

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 : +5 ~ +35 °C, Humidity 45~75%RH

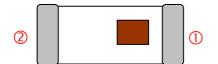
Storage Period : 12 months max. Power Capacity : 2W max.

Part Number

<u>AT</u> <u>3216</u> - <u>B</u> <u>2R7</u> <u>HAA</u> <u>□</u> <u>□</u>

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

Terminal Configuration

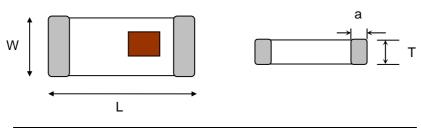


No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC



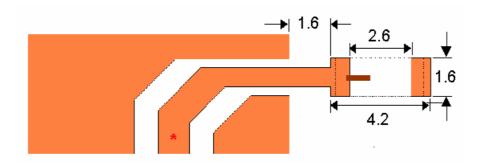
Dimensions and Recommended PC Board Pattern

Unit: mm

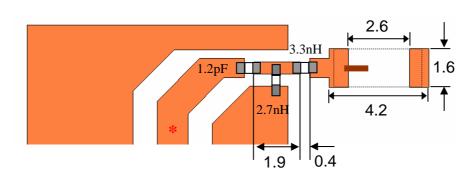


Mark	L	W	Т	а
Dimensions	3.2±0.2	1.6±0.2	1.3+ 0.1/-0.2	0.5±0.3

(a) Without Matching Circuits



(b) With Matching Circuits

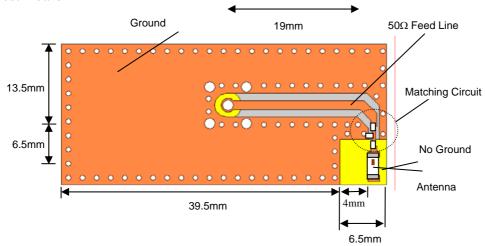


^{*}Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.



Typical Electrical Characteristics (T=25°C)

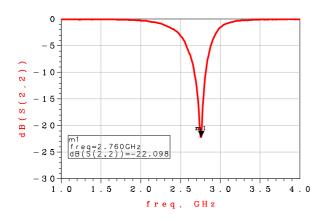
❖Test Board

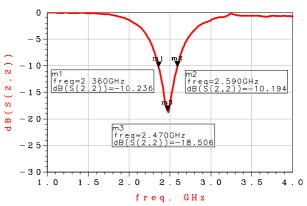


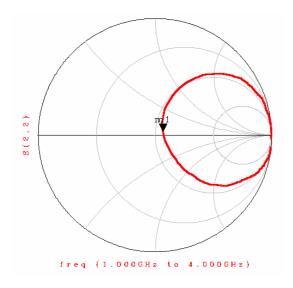
❖Return Loss

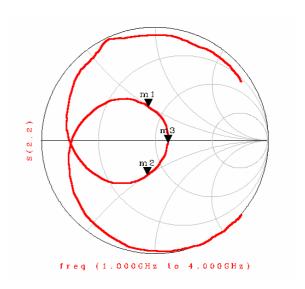
(a) Without Matching Circuits

(b) With Matching Circuits

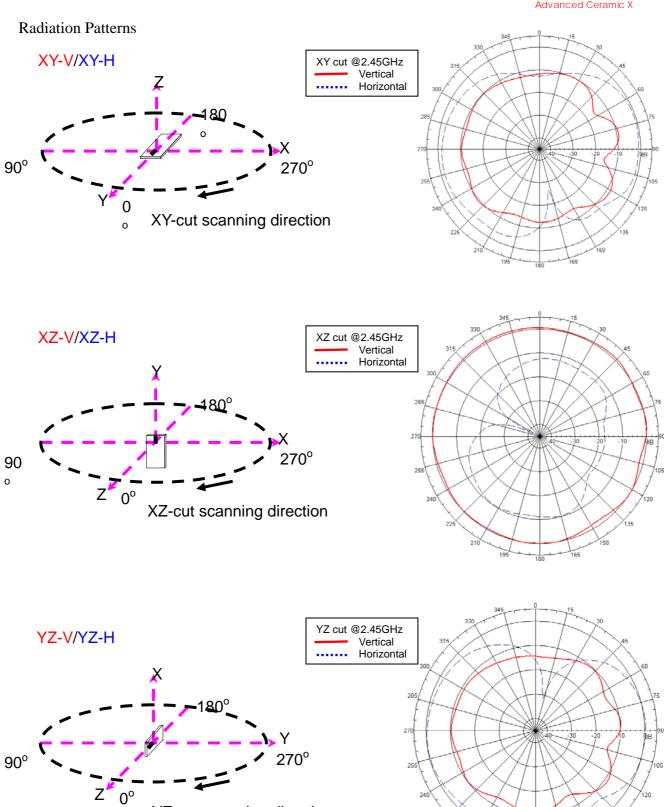












Advanced Ceramic X Corp.

16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan TEL:886-3-5987008 FAX:886-3-5987001

YZ-cut scanning direction

E-mail: acx@acxc.com.tw http://www.acxc.com.tw