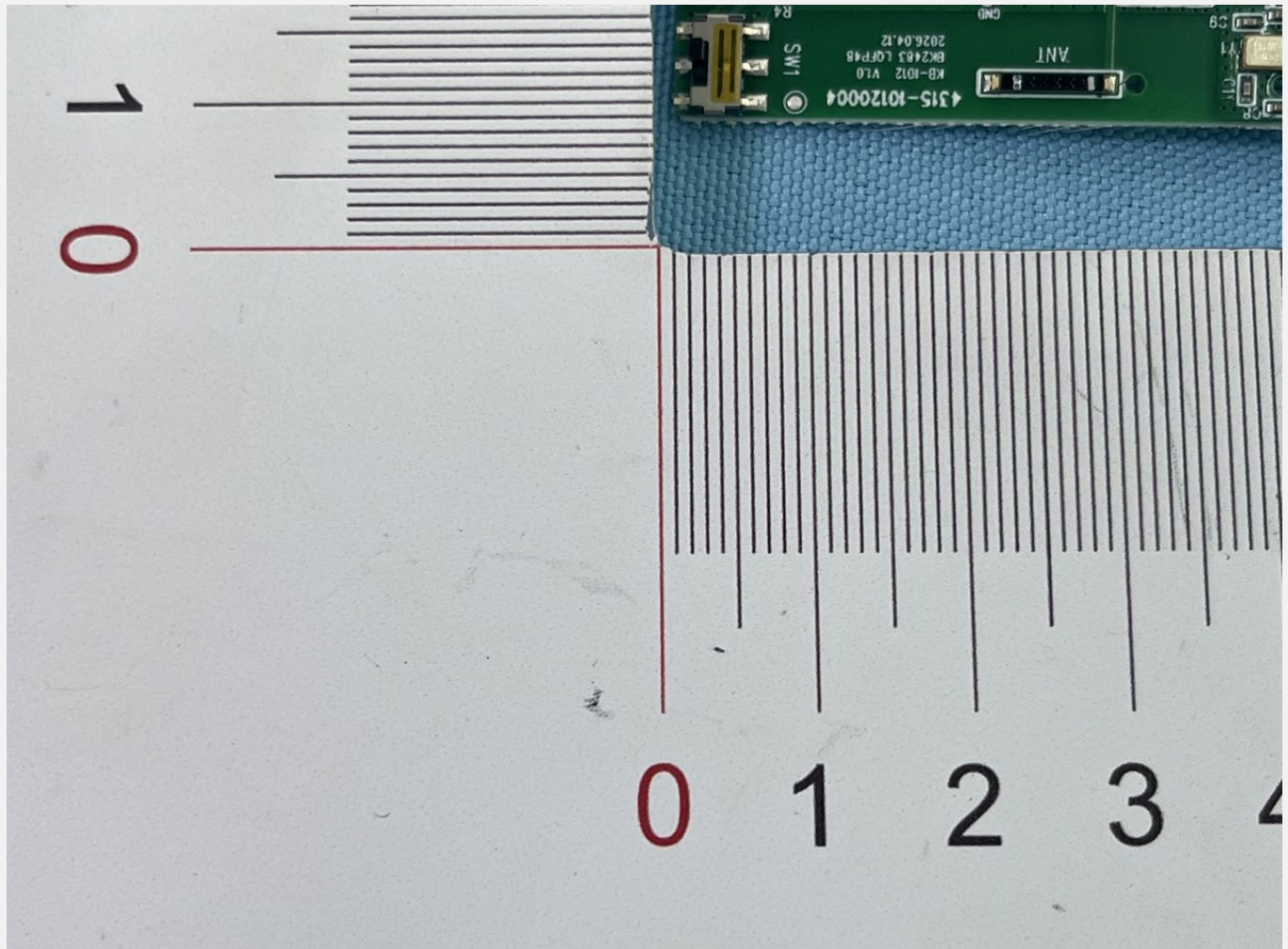
Electrical Specification

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.

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Evaluation Board Reference

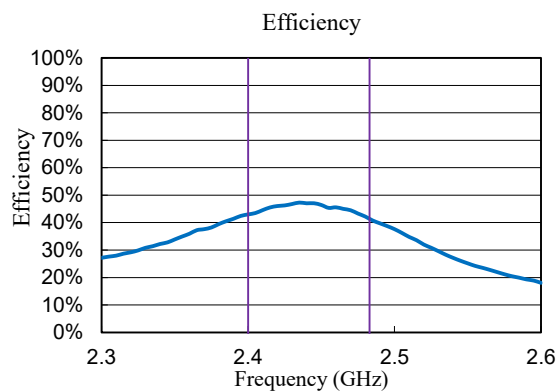
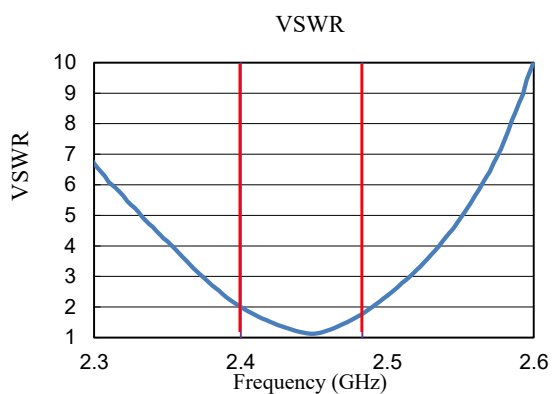
Antenna Lenth



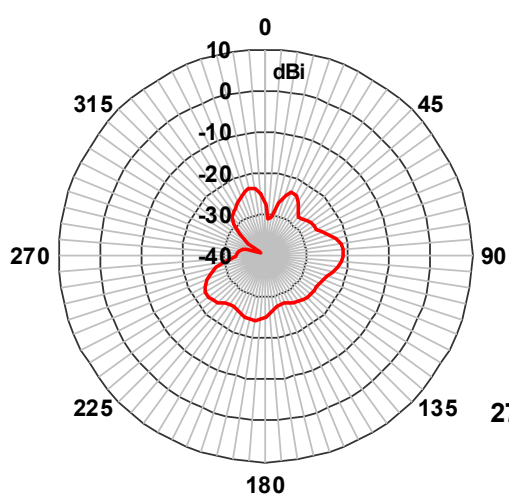
Electrical Characteristics

VSWR & Radiation

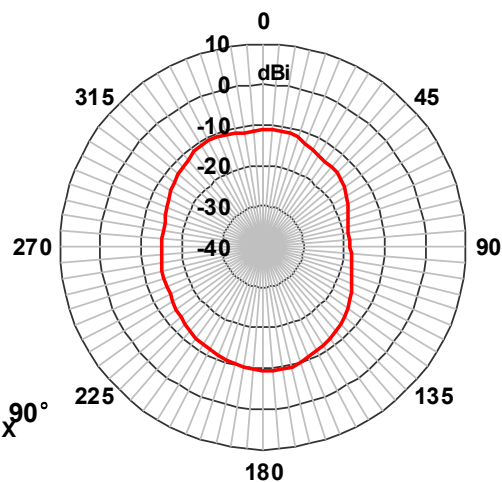
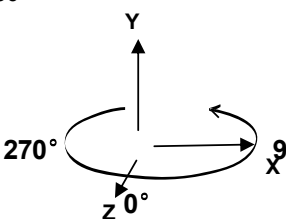
VSWR&Efficiency



ZX-Plane

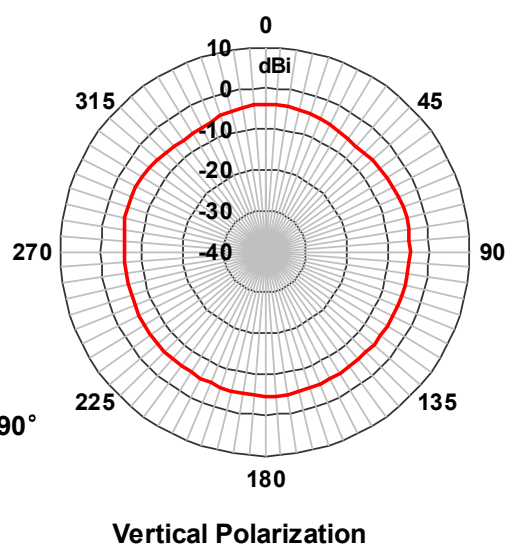
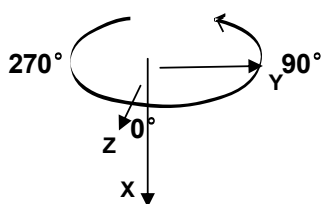
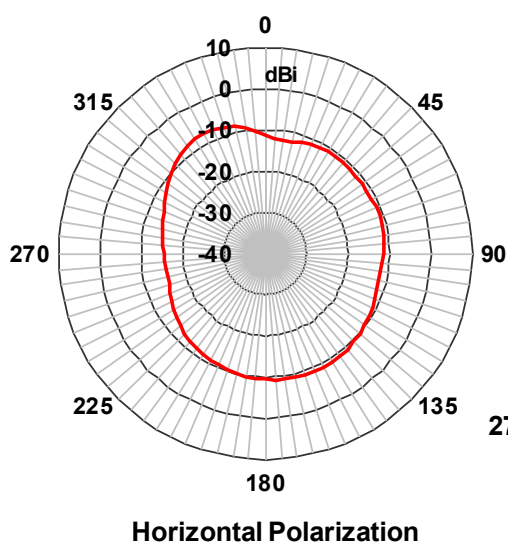


Horizontal Polarization

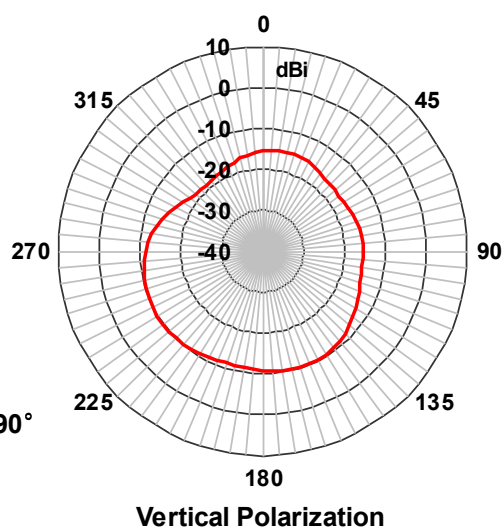
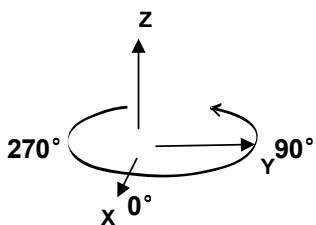
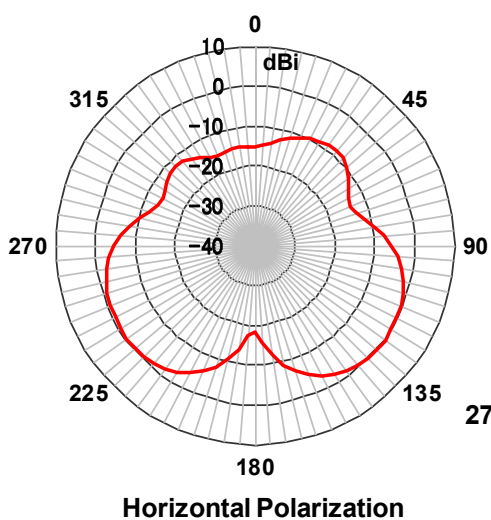


Vertical Polarization

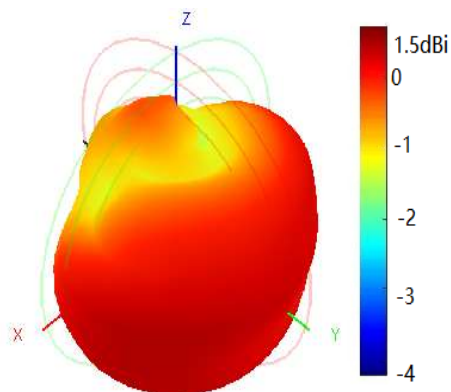
ZY-Plane



XY-Plane



2400MHz



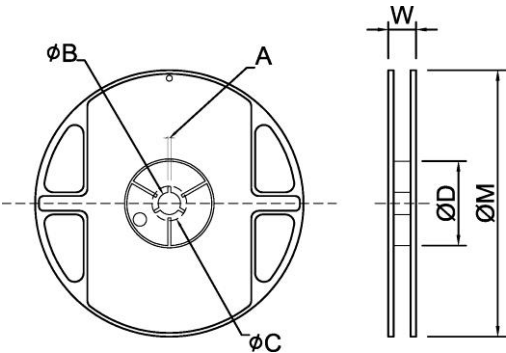
Freq/MHz	2400	2440	2484
Gain/dBi	1.5	0.5	1.2

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Taping Specifications

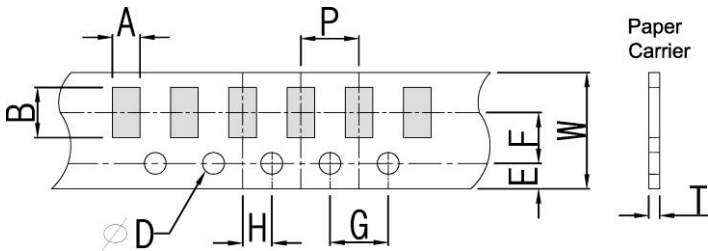
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕB	ϕC	ϕD	W	ϕM
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

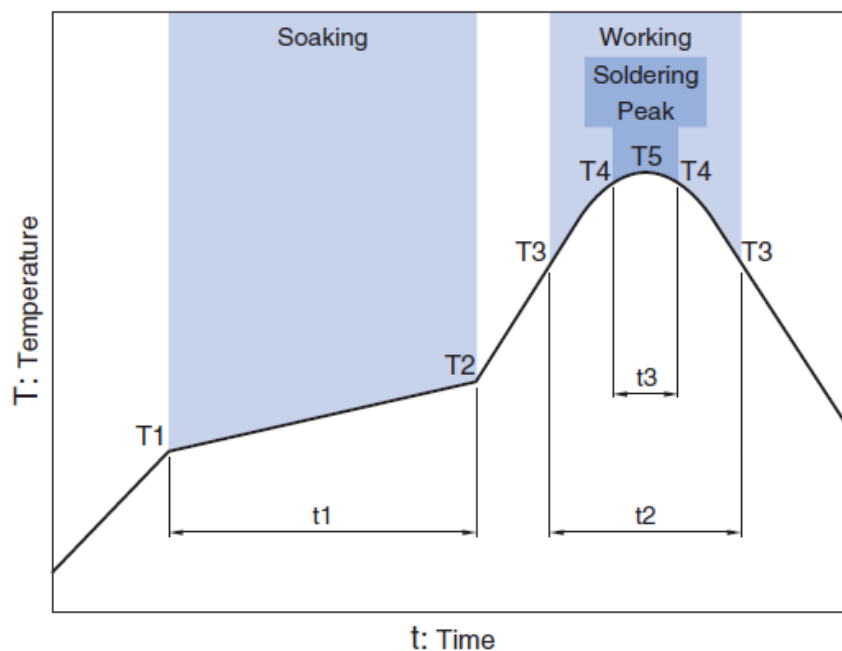
Taping Specification



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	4.0±0.1

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.

Revision History

Version	Date	Description
Ver.01	Apr.2023	New issue.