

AT9520 Series Multilayer Chip Antenna

Features

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

Applications

2.4GHz WLAN, Home RF, Bluetooth Modules, etc.



Specifications

Part Number	Frequency Range (MHz)	Peak Gain (XZ-V)	Average Gain (XZ-V)	VSWR	Impedance
AT9520- B2R4HAA_	2400~2500	3.0 dBi typ.	1.0 dBi typ.	2 max.	50 Ω

Q'ty/Reel (pcs): 1000pcsOperating Temperature Range: -40 \sim +85 $^{\circ}$ CStorage Temperature Range: -40 \sim +85 $^{\circ}$ CPower Capacity: 3W max.

Part Number

<u>AT</u> <u>9520</u> - <u>B</u> <u>2R4</u> <u>HAA</u> <u>□</u> ⑤ 6

Туре	AT : Antenna	② Dimensions (L×W)	9.5× 2.0 mm
3 Material Code	В	Frequency Range	2R4=2400MHz
Specification Code	НАА	© Packaging	T: Tape & Reel B: Bulk

Terminal Configuration

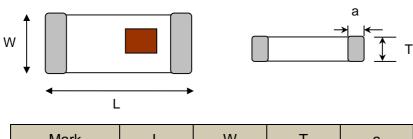


No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC



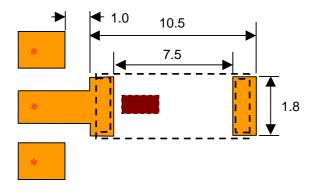
Dimensions and Recommended PC Board Pattern

Unit: mm

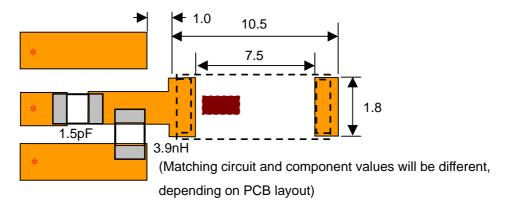


Mark	L	W	Т	а
Dimensions	9.5±0.2	2.0±0.2	1.2+ 0.1/-0.2	0.5±0.3

(a) Without Matching Circuits (Moderate Bandwidth)



(b) With Matching Circuits (Wide Bandwidth)

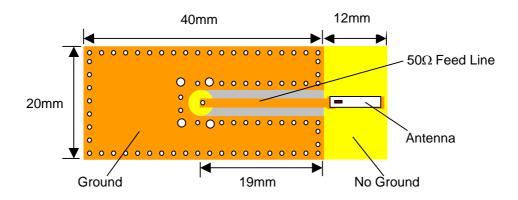


*Line width should be designed to match $50\,\Omega$ characteristic impedance, depending on PCB material and thickness.



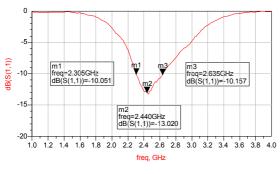
Typical Electrical Characteristics (T=25°C)

❖Test Board

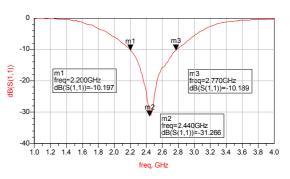


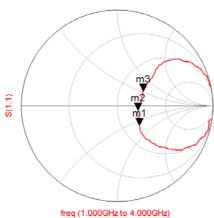
❖Return Loss

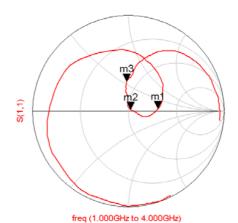
(a) Without Matching Circuits



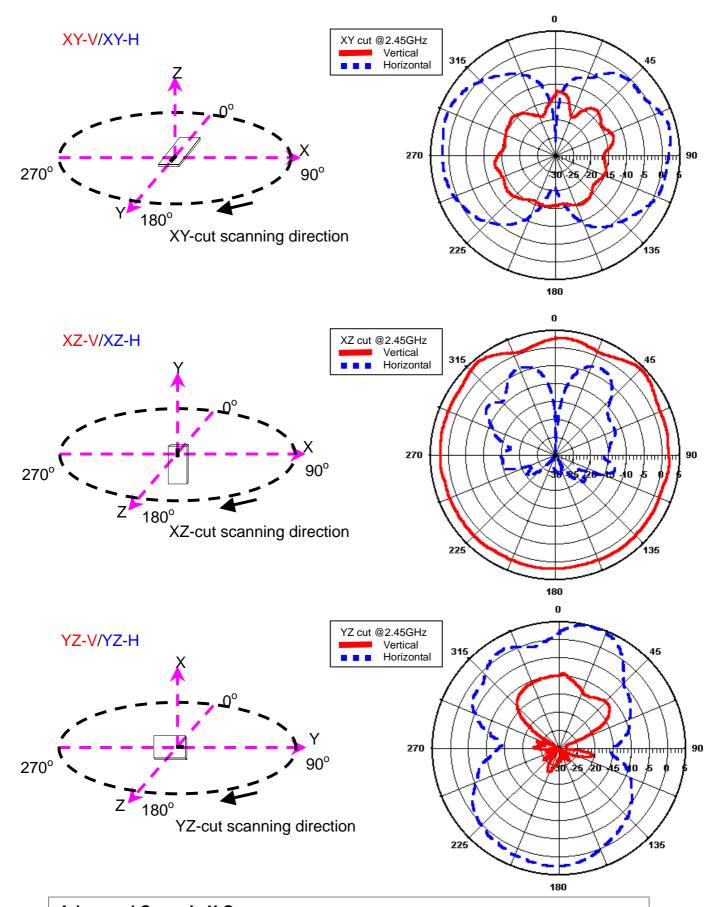
(b) With Matching Circuits











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