

AT3216 Series

Multilayer Chip Antenna

Features

- ❖ Monolithic SMD with small, low-profile and light-weight type.
- ❖ Wide bandwidth

Applications

- ❖ 5~6GHz wireless communication system



Specifications

Part Number	Frequency Range (MHz)	Peak Gain (XZ-V)	Average Gain (XZ-V)	VSWR	Impedance
AT3216-B5R5HAA_	4900~5875	2.0 dBi typ.	-2.5 dBi typ.	2.2 max.	50 Ω

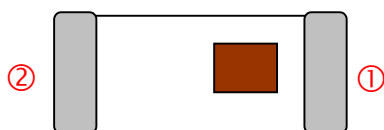
Q'ty/Reel (pcs) : 3,000 pcs
 Operating Temperature Range : -40 ~ +85 °C
 Storage Temperature Range : -40 ~ +85 °C
 Power Capacity : 500mW max.

Part Number

AT **3216** - **B** **5R5** **HAA** **□**
 ① ② ③ ④ ⑤ ⑥

① Type	AT : Antenna	② Dimensions (L x W)	3.2x 1.6 mm
③ Material Code	B	④ Frequency Range	5R5=5500MHz
⑤ Specification Code	HAA	⑥ Packaging	T: Tape & Reel B: Bulk

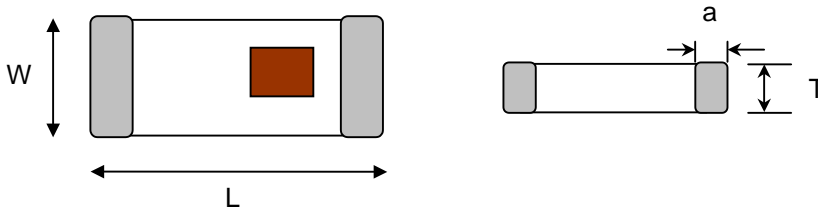
Terminal Configuration



No.	Terminal Name	No.	Terminal Name
①	Feeding Point	②	NC

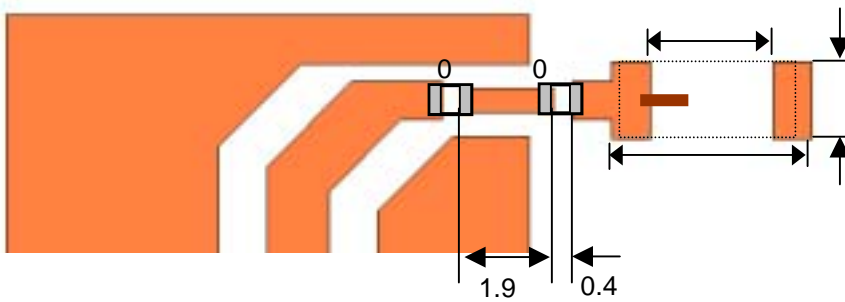
Dimensions and Recommended PC Board Pattern

Unit : mm

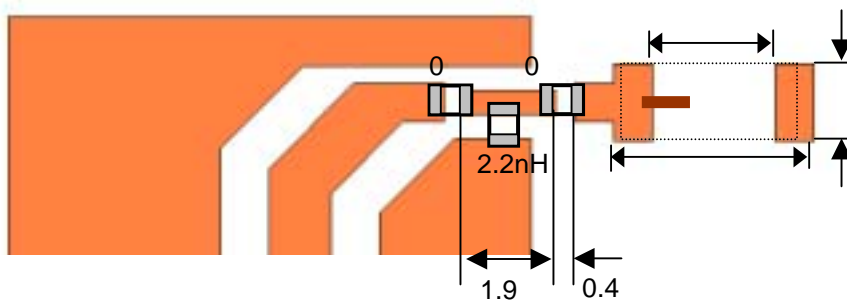


Mark	L	W	T	a
Dimensions	3.2±0.2	1.6±0.2	1.3+ 0.1/-0.2	0.5±0.3

(a) Without Matching Circuits



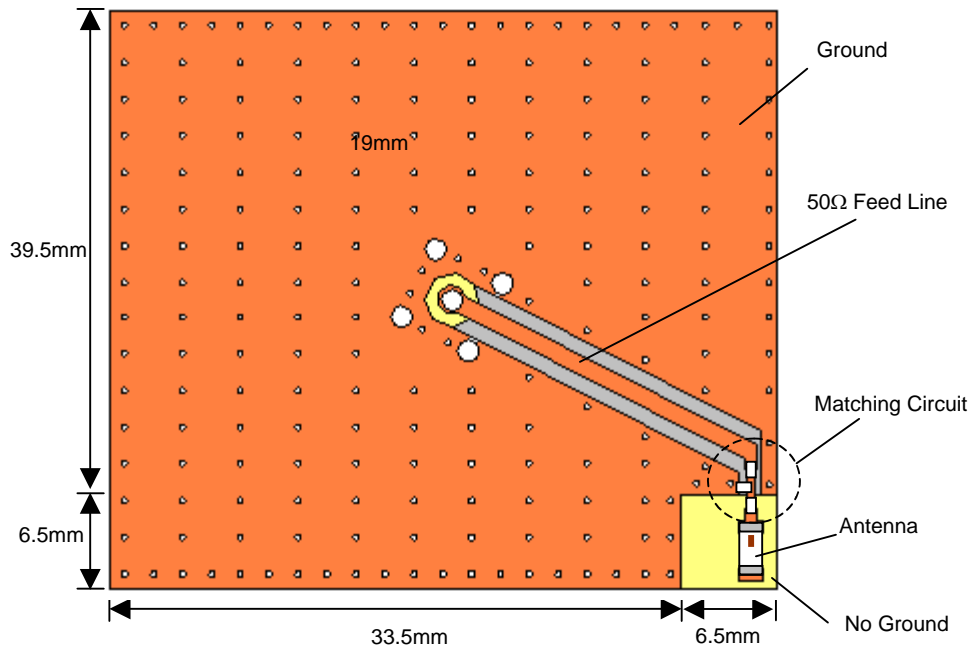
(b) With Matching Circuits



*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

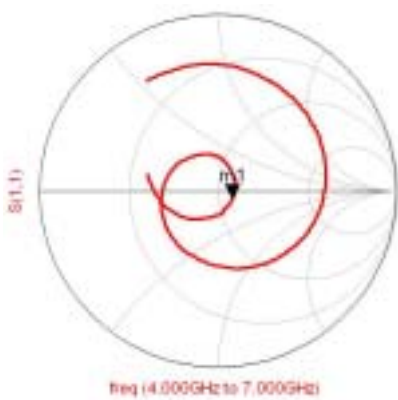
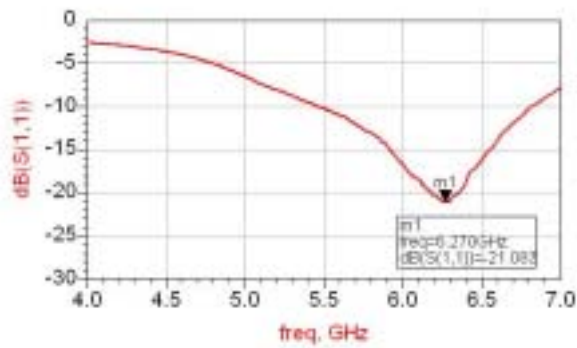
Typical Electrical Characteristics (T=25°C)

❖ Test Board

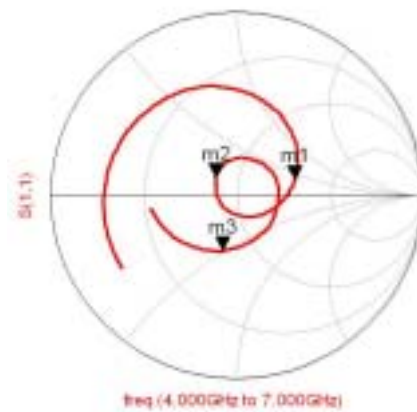
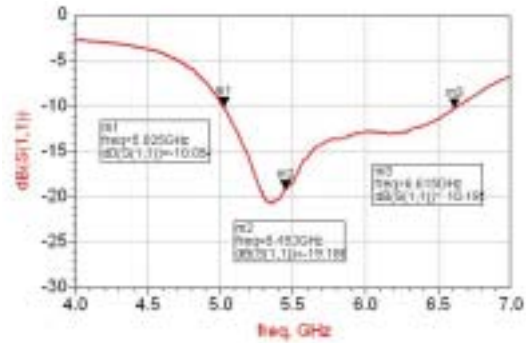


❖ Return Loss

(a) Without Matching Circuits

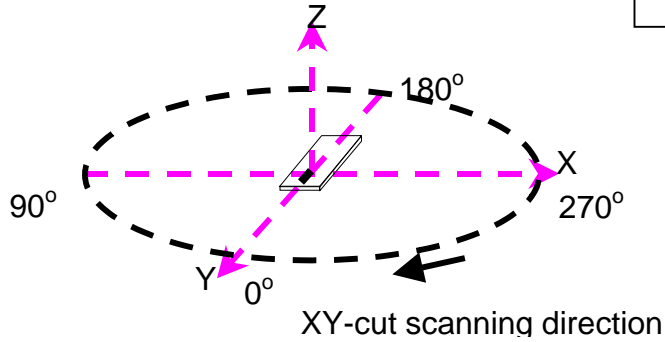


(b) With Matching Circuits

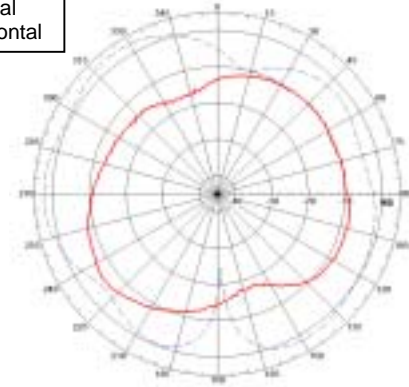


Radiation Patterns

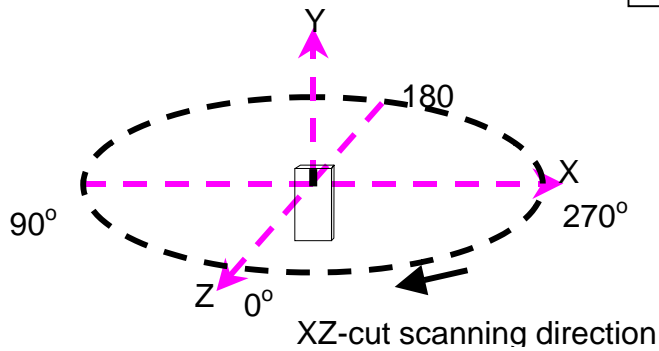
XY-V/XY-H



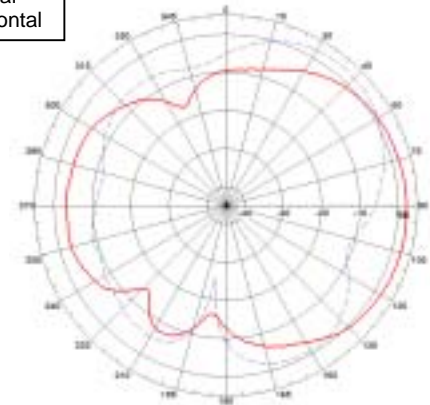
XY cut @5.5GHz
— Vertical
- - Horizontal



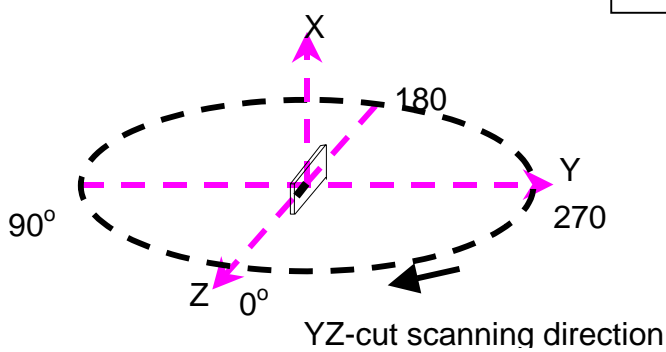
XZ-V/XZ-H



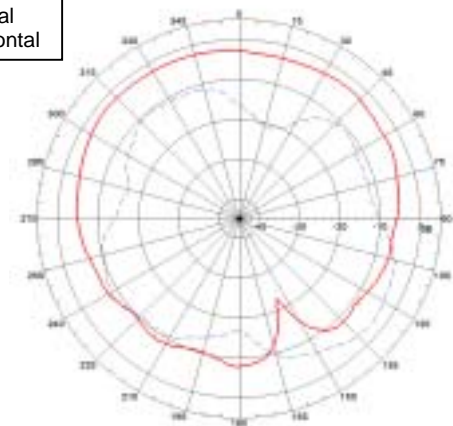
XZ cut @5.5GHz
— Vertical
- - Horizontal



YZ-V/YZ-H



YZ cut @5.5GHz
— Vertical
- - Horizontal



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