

# **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**

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

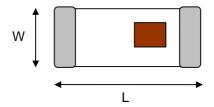
# **Terminal Configuration**

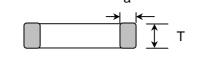


No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC

# **Dimensions and Recommended PC Board Pattern**

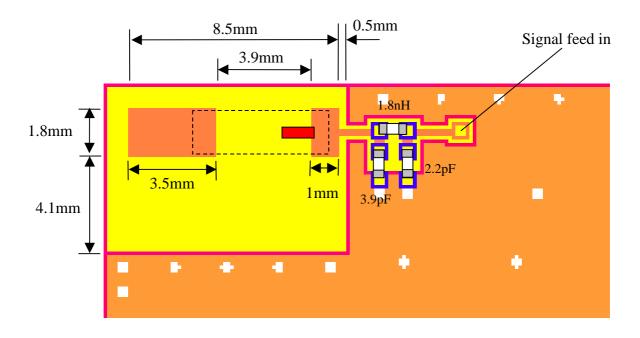
Unit: mm





	L	W	Т	а
Dimensions	5.0 ± 0.2	2.0 ±0.2	1.0 ±0.2	$0.5 \pm 0.3$

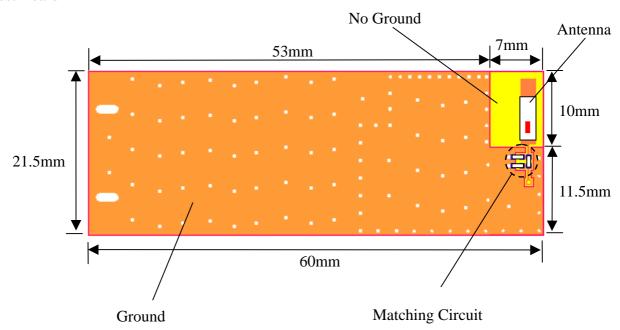




<sup>\*</sup>Line width should be designed to match  $50\Omega$  characteristic impedance, depending on PCB material and thickness.

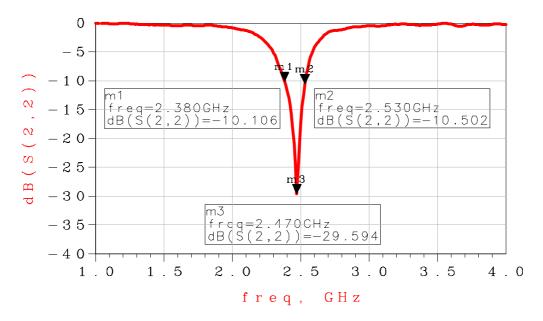
# Typical Electrical Characteristics (T=25°C)

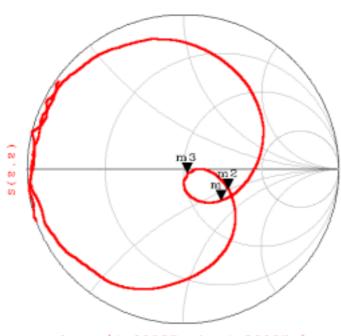
# ❖Test Board





#### ❖Return Loss

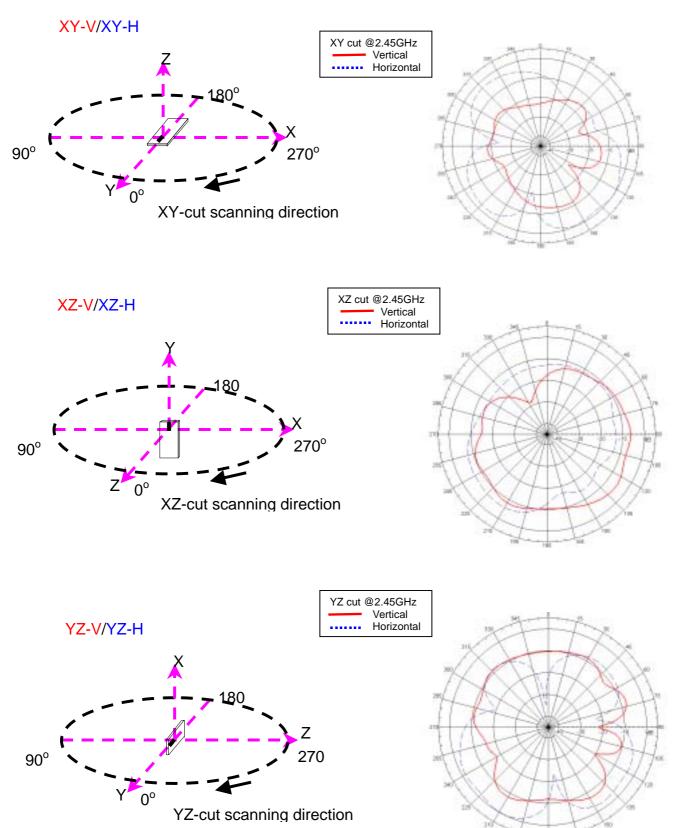




freq (1.000GHz to 4.000GHz)



## **Radiation Patterns**





# 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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