

AT8010 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 (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 : $-40 \sim +85$ °C Storage Temperature Range : $-40 \sim +85$ °C Power Capacity : 3W max.

Part Number

<u>AT</u> <u>8010</u> - <u>E</u> <u>2R9</u> <u>HAA</u> <u>□</u> (S) (6)

① Туре	AT : Antenna	② Dimensions (L×W)	8.0 × 1.0 mm
3 Material Code	Е	4 Frequency Range	2R9=2900MHz
Specification Code	HAA	© Packaging	T: Tape & Reel B: Bulk

Terminal Configuration

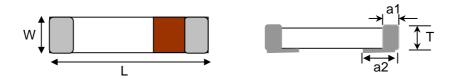


No	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC



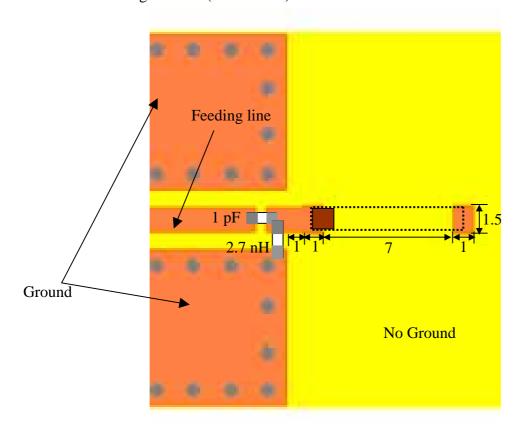
Dimensions and Recommended PC Board Pattern

Unit: mm



Mark	L	W	Т	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)

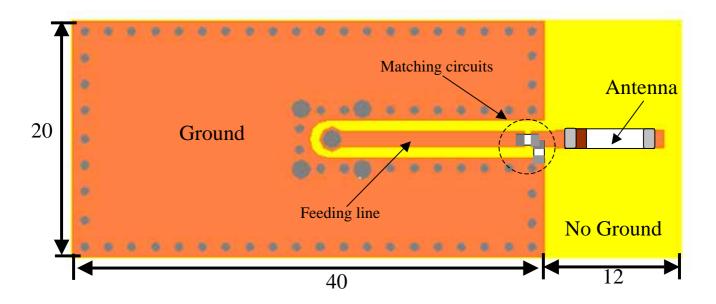


(Matching circuit and component values will be different, depending on PCB layout)

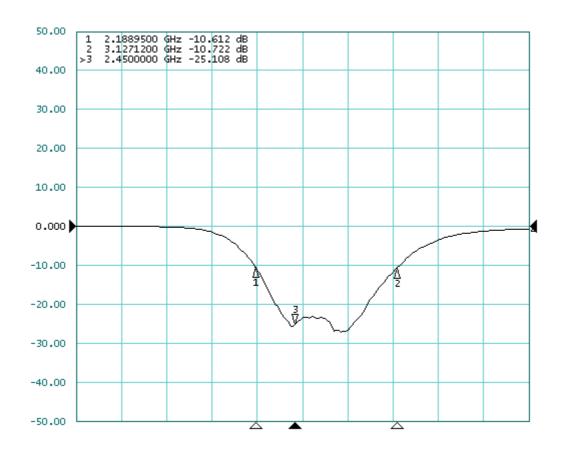
*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.



❖Test Board (Unit in mm)

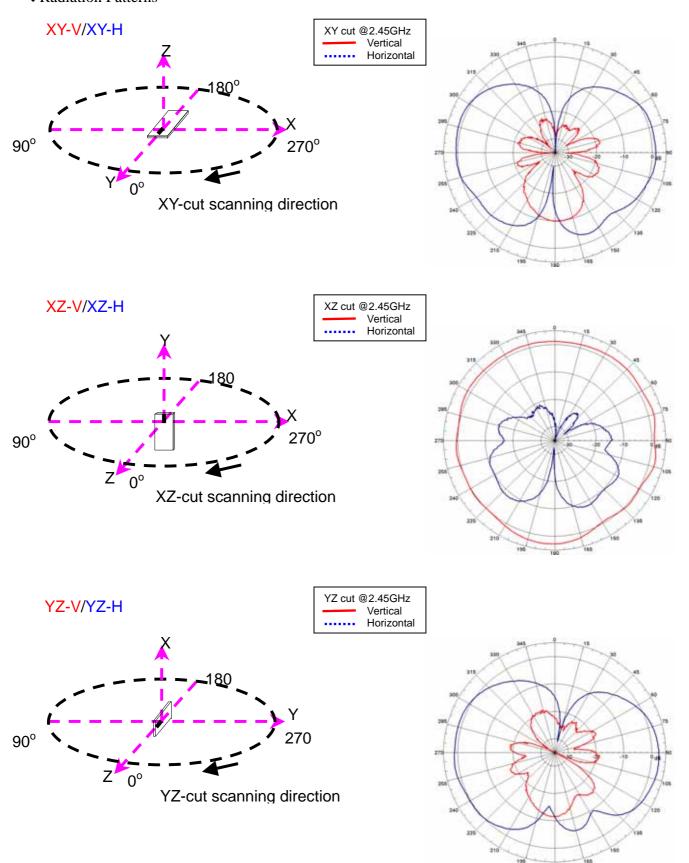


❖Return Loss / With Matching Circuits





❖Radiation Patterns



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