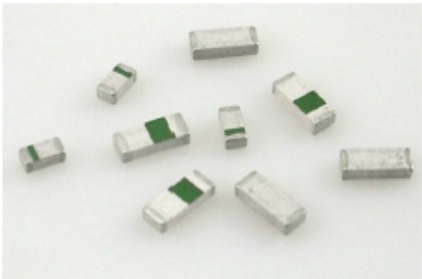


Multilayer Chip Antenna

FEATURES

- Low return loss and material loss.
- High radiation efficiency, high gain in radiation pattern.
- Multilayer monolithic structure yields high reliability.



APPLICATIONS

- Bluetooth; WLAN; 0.8 GHz~6 GHz GSM / DCS / PCS
Bluetooth module, WLAN module. 0.8GHz~6 GHz communication system including GSM / DCS / PCS cellphone etc.

Product Identification

MGMA 5220 H 2450 - A01
① ② ③ ④ ⑤

- ① Series name
- ② Dimension L×W: 【5220: 5.2mm×2.0mm; 3216: 3.2mm×1.6mm】
- ③ Structure series
- ④ center frequency: 2450MHz
- ⑤ Antenna type

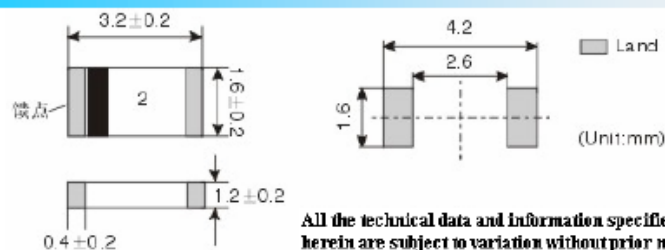
Product Specification Summary

Part No	Dimensions L×W(mm)	Center Frequency fo (MHz)	Bandwidth (MHz)	Gain
MGMA3216H2450-A02	3.2×1.6	2450 MHz	$f_0 \pm 50$	0~2 dBi

Multilayer Chip Antenna

Part No: MGMA3216H2450-A02

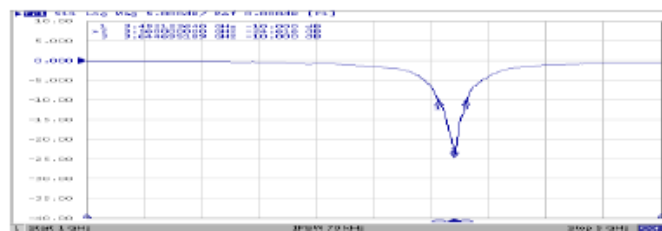
1. Dimensions (Unit: mm)



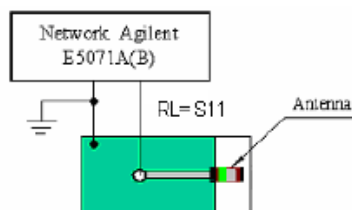
2. Electrical Characteristics

No.	Item	Specifications
1	Central Frequency (No matching)	2450 MHz
2	Band Width (No matching)	100 MHz (2400~2500MHz)
3	Gain	0~2 dBi
4	V.S.W.R (in BW)	≤2.0
5	Polarization	Linear
6	Azimuth Beam width	Omni-directional
7	Impedance	50 Ω

3. Characteristic curve



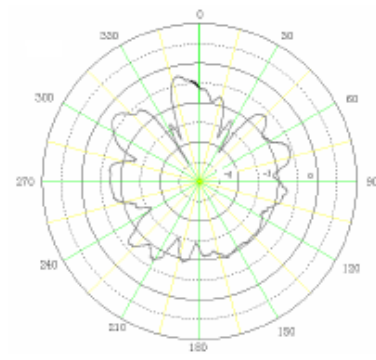
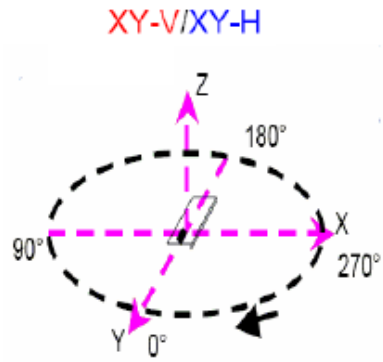
4. Test Circuit



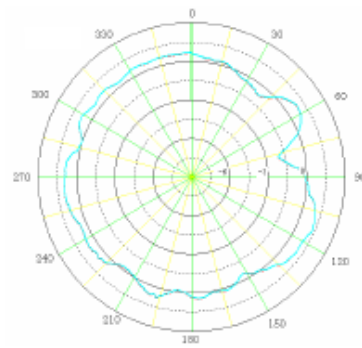
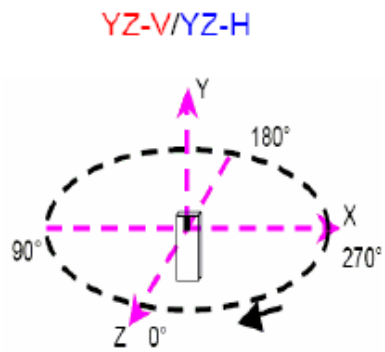
Multilayer Chip Antenna

5. Radiation Pattern

XY cut @2.45GHz
— Vertical
- - - Horizontal



XZ cut @2.45GHz
— Vertical
- - - Horizontal



XZ cut @2.45GHz
— Vertical
- - - Horizontal

