

AT8010 Series [Preliminary]

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 (dBi typ.)	Average Gain (dBi typ.)	VSWR	Impedance
AT8010 -E2R9HAA_	2400~2500	2.5 (XZ-V)	0.5 (XZ-V)	2 max.	50 Ω

Q'ty/Reel (pcs) : 1,000 pcs
Operating Temperature Range : -40 ~ +85 °C
Storage Temperature Range : -40 ~ +85 °C
Power Capacity : 3W max.

Part Number

<u>AT</u>	<u>8010</u>	- <u>E</u>	2R9	HAA		
1	2	(3) (4)	(5)	6	7

① Туре	AT : Antenna	② Dimensions (L×W)	8.0 × 1.0 mm
3 Material Code	Е	Frequency Range	2R9=2900MHz
Specification Code	НАА	© Packaging	T: Tape & Reel B: Bulk
Soldering	=lead-containing /LF=lead-free		

Terminal Configuration

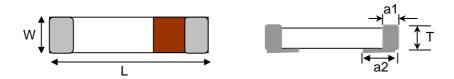


No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC



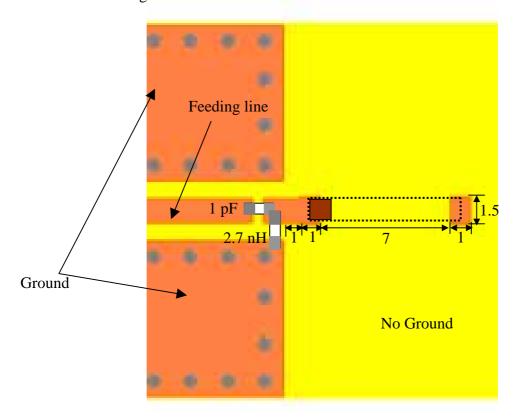
Dimensions and Recommended PC Board Pattern

Unit: mm



Mark	L	W	Т	a1	a2
Dimensions	8.0±0.2	1.0±0.2	1.0±0.2	0.5±0.2	1.0±0.2

❖With Matching Circuits (Unit in mm)



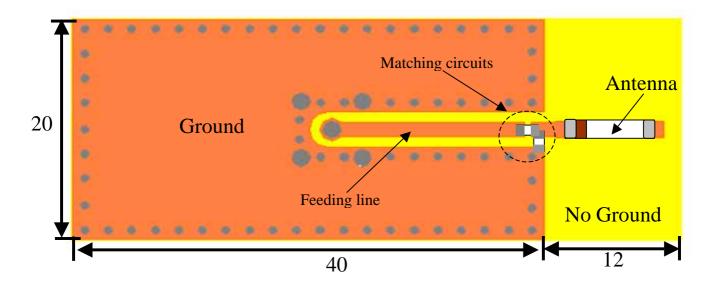
(Matching circuit and component values will be different, depending on PCB layout)

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

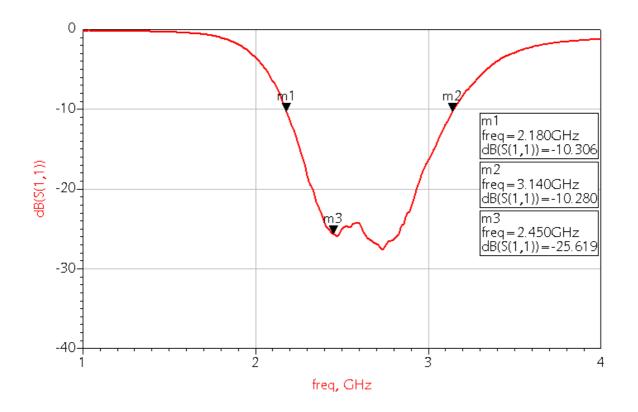


Typical Electrical Characteristics (T=25°C)

❖Test Board (Unit in mm)

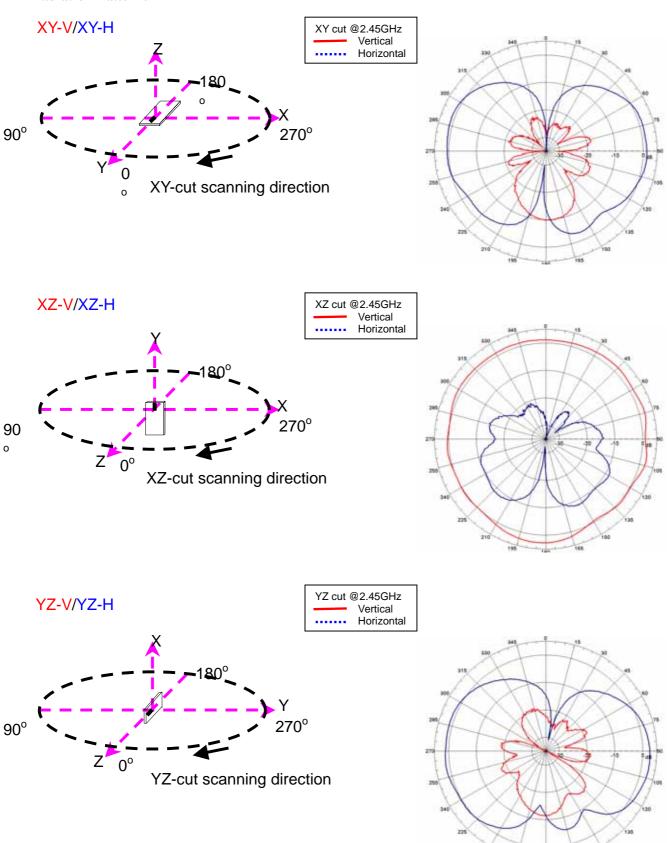


❖Return Loss / With Matching Circuits





*Radiation Patterns



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