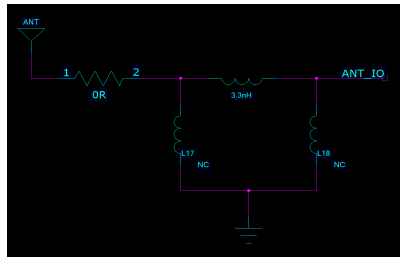


Q1: Manufacturers : Shenzhen Muyu Technology Co., Ltd
Q2 : Antenna matching circuit :



Q3 : Frequency:2400 ~ 2500 MHz

Bluetooth antenna specification

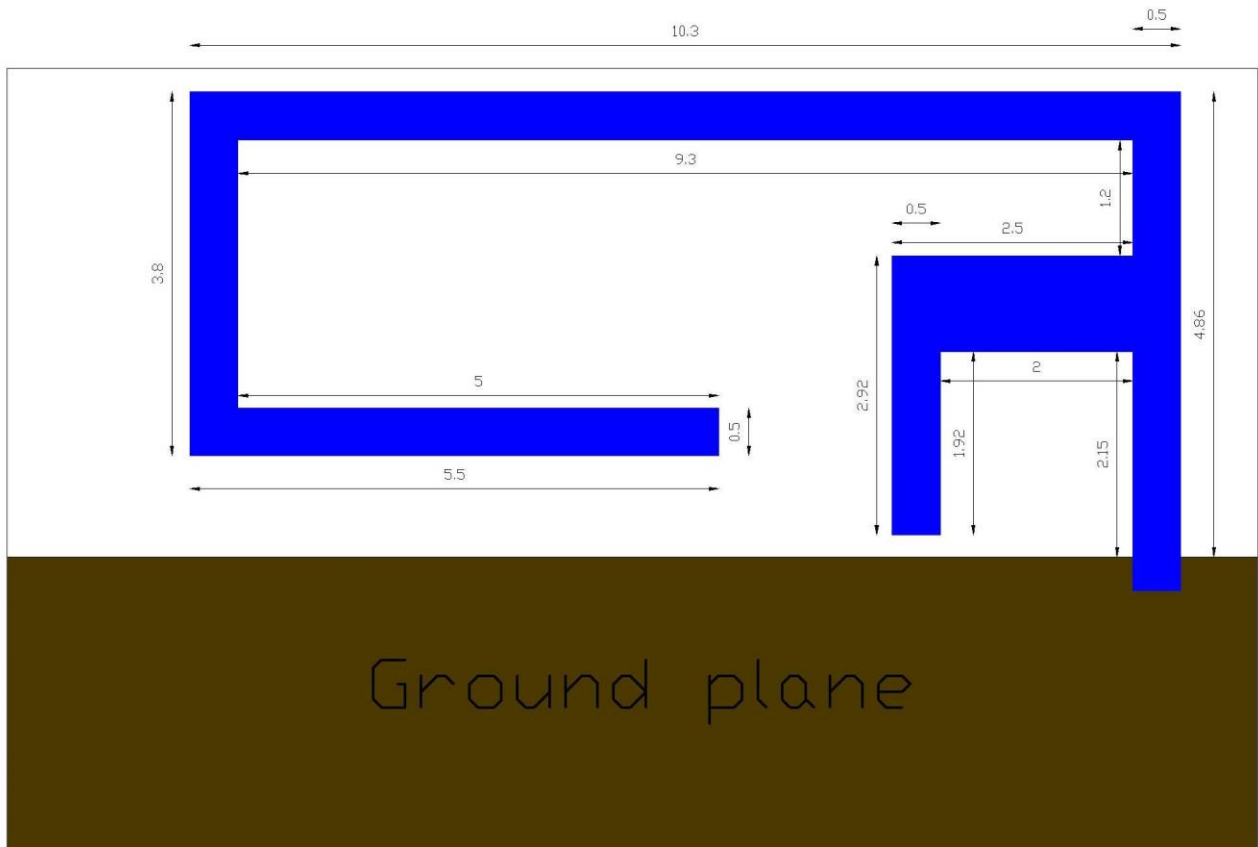
1, Index

| Item | Content | Page | Remark |
|------|-----------------------|------|--------|
| 1 | Index | 1 | |
| 2 | Spec Drawing | 2 | |
| 3 | Specification | 2 | |
| 4 | Antenna On Test Board | 3 | |
| 5 | Return Loss | 3 | |
| 6 | Radiation Pattern | 3 | |

Document Type: 2.4GHZ PCB antenna
Document Version: V1.2
Release Date: 2021-9-1

2, Spec Drawing

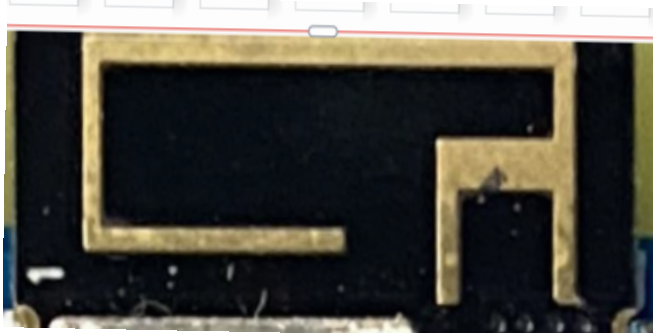
Unit: mm



3, Specification

Product Number: 2.4GHZ PCB antenna

Sample Photo:



A. Electrical Characteristics

| | |
|--------------|-----------------|
| Frequency | 2400 ~ 2500 MHz |
| S.W.R. | ≤ 2.0 |
| Gain | 1.98 dBi |
| Efficiency | ~ 40% |
| Polarization | Linear |
| Impedance | 50 Ohm |

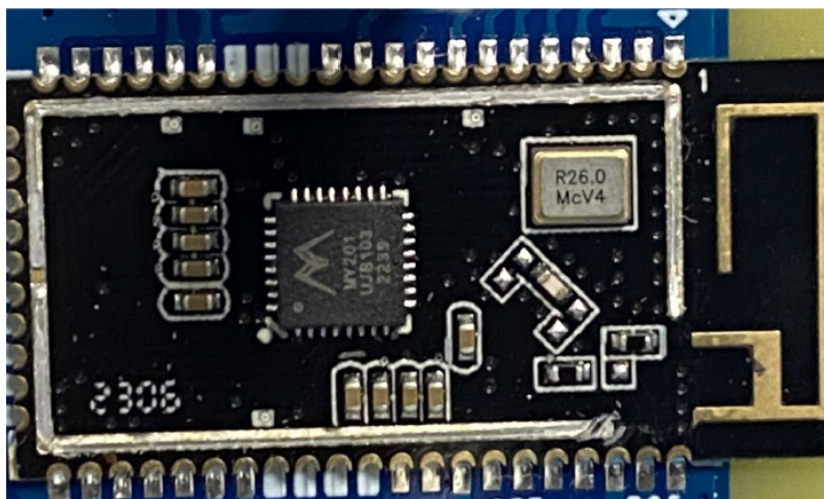
B. Material & Mechanical Characteristics

| | |
|----------------------|--------|
| Material of Radiator | copper |
|----------------------|--------|

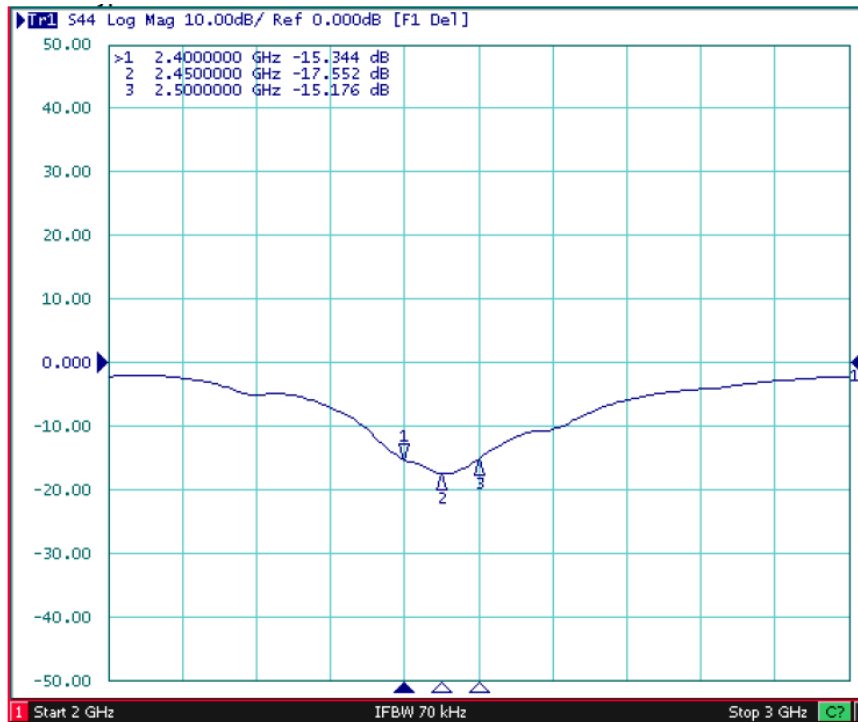
C. Environmental

| | |
|-----------------------|------------------|
| Operation Temperature | - 40°C ~ + 85°C |
| Storage Temperature | - 40°C ~ + 105°C |

4, Antenna On Test Board



5, Return Loss



6, Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of coil antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.

| | Vertical | Horizontal |
|--|--|---|
| Y - Z Plane Average 2420MHz Gain=1.86 dBi | | |
| | Peak Gain = 1.98 dBi Average Gain = 0.71 dBi | Peak Gain = -1.37 dBi Average Gain = -4.6 dBi |
| X - Z Plane Average 2450MHz Gain=-2.91dBi | | |
| | Peak Gain = -3.76 dBi Average Gain = -8.72dBi | Peak Gain = -0.25 dBi Average Gain = -4.24 dBi |
| X - Y Plane Average 2480MHz Gain=-0.95 dBi | | |
| | Peak Gain = 0.76 dBi Average Gain = -5.81dBi | Peak Gain = 1.37 dBi Average Gain = -2.67 dBi |