

# AT3216 Series Multilayer Chip Antenna

#### **Features**

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

## **Applications**

- ❖Bluetooth/Wireless LAN/Home RF
- ❖ISM band 2.4GHz applications



## **Specifications**

Part Number	Frequency Range (MHz)	Peak Gain (XZ-V)	Average Gain ( XZ-V )	VSWR	Impedance
AT3216 -B2R7HAA_	2400 ~ 2500	0.5 dBi typ.	-0.5 dBi typ.	2 max.	50 Ω

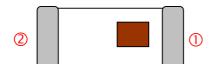
Q'ty/Reel (pcs) : 3,000pcs
Operating Temperature Range : -40 ~ +85 °C
Storage Temperature Range : -40 ~ +85 °C
Power Capacity : 3W max.

## **Part Number**

<u>AT</u> <u>3216</u> - <u>B</u> <u>2R7</u> <u>HAA</u> □ /<u>LF</u> ① ② ③ ④ ⑤ ⑥ ⑦

① Туре	AT : Antenna	② Dimensions ( L × W )	3.2× 1.6 mm
3 Material Code	В	Frequency Range	2R7=2700MHz
S Specification Code	НАА	6 Packaging	T: Tape & Reel B: Bulk
Soldering	=lead-containing /LF=lead-free		

# **Terminal Configuration**

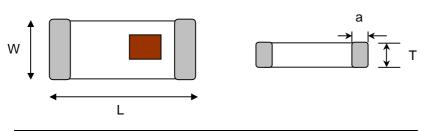


No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC



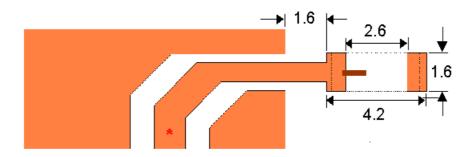
# **Dimensions and Recommended PC Board Pattern**

Unit: mm

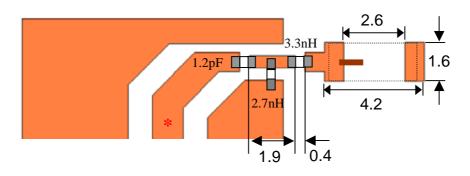


Mark	L	W	Т	а
Dimensions	3.2±0.2	1.6±0.2	1.3+ 0.1/-0.2	0.5±0.3

# (a) Without Matching Circuits



# (b) With Matching Circuits

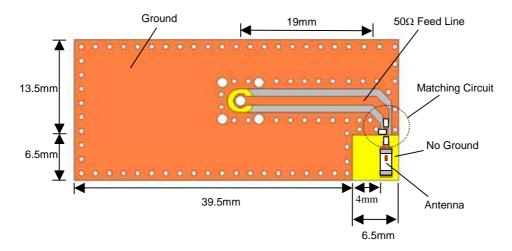


<sup>\*</sup>Line width should be designed to match  $50\Omega$  characteristic impedance, depending on PCB material and thickness.



# Typical Electrical Characteristics (T=25°C)

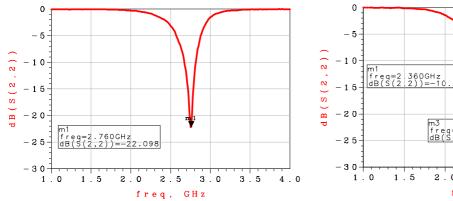
# ❖Test Board

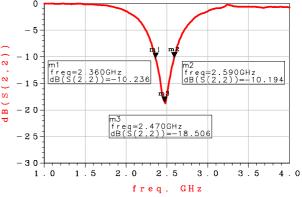


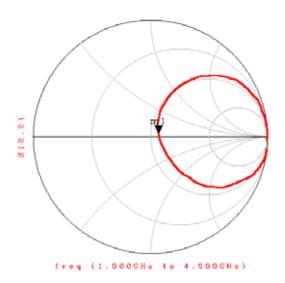
## ❖Return Loss

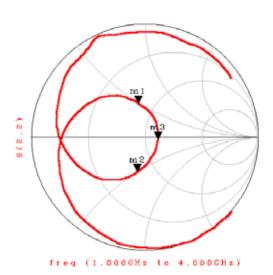
# (a) Without Matching Circuits

# (b) With Matching Circuits



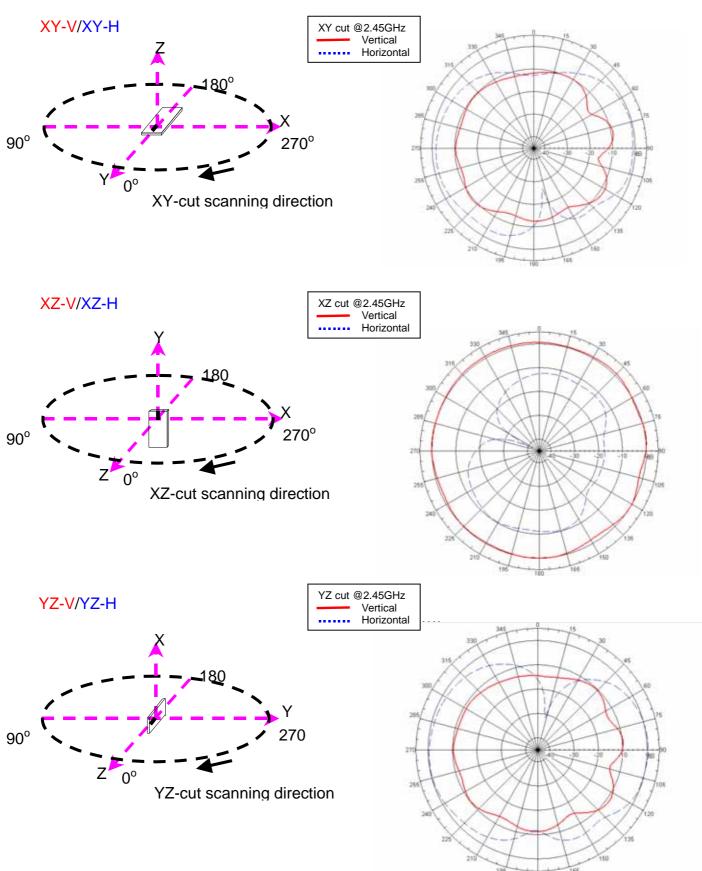








#### **Radiation Patterns**



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