

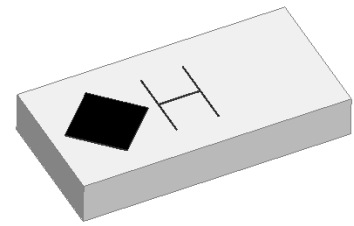
## 2.4/5GHz 3216 Chip Antenna: ANT3216R2455A1L1

### Applications:

WLAN, 802.11a, b, c/g, etc...

### Features

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



### Part number

ANT 3216 R 2455 A1 L1  
 (1) (2) (3) (4) (5) (6)

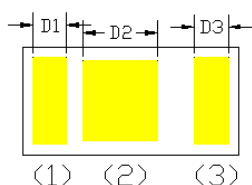
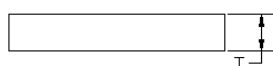
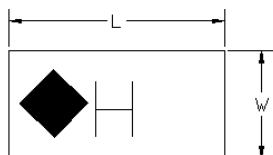
(1) Product Code	Chip
(2) Size Code	3.2x1.6mm
(3) Packing	Tape and reel
(4) Frequency	2.4GHz/5GHz
(5) Series	A1
(6) Type	L1

### Electrical Specification

Working Frequency Range	2400 ~2484 MHz	5150~5850 MHz
Peak Gain	2.8 dBi (Typ.)	5.3 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

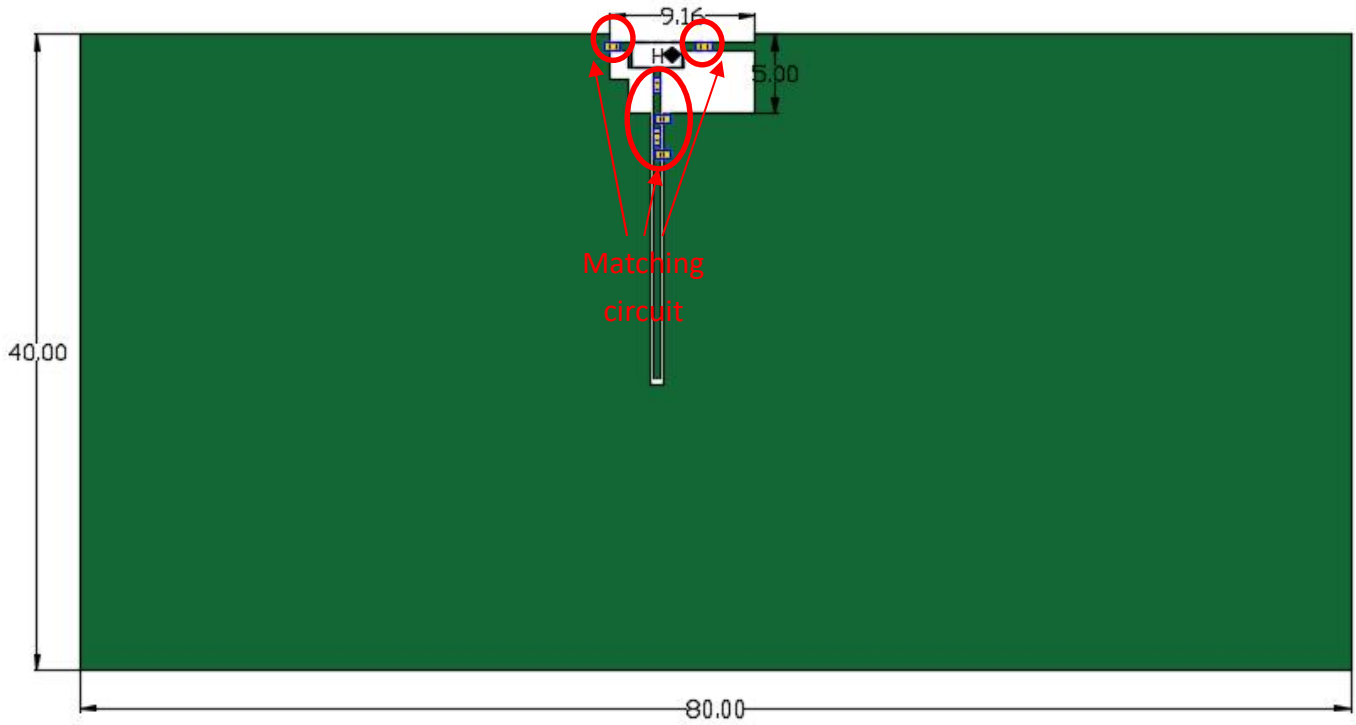


Dimension (mm)	
L	3.20±0.15
W	1.60±0.15
T	0.55±0.10
D1	0.50±0.15
D2	1.10±0.15
D3	0.50±0.15

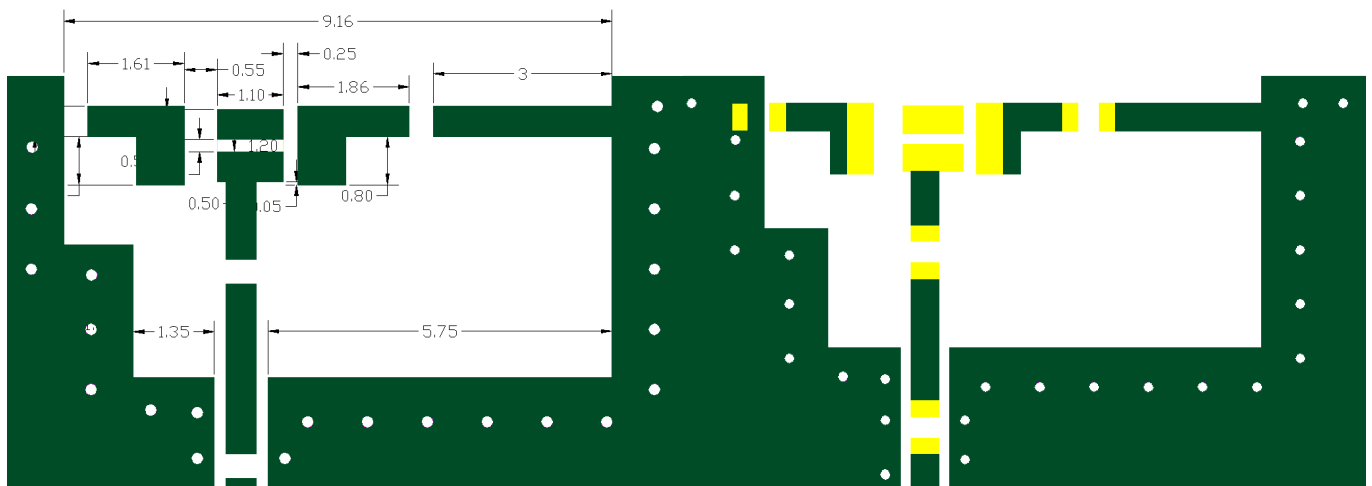
No.	Terminal Name
1	Ground
2	Feeding
3	Ground

Evaluation Board Reference

PCB Dimension



Antenna Layout Reference

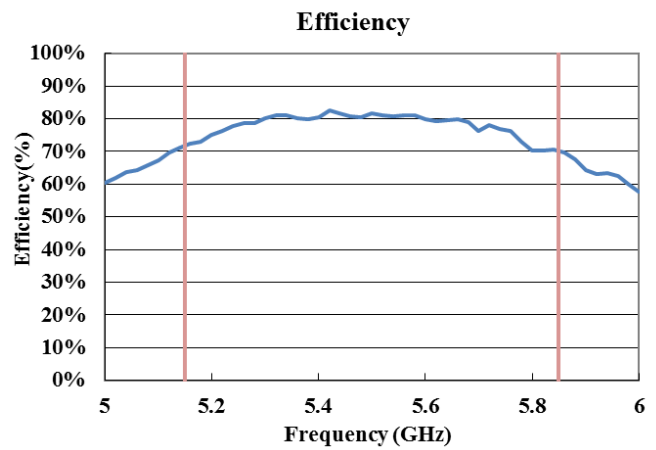
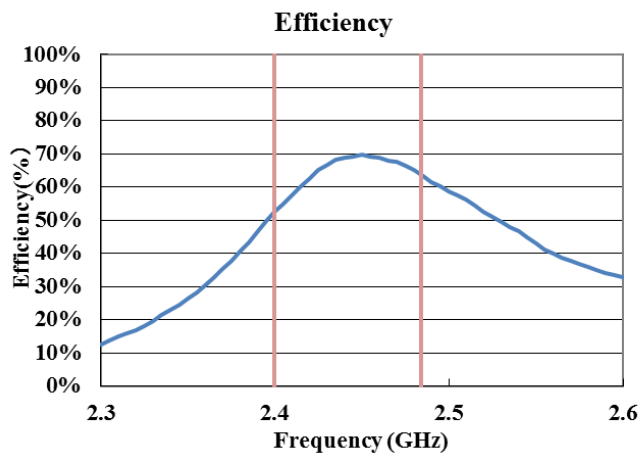
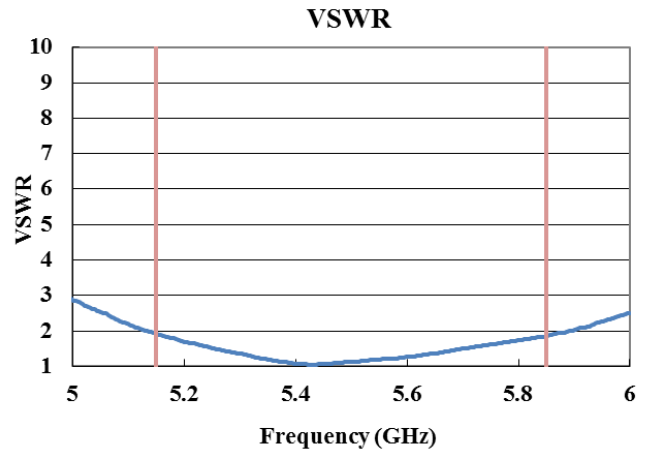
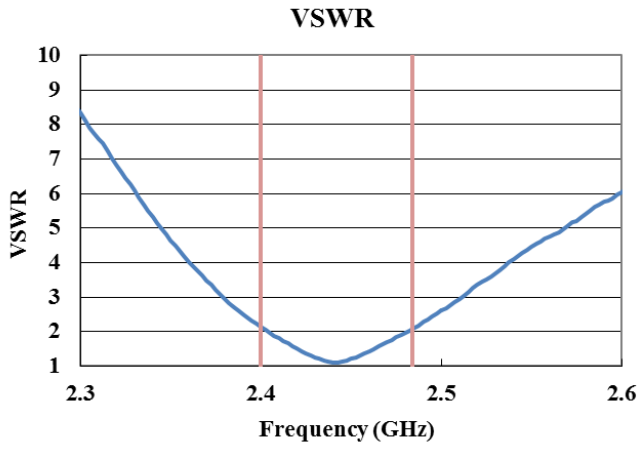


Unit : mm

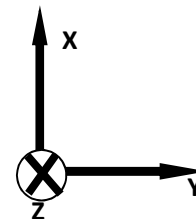
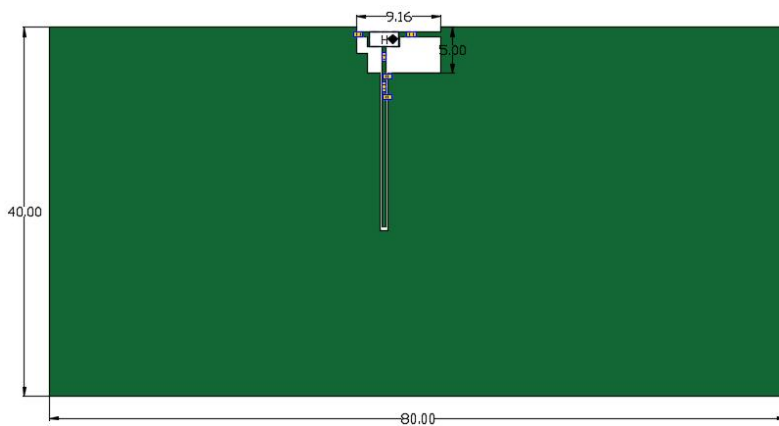
- Chip Antenna
- Land Pattern

**Electrical Characteristics**

**VSWR&Efficiency**



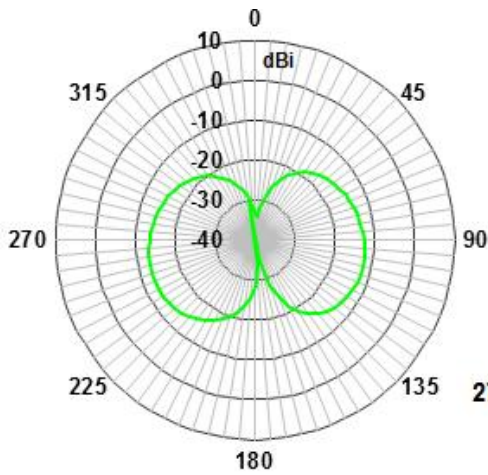
**Radiation Pattern**



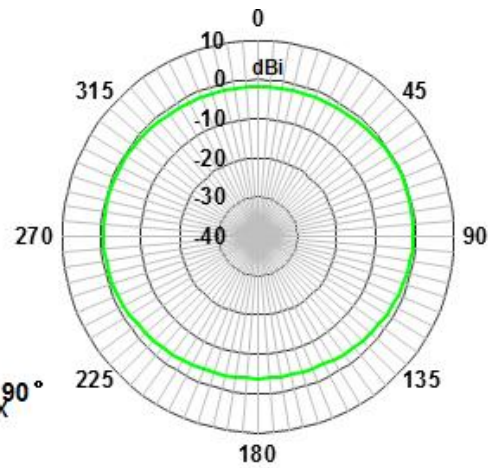
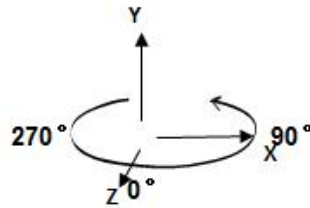
# 2.4/5GHz 3216 Chip Antenna: ANT3216R2455A1L1

Frequency=2440MHz

## ZX-Plane

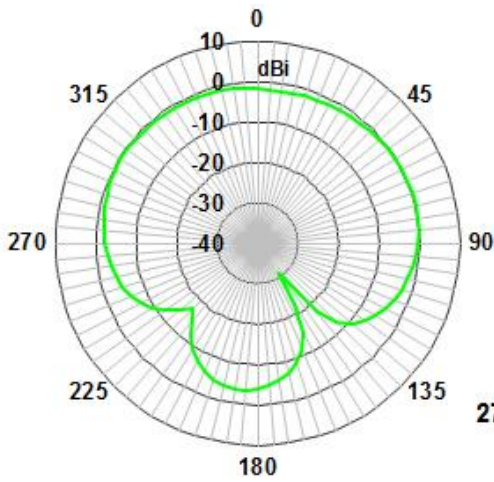


Horizontal Polarization

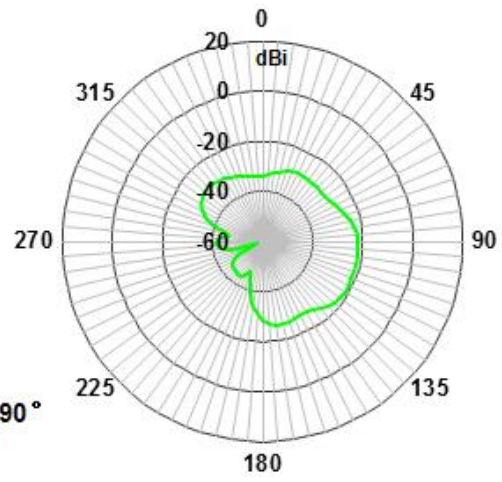
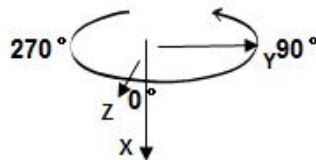


Vertical Polarization

## ZY-Plane

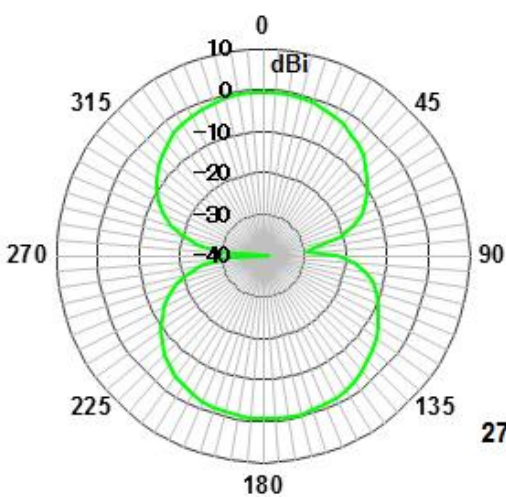


Horizontal Polarization

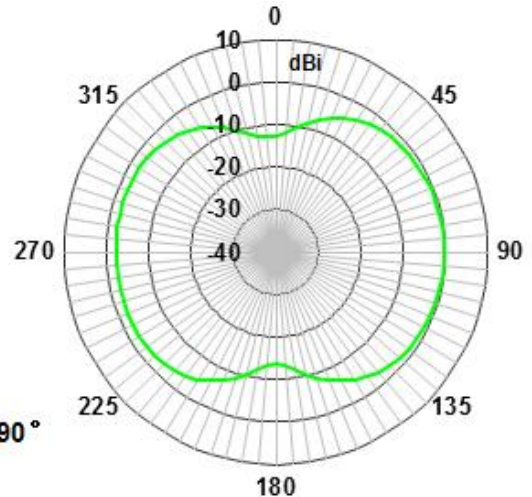
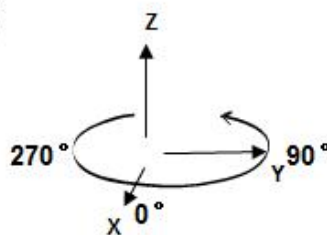


Vertical Polarization

## XY-Plane



Horizontal Polarization

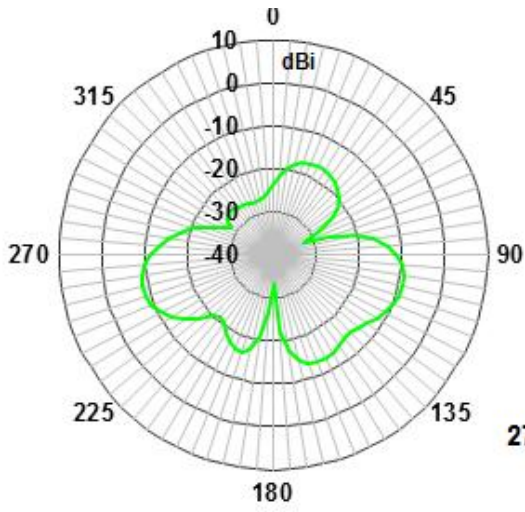


Vertical Polarization

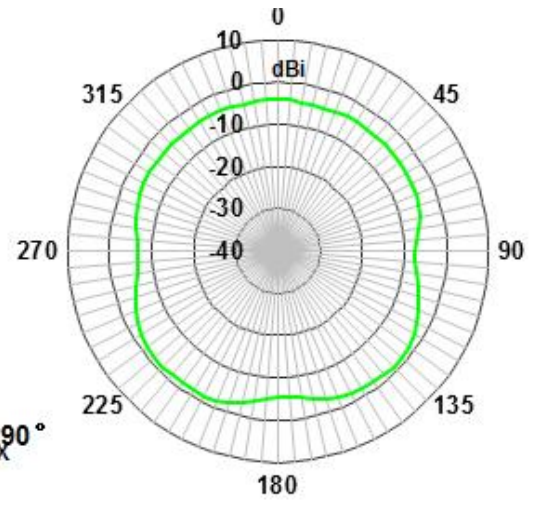
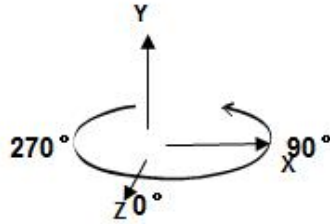
# 2.4/5GHz 3216 Chip Antenna: ANT3216R2455A1L1

Frequency=5500MHz

## ZX-Plane

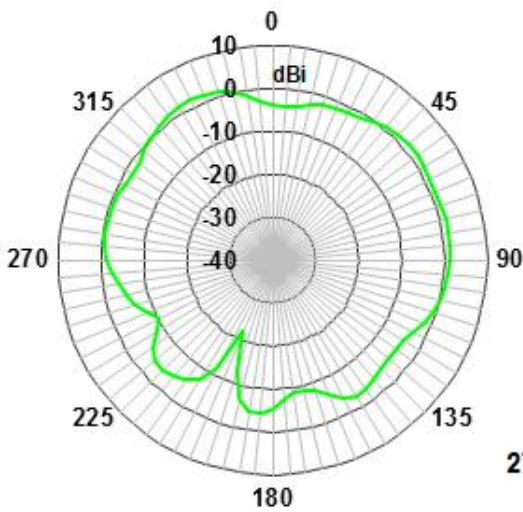


Horizontal Polarization

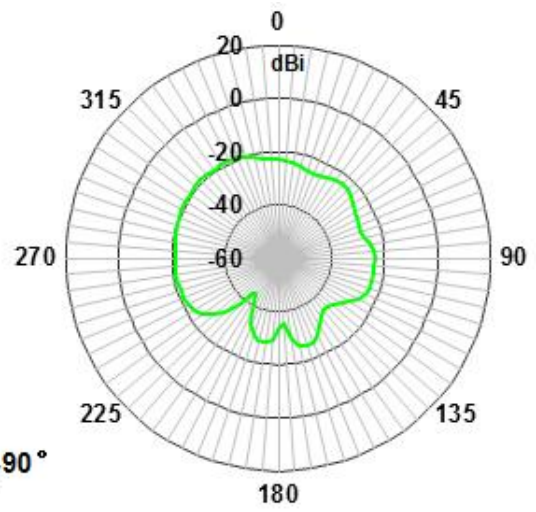
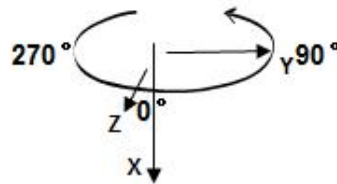


Vertical Polarization

## ZY-Plane



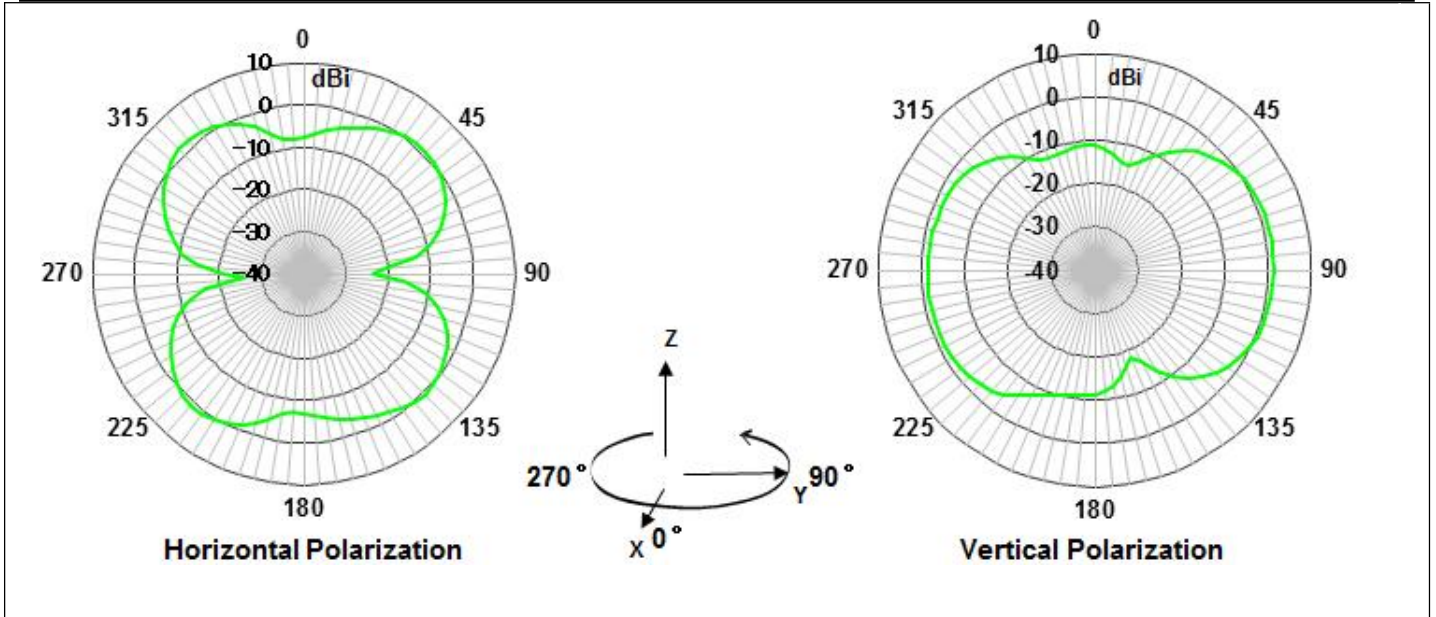
Horizontal Polarization



Vertical Polarization

## XY-Plane

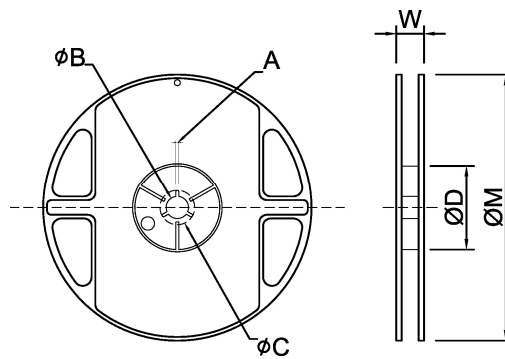




**Taping Specifications**

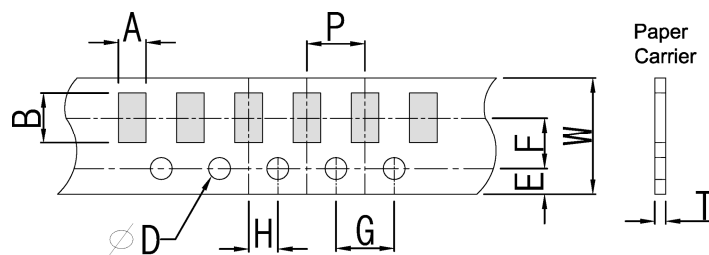
**Reel and Taping Specification**

**Reel Specification**



TYPE	SIZE		A	ψB	ψC	ψD	W	ψM
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

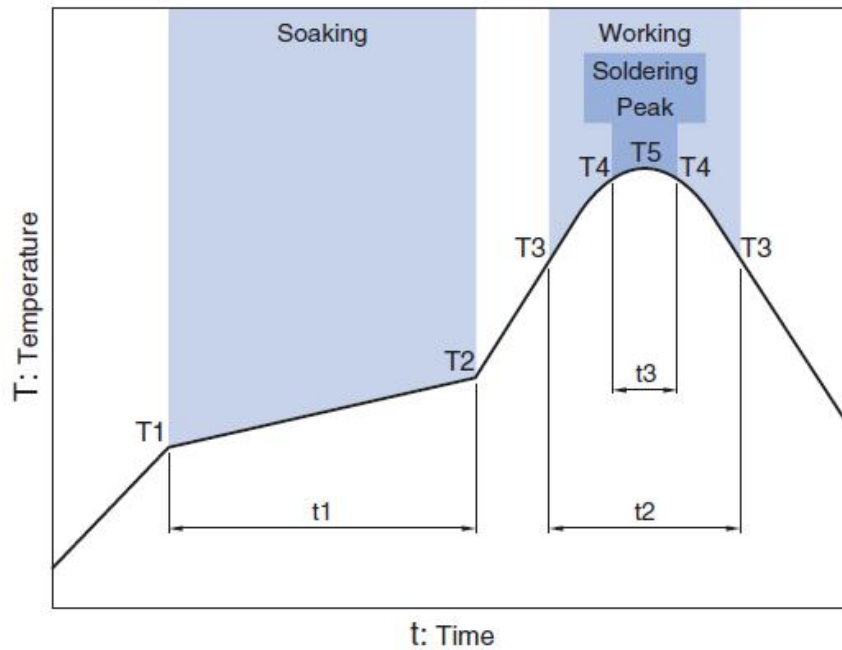
**Taping Specification**



Packaging	Type	A	B	W	E	F	G	H	T	ψD	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.

May 2023 Ver.01