

AT1608 Series

Multilayer Chip Antenna

Features

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

Applications

- ❖ 2400~2500MHz ISM Band Systems



Specifications

Part Number	Frequency Range (MHz)	Peak Gain (dBi typ.)	Average Gain (dBi typ.)	VSWR	Impedance
AT1608-A2R4NAA_	2400~2480	0.5 (XZ-total)	-2.0 (XZ-total)	3 max.	50 Ω

(*Electrical specification is defined by the measurement of Scenario#1)

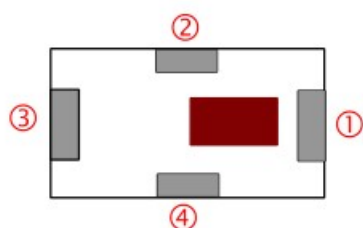
Q'ty/Reel (pcs) : 4,000 pcs
 Operating Temperature Range : -40 ~ +85 °C
 Storage Temperature Range : -40 ~ +85 °C
 Storage Period : 12 months max.
 Power Capacity : 2W max.

Part Number

AT 1608 - A 2R4 NAA □ □
 ① ② ③ ④ ⑤ ⑥ ⑦

① Type	AT : Antenna	② Dimensions (L × W)	1.6× 0.8 mm
③ Material Code	A	④ Frequency Range	2R4=2400MHz
⑤ Specification Code	NAA	⑥ Packaging	T: Tape & Reel B: Bulk
⑦ Soldering	/LF=lead-free		

Terminal Configuration

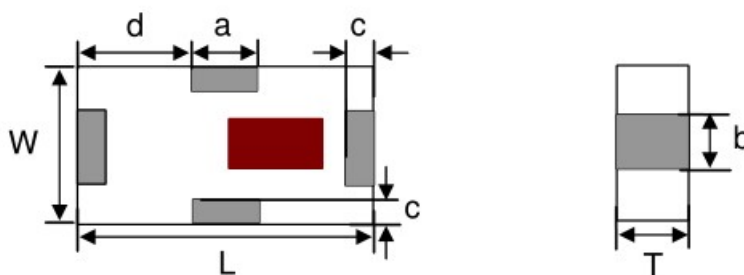


Scenario#1: Antenna on the edge side of PCBA			
No.	Terminal Name	No.	Terminal Name
①	Feeding Point	③	NC
②	GND	④	GND

Scenario#2: Antenna on the corner of PCBA			
No.	Terminal Name	No.	Terminal Name
①	Feeding Point	③	NC
②	NC	④	NC

Dimensions and Recommended PC Board Pattern

Unit : mm



Mark	L	W	T	a	b	c	d
Dimensions	1.6 ± 0.1	0.8 ± 0.1	0.4 ± 0.1	0.5± 0.1	0.5± 0.1	0.2 ± 0.05	0.55 ± 0.1

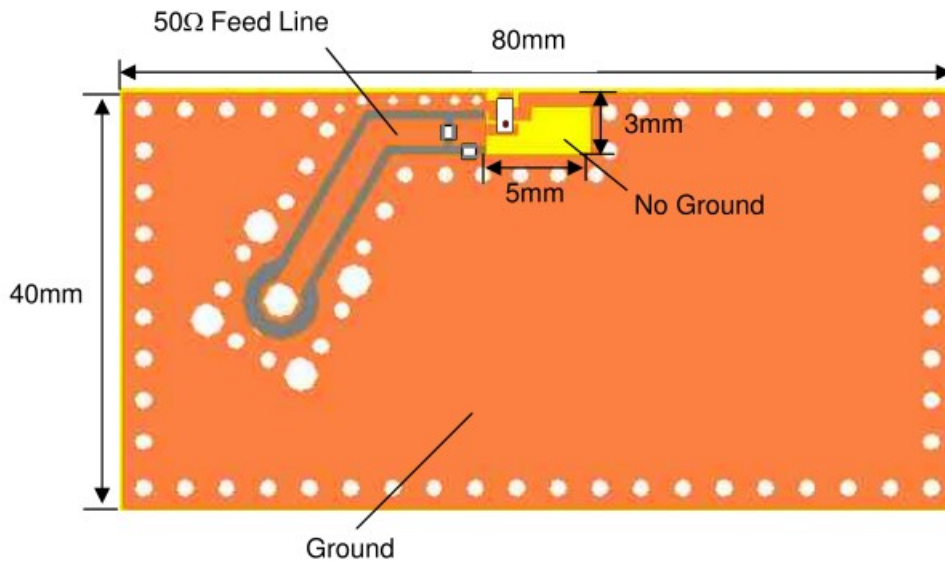
<http://www.btian.com.cn>

185-8843-5432 Kevin

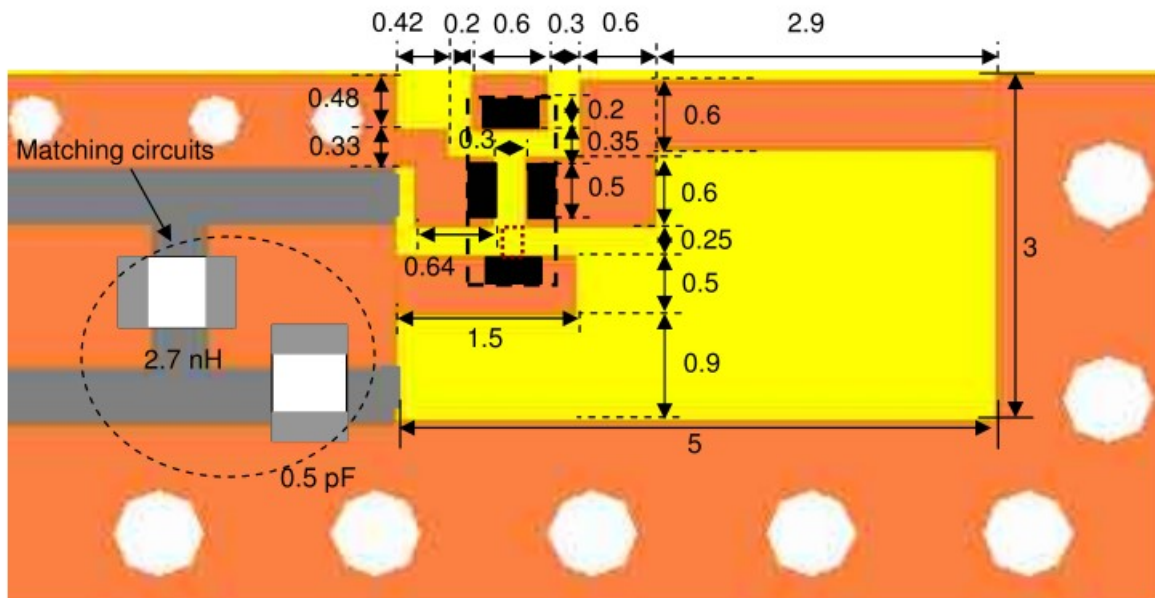
2851897924 QQ

Typical Electrical Characteristics for Scenario#1 (T=25°C)

❖ Test Board-Scenario#1



❖ Antenna Footprint With matching- Scenario#1 (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.