

Application of AT5020 Series

Multilayer Chip Antenna

Features

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

Applications

- ❖ Bluetooth/Wireless LAN/Home RF
- ❖ ISM band 2.4GHz applications

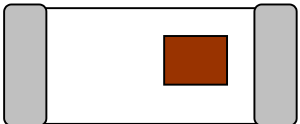


Part Number

AT 5020 - B 2R8 HAA □
① ② ③ ④ ⑤ ⑥

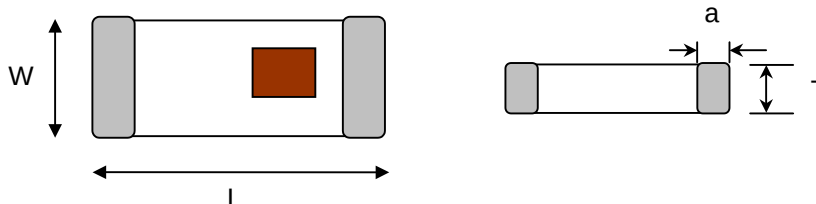
① Type	AT : Antenna	② Dimensions (L × W)	5.0× 2.0 mm
③ Material Code	B	④ Frequency Range	2R8=2800MHz
⑤ Specification Code	HAA	⑥ Packaging	T: Tape & Reel B: Bulk

Terminal Configuration

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

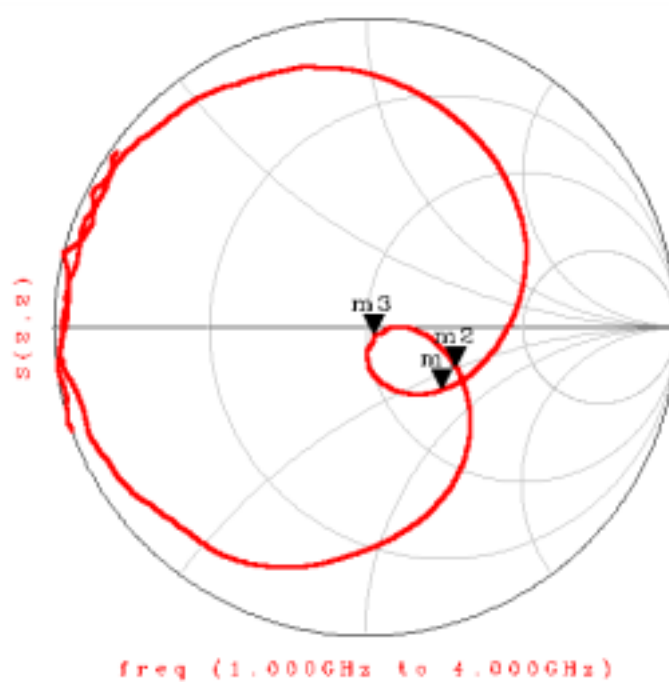
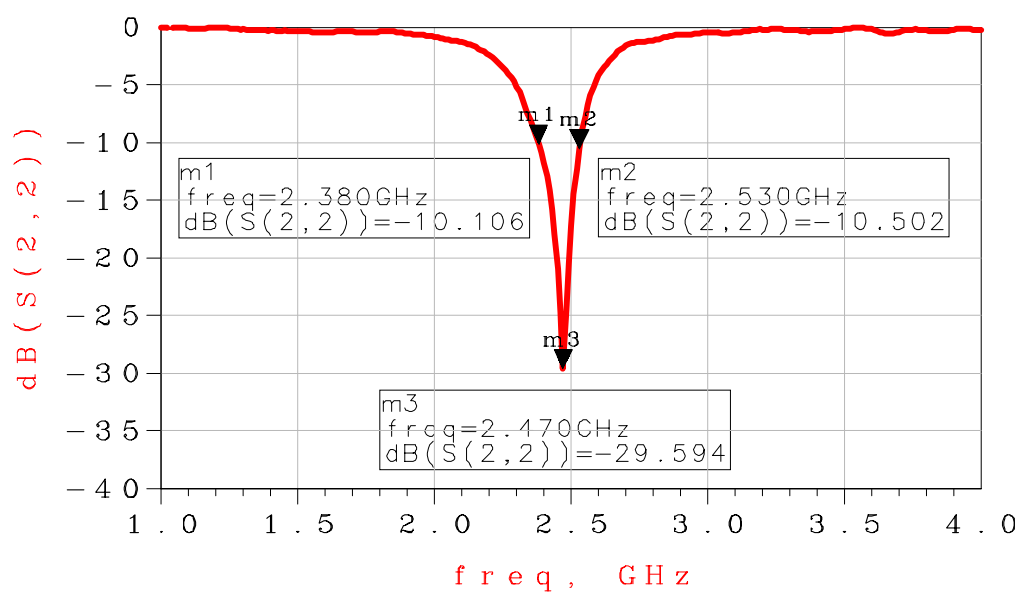
Dimensions and Recommended PC Board Pattern

Unit : mm



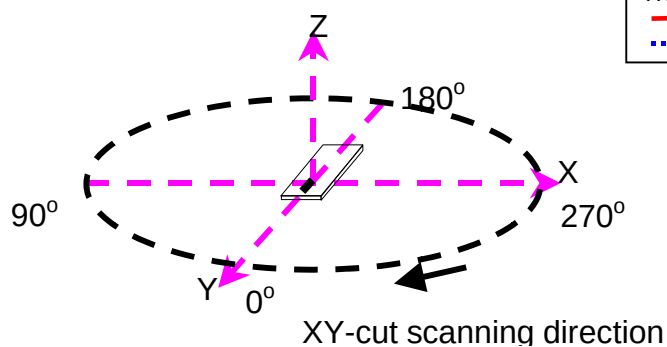
	L	W	T	a
Dimensions	5.0 ± 0.2	2.0 ± 0.2	1.0 ± 0.2	0.5 ± 0.3

❖Return Loss

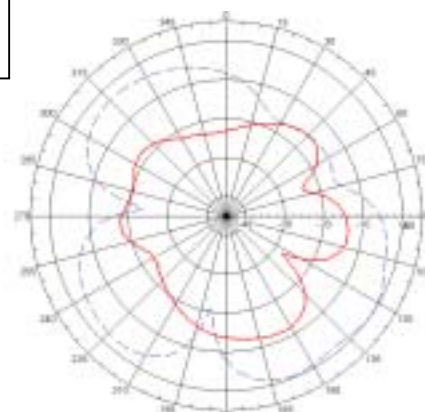


Radiation Patterns

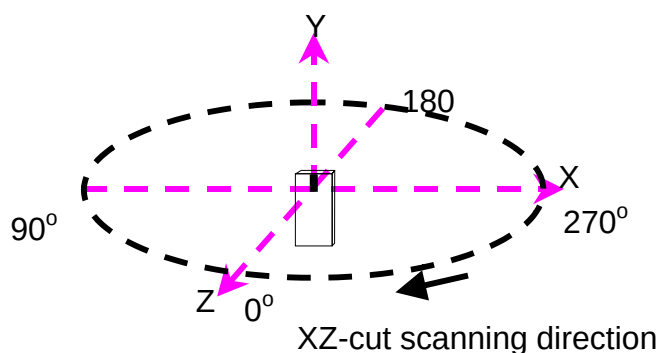
XY-V/XY-H



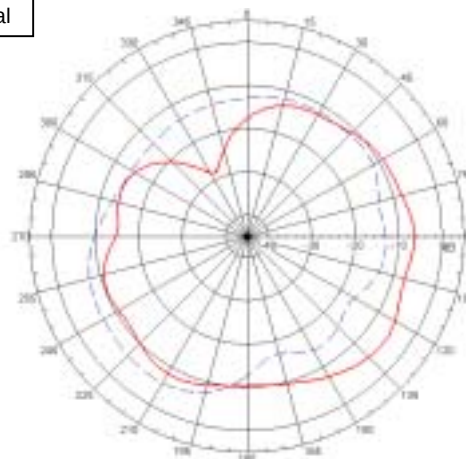
XY cut @2.45GHz
— Vertical
... Horizontal



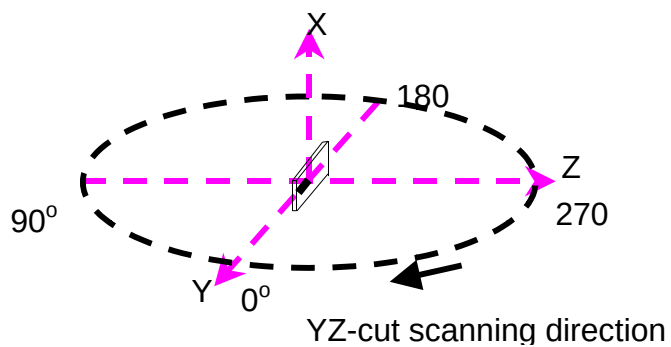
XZ-V/XZ-H



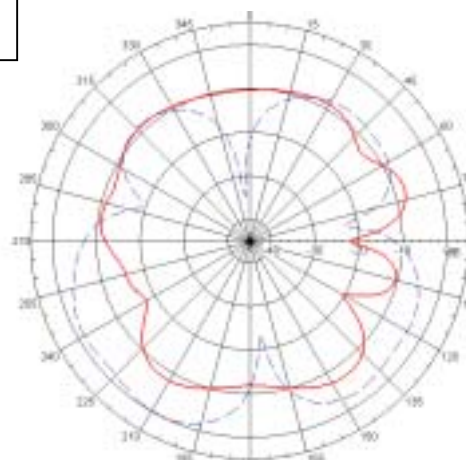
XZ cut @2.45GHz
— Vertical
... Horizontal



YZ-V/YZ-H



YZ cut @2.45GHz
— Vertical
... Horizontal



Maximum & Average Gain

(dBi)

	XY-V	XY-H	XZ-V	XZ-H	YZ-V	YZ-H
Maximum	-12.04	-0.3	-5.21	-5.84	-7.83	-0.21
Average	-17.22	-4.99	-10.01	-10.9	-10.51	-5.75

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