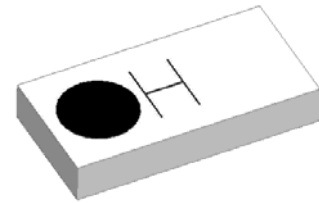


2.4GHz 3216 Chip Antenna: ANT3216R24003KM1**Applications:**

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

Features

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

**Part number**

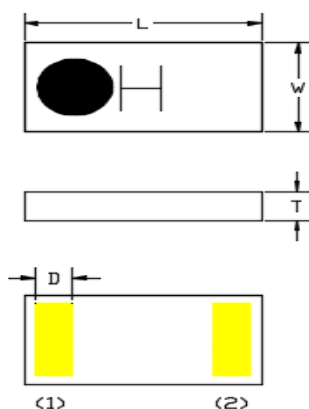
ANT 3216 R 2400 3K M1
 (1) (2) (3) (4) (5)

(1) Size Code	3.2x1.6mm
(2) Packing	Tape and reel
(3) Frequency	2.4GHz
(4) Packing Number	3K
(5) Code	M1

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Peak Gain	0.9 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

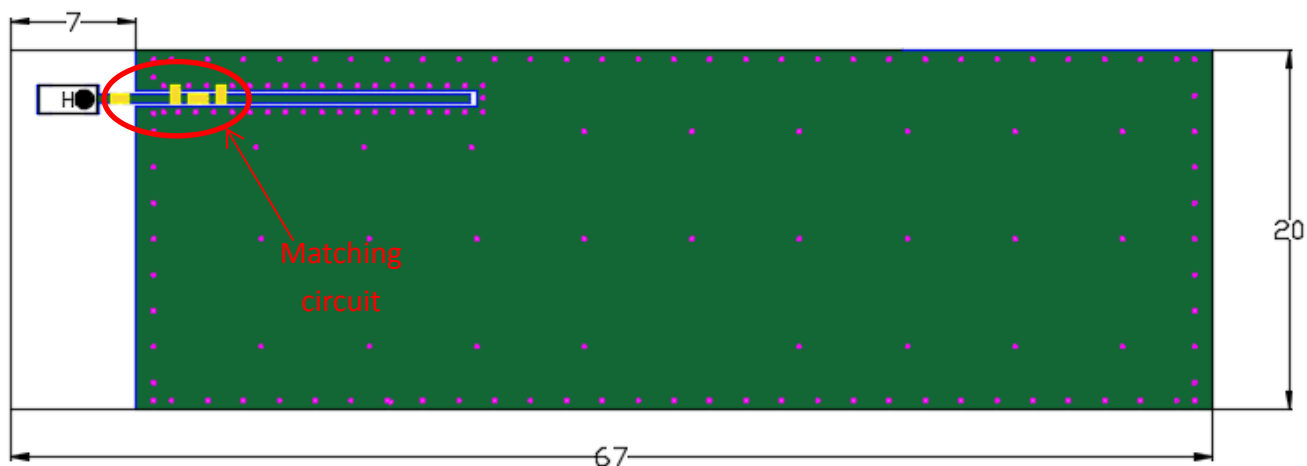
Manufacturer:Shenzhen Jiayz photo industrial ., Ltd

Address:A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power,
 Guanlan,Longhua District, Shenzhen, China

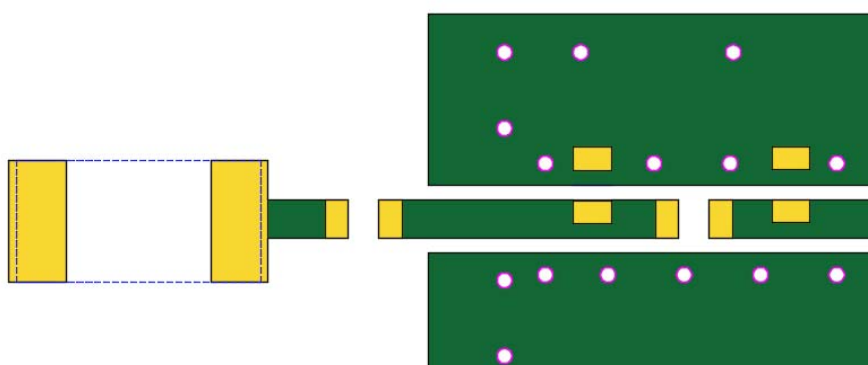
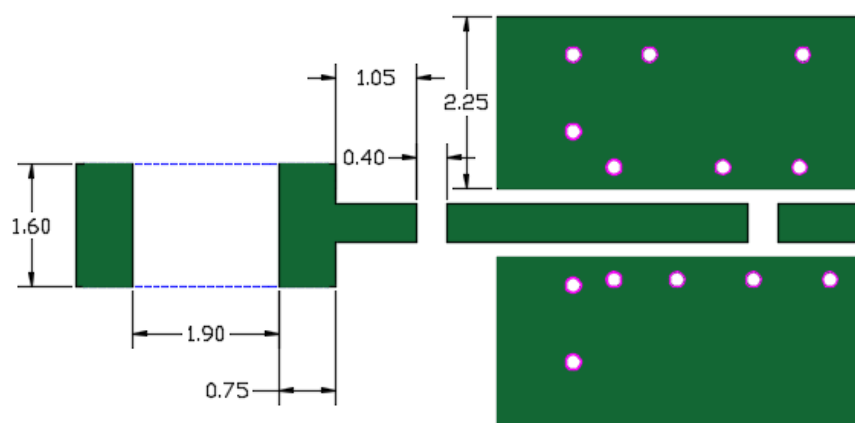
2.4GHz 3216 Chip Antenna: ANT3216R24003KM1

Evaluation Board Reference

PCB Dimension



Antenna Layout Reference



Unit : mm

 : Chip Antenna

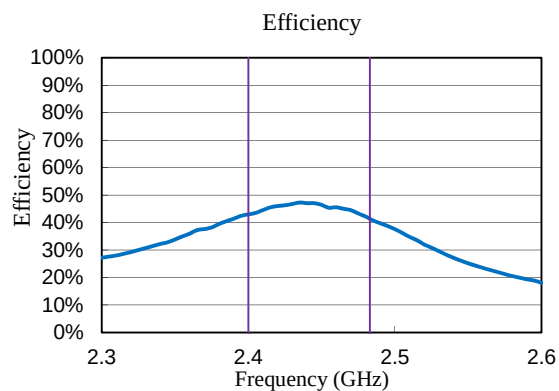
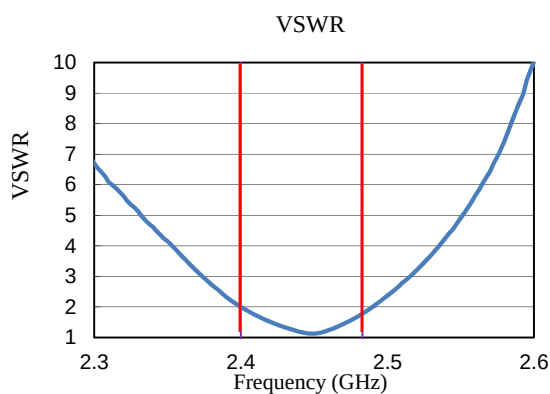
 : Land Pattern

2.4GHz 3216 Chip Antenna: ANT3216R24003KM1

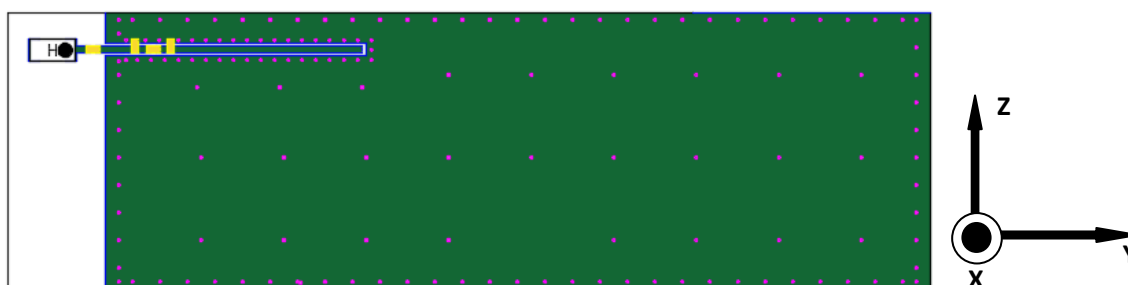
Electrical Characteristics

Return Loss & Radiation

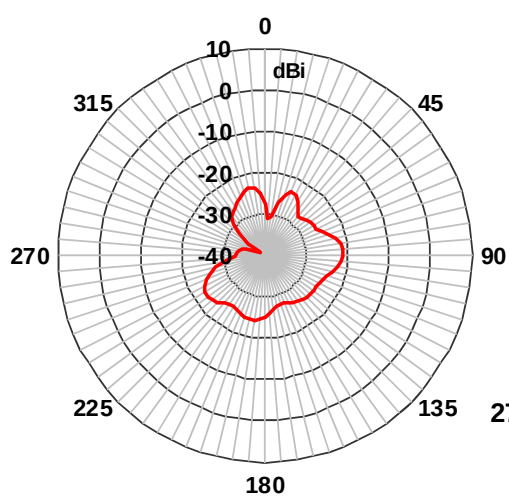
VSWR&Efficiency



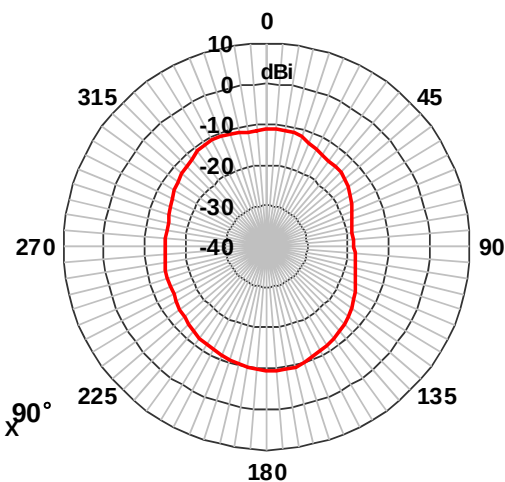
Radiation Pattern



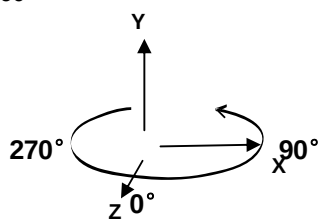
ZX-Plane



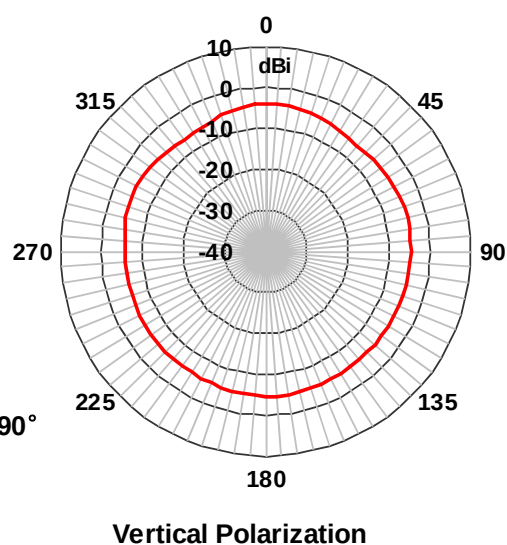
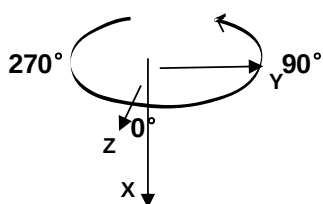
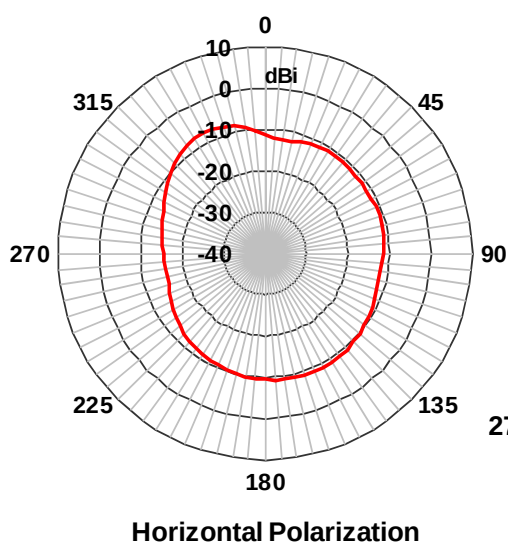
Horizontal Polarization



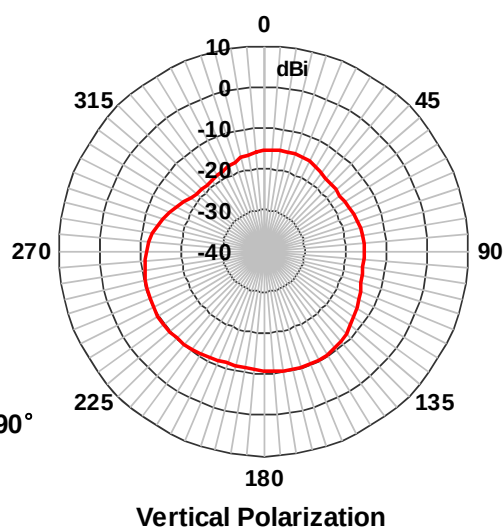
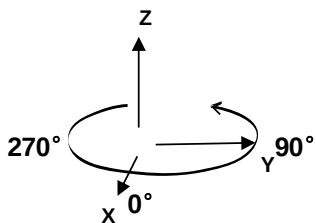
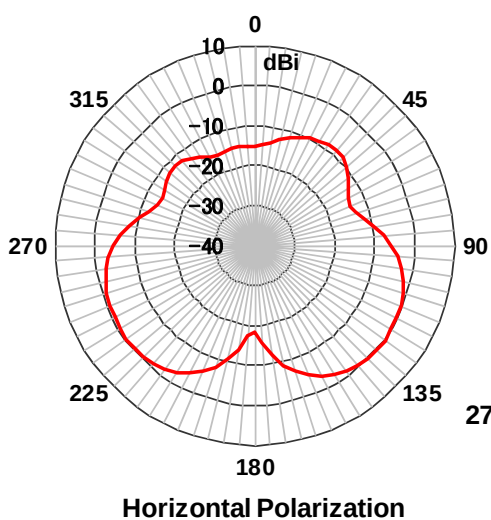
Vertical Polarization



ZY-Plane



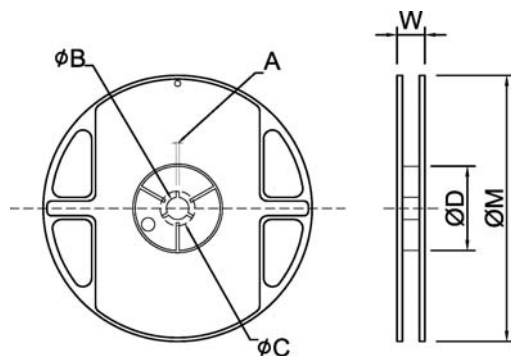
XY-Plane



Taping Specifications

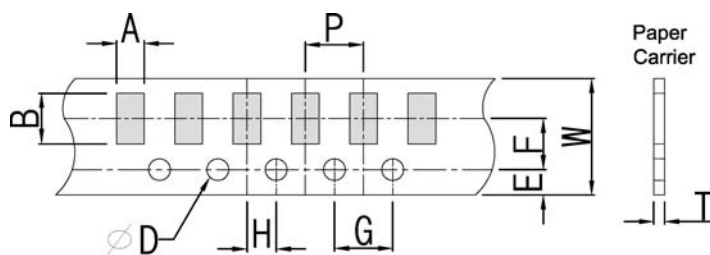
Reel and Taping Specification

Reel Specification



TYPE	SIZE		A	ϕB	ϕC	ϕD	W	ϕM
3216	7"	3K/Reel	2.0 $\pm$ 0.5	13.5 $\pm$ 1.0	21 $\pm$ 1.0	60 $\pm$ 1.0	11.5 $\pm$ 2.0	178 $\pm$ 2.0

Taping Specification

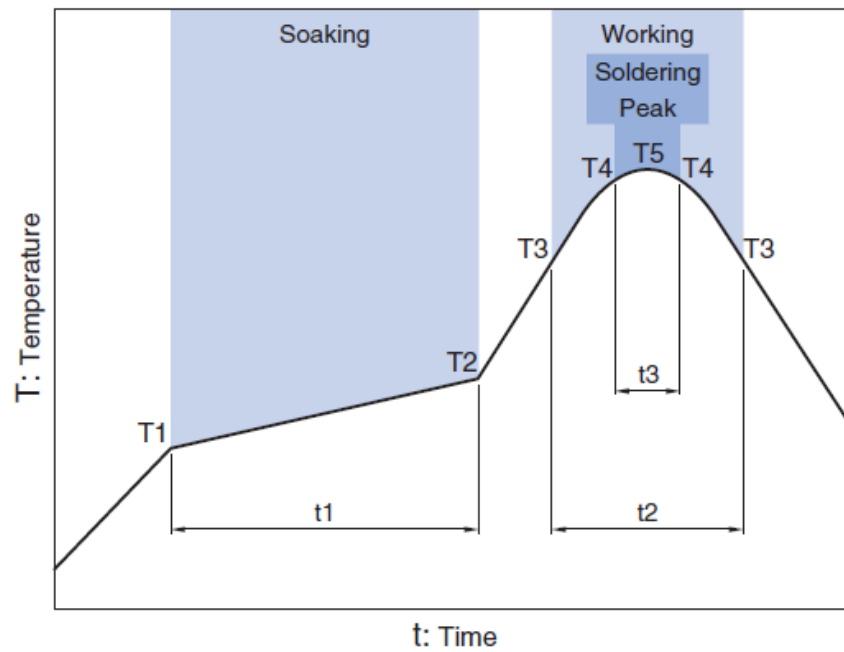


Packaging	Type	A	B	W	E	F	G	H	T	ϕD	P
Paper Type	3216	1.90 $\pm$ 0.20	3.50 $\pm$ 0.20	8.0 $\pm$ 0.20	1.75 $\pm$ 0.10	3.5 $\pm$ 0.05	4.0 $\pm$ 0.10	2.0 $\pm$ 0.05	0.75 $\pm$ 0.10	1.50 ^{+0.10} ₋₀	4.0 $\pm$ 0.1

2.4GHz 3216 Chip Antenna: ANT3216R24003KM1

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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