



BALON INTERNATIONAL LTD

日期：97 年 02 月 19 日

客戶：威普科技有限公司

品名：Multilayer Chip Antenne(ACX)

規格：AT9520-B2R4HAA 2400~2500MHz 50Ω SMD(Lead-Free)

客戶料號：

承認欄

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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

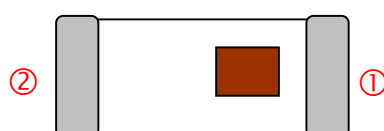
Q'ty/Reel (pcs) : 1000pcs
 Operating Temperature Range : -40 ~ +85 °C
 Storage Temperature Range : -40 ~ +85 °C
 Power Capacity : 3W max.

Part Number

AT 9520 - B 2R4 HAA □
 ① ② ③ ④ ⑤ ⑥

① Type	AT : Antenna	② Dimensions (L × W)	9.5× 2.0 mm
③ Material Code	B	④ Frequency Range	2R4=2400MHz
⑤ Specification Code	HAA	⑥ Packaging	T: Tape & Reel B: Bulk

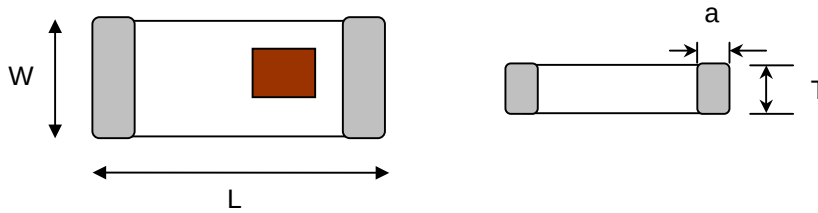
Terminal Configuration



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

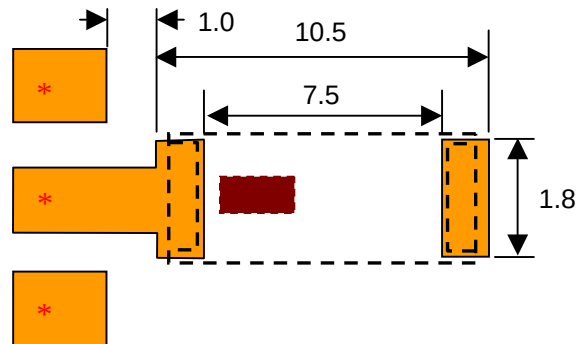
Dimensions and Recommended PC Board Pattern

Unit : mm

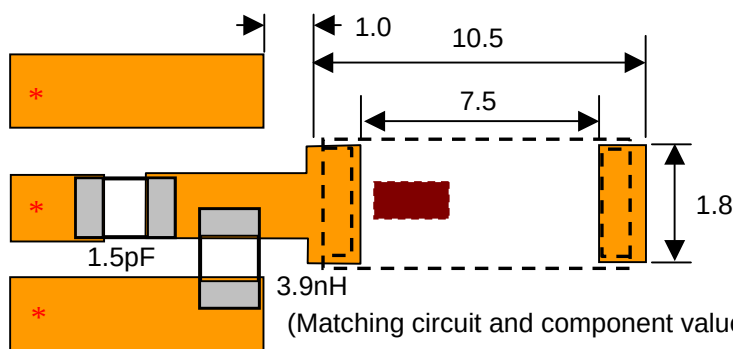


Mark	L	W	T	a
Dimensions	9.5 ± 0.2	2.0 ± 0.2	$1.2 + 0.1 / - 0.2$	0.5 ± 0.3

(a) Without Matching Circuits (Moderate Bandwidth)



(b) With Matching Circuits (Wide Bandwidth)

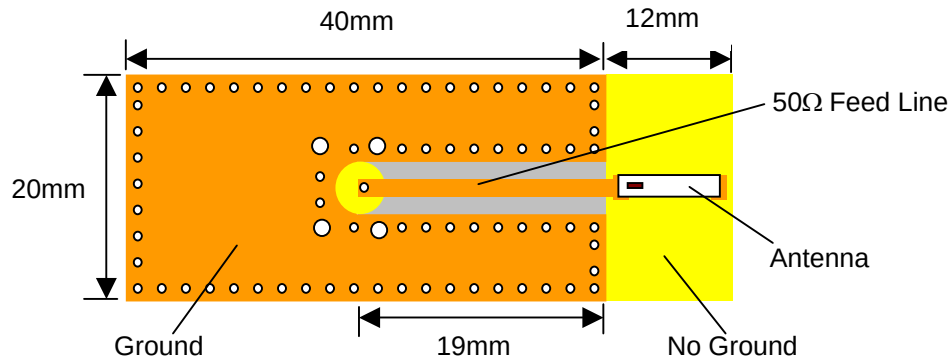


(Matching circuit and component values will be different,
depending on PCB layout)

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

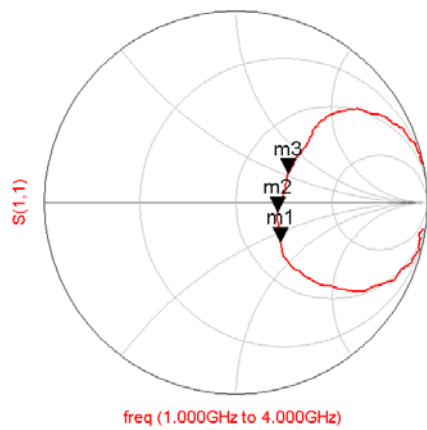
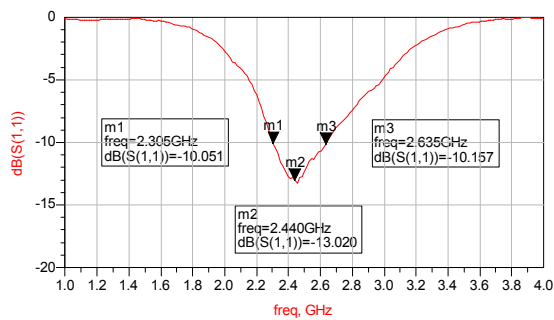
Typical Electrical Characteristics (T=25°C)

❖ Test Board

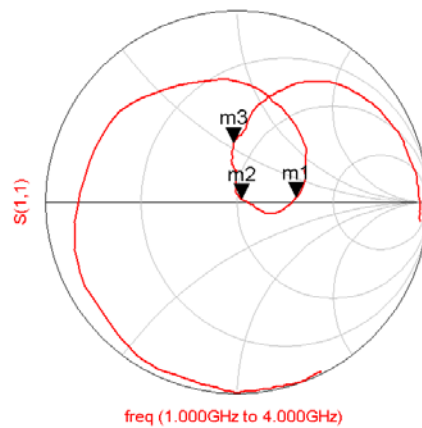
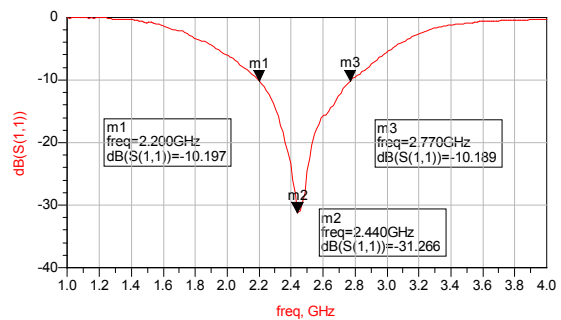


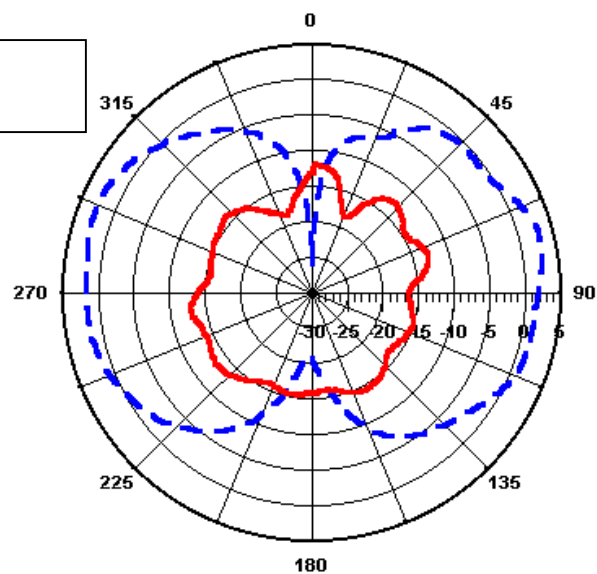
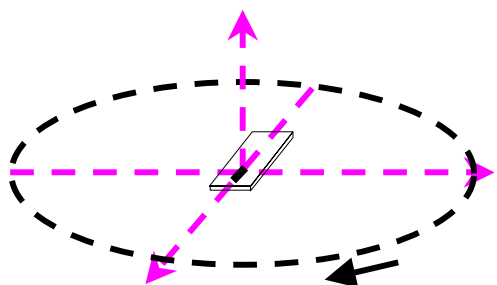
❖ Return Loss

(a) Without Matching Circuits

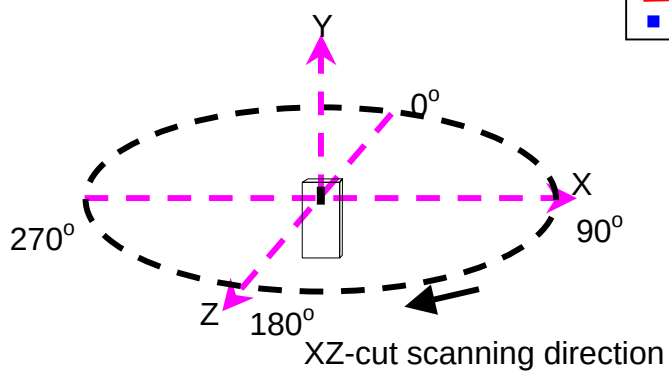
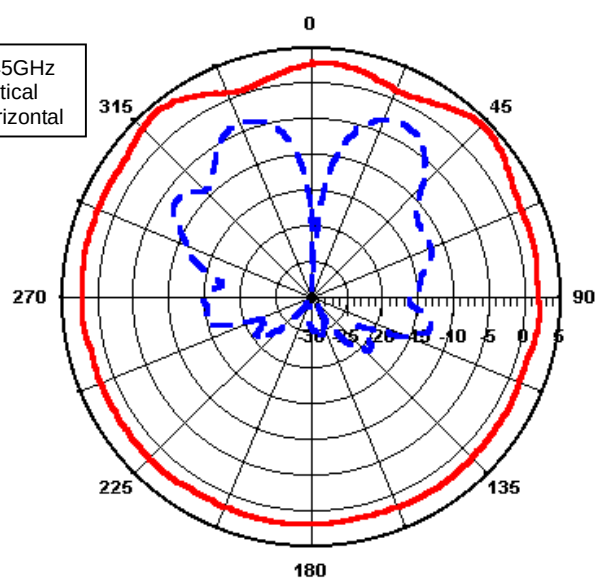


(b) With Matching Circuits

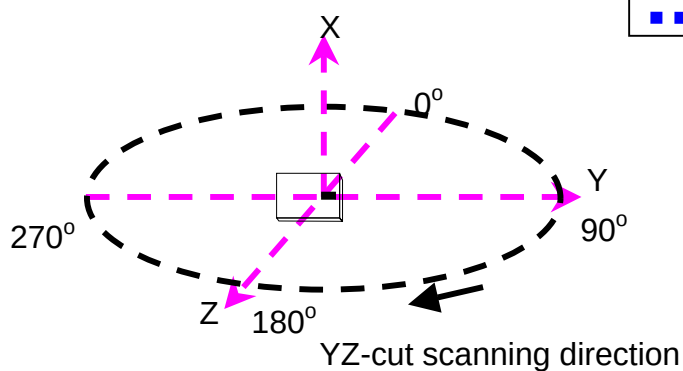




XZ-V/XZ-H

XZ cut @2.45GHz
— Vertical
--- Horizontal

YZ-V/YZ-H

YZ cut @2.45GHz
— Vertical
--- Horizontal