

# Bluetooth antenna of PCB on-board specification

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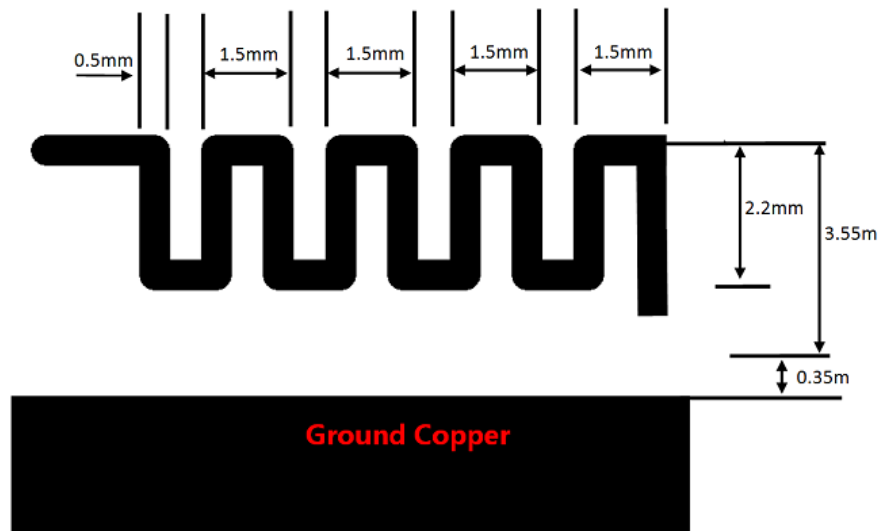
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## 2, Spec Drawing



## 3, Specification

Product Number: 2.4GHZ PCB antenna

Sample Photo:



### A. Electrical Characteristics

|              |                 |
|--------------|-----------------|
| Frequency    | 2400 ~ 2500 MHz |
| S.W.R.       | $\leq 2.0$      |
| Gain         | -0.81 dBi       |
| Efficiency   | ~ 17%           |
| Polarization | Linear          |
| Impedance    | 50 Ohm          |

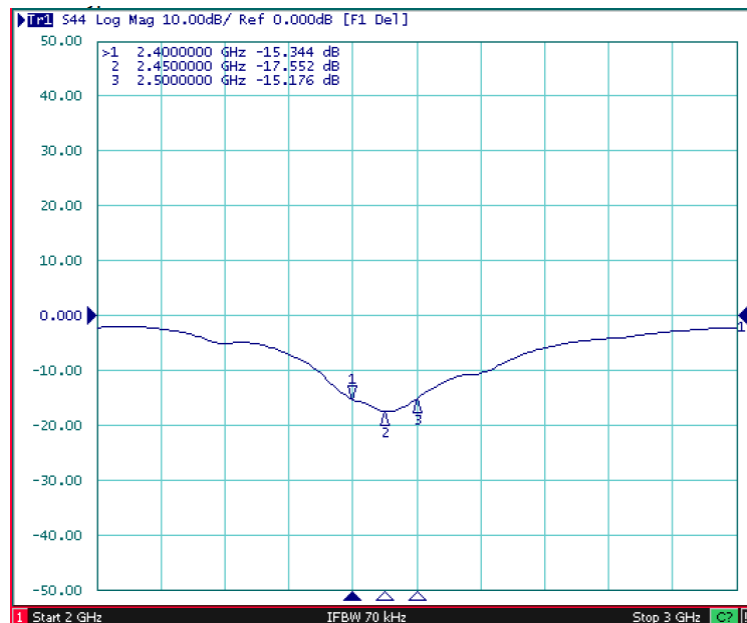
### B. Material & Mechanical Characteristics

|                      |                    |
|----------------------|--------------------|
| Material of Radiator | Gold-plated copper |
|----------------------|--------------------|

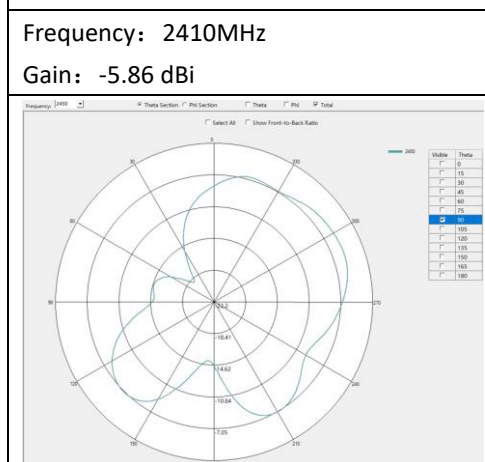
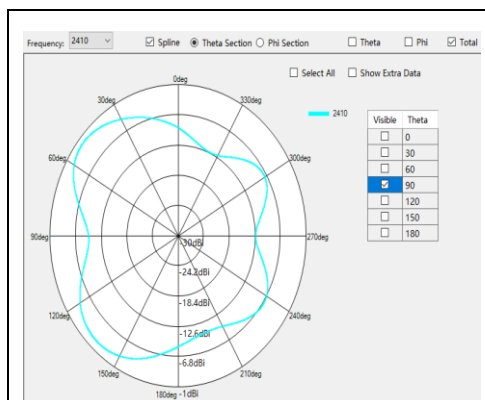
### C. Environmental

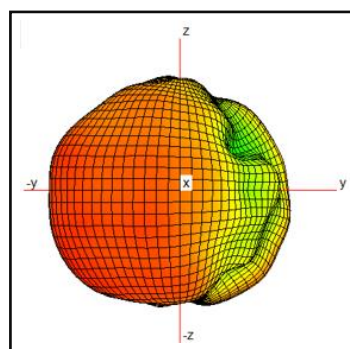
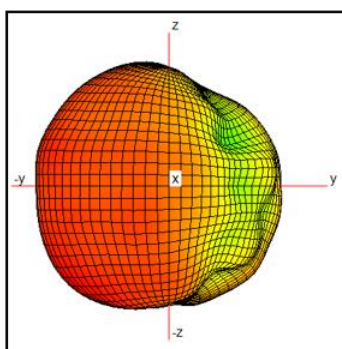
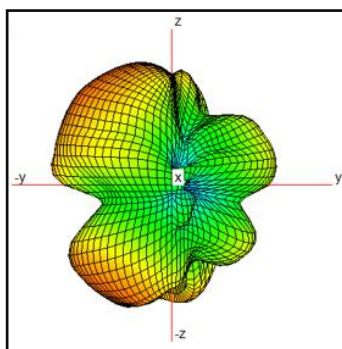
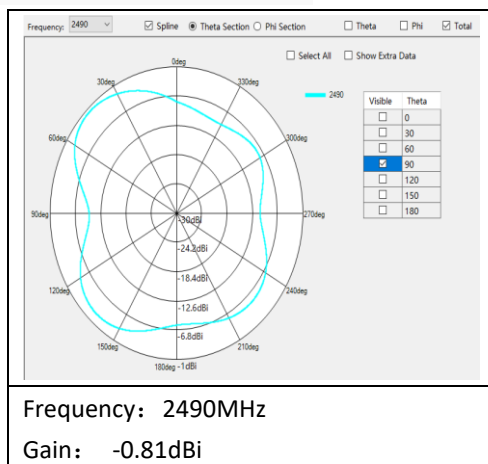
|                       |                  |
|-----------------------|------------------|
| Operation Temperature | - 40°C ~ + 85°C  |
| Storage Temperature   | - 40°C ~ + 105°C |

## 4, Return Loss



## 5, Radiation Pattern





## Test Result:

| Frequency | Gain (dBi) | Efficiency % |
|-----------|------------|--------------|
| 2400MHz   | -6.22      | 11.51        |
| 2410MHz   | -5.86      | 13.14        |
| 2420MHz   | -5.48      | 12.02        |
| 2430MHz   | -4.68      | 12.62        |
| 2440MHz   | -3.98      | 13.19        |
| 2450MHz   | -3.26      | 15.17        |
| 2460MHz   | -2.41      | 18.36        |
| 2470MHz   | -1.69      | 21.39        |
| 2480MHz   | -1.16      | 23.28        |
| 2490MHz   | -0.81      | 24.93        |
| 2500MHz   | -0.82      | 25.04        |