

# Antenna Specification

Product description: 2.4G PCB Antenna

Uni Link's part number:ANTENNA-2400-2500A(Zigbee)

Issue Date:2024-12-02

Note:2400-2500MHZ  
Manufacturer:Shenzhen Sonoff Technologies Co.,Ltd.

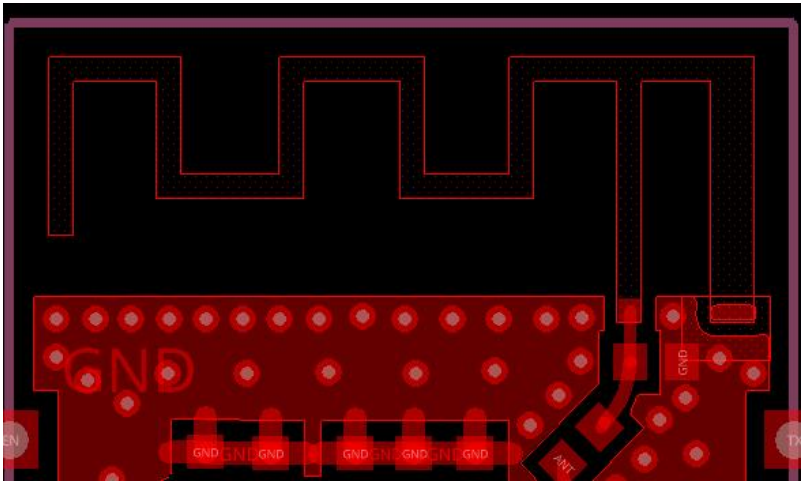
Address:  
  
3F& 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong, China

## 1、(PRODUCT TECHNICAL SPECIFICATION)

| Electrical Specifications    |            |
|------------------------------|------------|
| Frequency Range(MHz)         | 2400-2500  |
| Input Impendence( $\Omega$ ) | 50         |
| V.S.W.R                      | $\leq 1.5$ |
| Gain(dBi)                    | 0.85       |
| Polarization Type            | Horizontal |
| Power Capacity(w)            | 2          |
| Mechanical Specifications    |            |
| Antenna Length(mm)           |            |
| Radiator                     | Cuprum     |
| Connect Type                 | NC         |
| Working Temp( $^{\circ}$ C)  | -10~40     |

|                         |         |
|-------------------------|---------|
| Storage Temperature(°C) | -20~55  |
| antenna size            | PCB ant |
| Weight(g)               |         |

The size of the antenna(mm):



2.Image of antenna S11



3.Antenna gain

Antenna Test Report (Passive-BW)

Date: 11-27-2024

Comments:  
This antenna is good. Yeah!

| Test Point ID | Freq. (MHz) | TRP (dBm) | Gain (dBi) | Directivity y (dBi) | Efficiency y (%) | Efficiency y (dB) | Max (dBm) | Theta of Max | Phi of Max | Min (dBm) | Theta of Min | Phi of Min | AVG (dB) | Max/Min (dB) | Max/AVG (dB) | Min/AVG (dB) |
|---------------|-------------|-----------|------------|---------------------|------------------|-------------------|-----------|--------------|------------|-----------|--------------|------------|----------|--------------|--------------|--------------|
| 1             | 2400.0      | 2400.00   | 0.55       | 5.86                | 31.6%            | -5.01             | 0.85      | 105          | 120        | -95.99    | 0            | 0          | -5.16    | 96.84        | 6.01         | -90.83       |
| 2             | 2410.0      | 2410.00   | 0.75       | 5.98                | 32.1%            | -4.94             | 1.04      | 105          | 120        | -95.99    | 0            | 0          | -4.88    | 97.03        | 5.92         | -91.11       |
| 3             | 2420.0      | 2420.00   | 0.67       | 6.17                | 34.3%            | -4.64             | 1.53      | 105          | 120        | -95.99    | 0            | 0          | -4.33    | 97.52        | 5.87         | -91.66       |
| 4             | 2430.0      | 2430.00   | 0.72       | 6.27                | 38.1%            | -4.19             | 2.07      | 105          | 120        | -95.99    | 0            | 0          | -3.74    | 98.06        | 5.81         | -92.25       |
| 5             | 2440.0      | 2440.00   | 0.36       | 6.15                | 36.7%            | -4.36             | 1.79      | 105          | 120        | -95.99    | 0            | 0          | -3.98    | 97.78        | 5.77         | -92.01       |
| 6             | 2450.0      | 2450.00   | 0.28       | 6.00                | 37.9%            | -4.21             | 1.79      | 105          | 120        | -95.99    | 0            | 0          | -3.84    | 97.78        | 5.63         | -92.15       |
| 7             | 2460.0      | 2460.00   | 0.50       | 5.82                | 40.1%            | -3.97             | 1.85      | 105          | 135        | -95.99    | 0            | 0          | -3.61    | 97.84        | 5.46         | -92.38       |
| 8             | 2470.0      | 2470.00   | 0.85       | 5.56                | 41.5%            | -3.82             | 1.75      | 105          | 135        | -95.99    | 0            | 0          | -3.67    | 97.73        | 5.42         | -92.32       |
| 9             | 2480.0      | 2480.00   | 0.44       | 5.18                | 41.6%            | -3.81             | 1.37      | 105          | 135        | -95.99    | 0            | 0          | -4.04    | 97.36        | 5.41         | -91.96       |
| 10            | 2490.0      | 2490.00   | 0.62       | 5.17                | 40.2%            | -3.96             | 1.21      | 105          | 135        | -95.99    | 0            | 0          | -4.28    | 97.20        | 5.49         | -91.71       |
| 11            | 2500.0      | 2500.00   | 0.63       | 5.14                | 41.9%            | -3.78             | 1.36      | 105          | 135        | -95.99    | 0            | 0          | -4.17    | 97.35        | 5.53         | -91.82       |

