

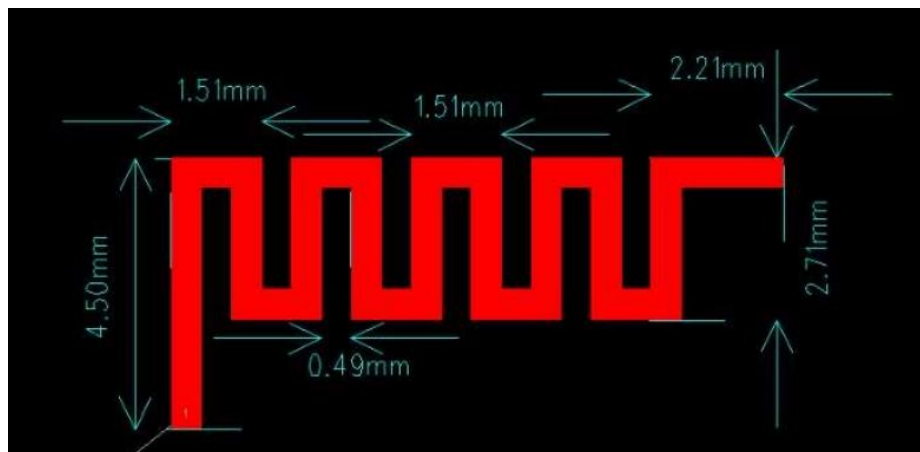
# Antenna Specification

## Specifications

### Summary

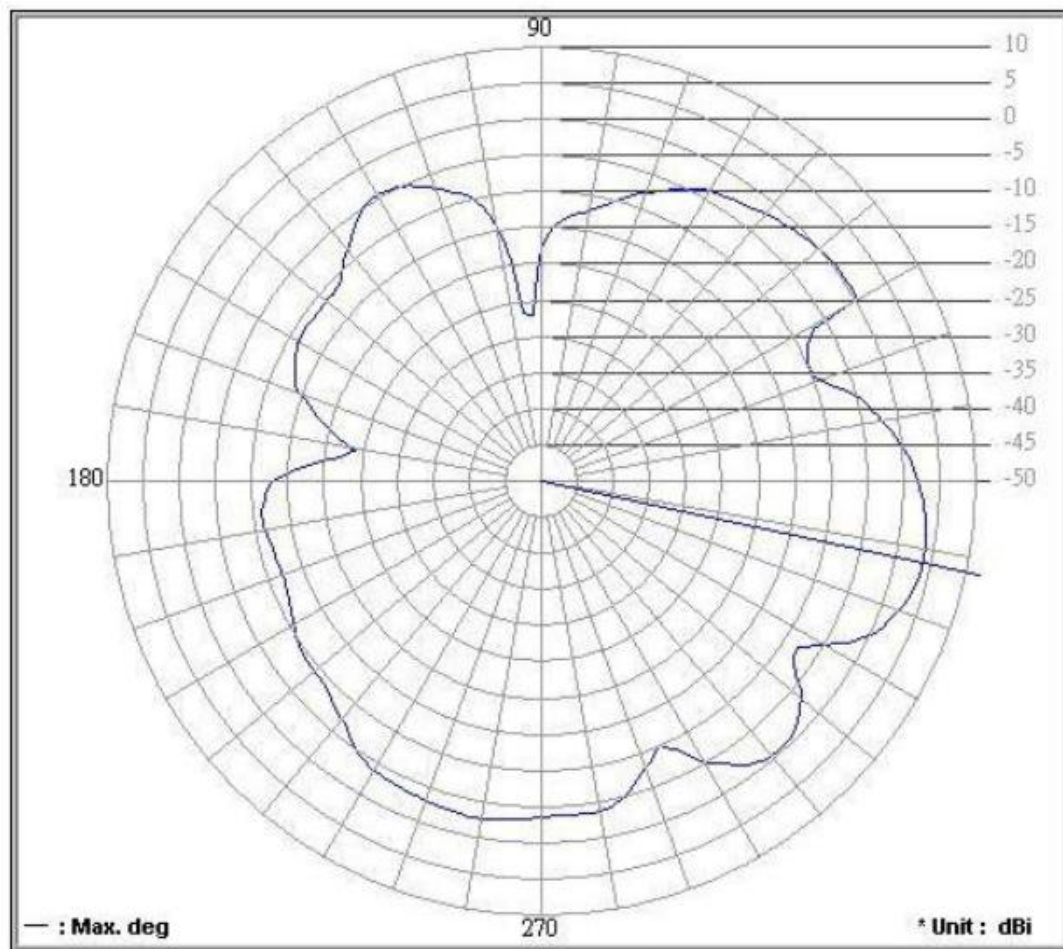
| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Center Frequency     | 2402 MHz         | 3.85 dBi |
|                      | 2441 MHz         | 3.18 dBi |
|                      | 2480 MHz         | 2.80 dBi |
| MAX. GAIN            | 3.85 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 6.6 mm           |          |

### Antenna Photo & Length



## 1.Main antenna : 2402 MHz

### 1.1 Horizontal



Frequency (MHz) : **2402.00**

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-3.64**

Maximum Gain (dB) : **3.85**

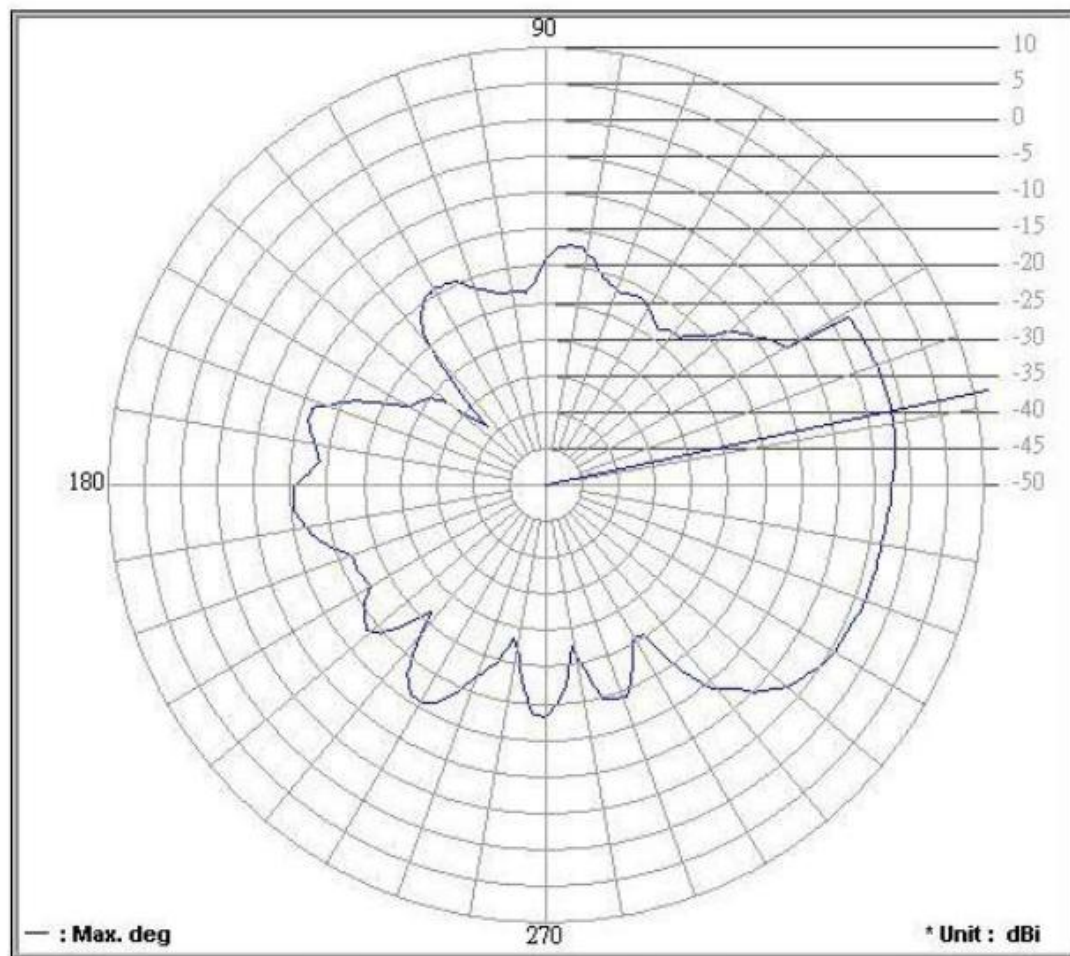
Maximum Gain (degree) : **348**

Minimum Gain (dB) : **-27.08**

Minimum Gain (degree) : **93**

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## 1.2 Vertical



Frequency (MHz) : **2402.00**

Antenna Polarity : **Vertical**

Average Gain (dB) : **-9.57**

Maximum Gain (dB) : **-1.54**

Maximum Gain (degree) : **12**

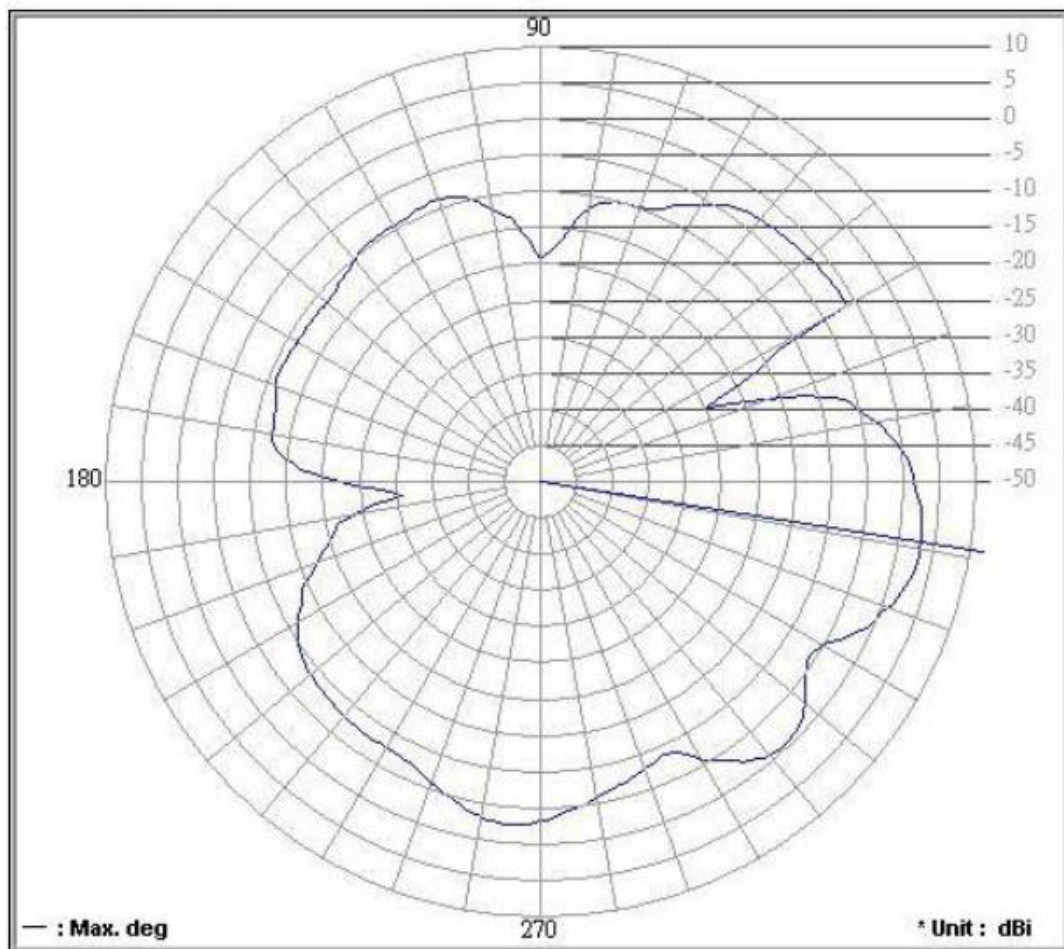
Minimum Gain (dB) : **-38.76**

Minimum Gain (degree) : **135**

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## 2.Main antenna : 2441MHz

### 2.1 Horizontal



Frequency (MHz) : **2441.00**

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-4.64**

Maximum Gain (dB) : **3.18**

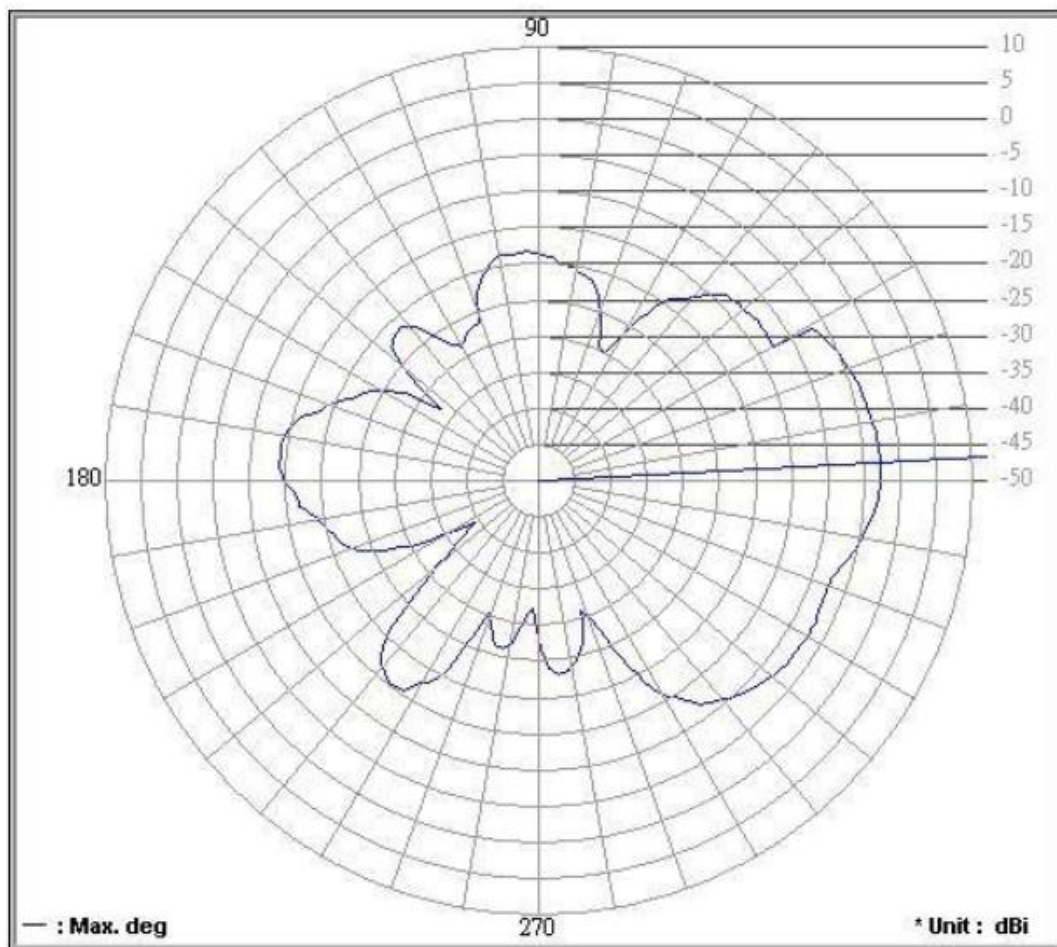
Maximum Gain (degree) : **351**

Minimum Gain (dB) : **-30.92**

Minimum Gain (degree) : **186**

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## 2.2 Vertical



Frequency (MHz) : **2441.00**

Antenna Polarity : **Vertical**

Average Gain (dB) : **-11.06**

Maximum Gain (dB) : **-2.58**

Maximum Gain (degree) : **3**

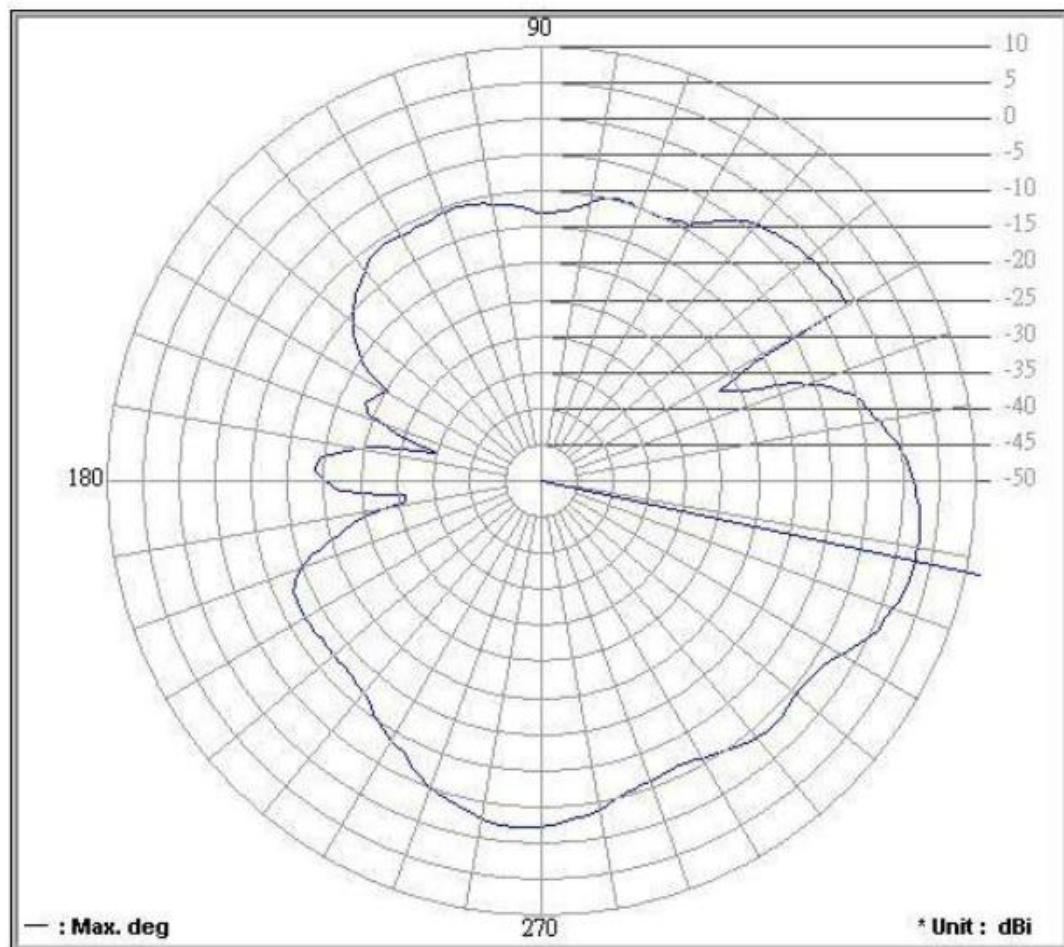
Minimum Gain (dB) : **-39.35**

Minimum Gain (degree) : **213**

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### 3.Main antenna : 2480 MHz

#### 3.1 Horizontal



Frequency (MHz): **2480.00**

Antenna Polarity : **Horizontal**

Average Gain (dB): **-4.84**

Maximum Gain (dB): **2.80**

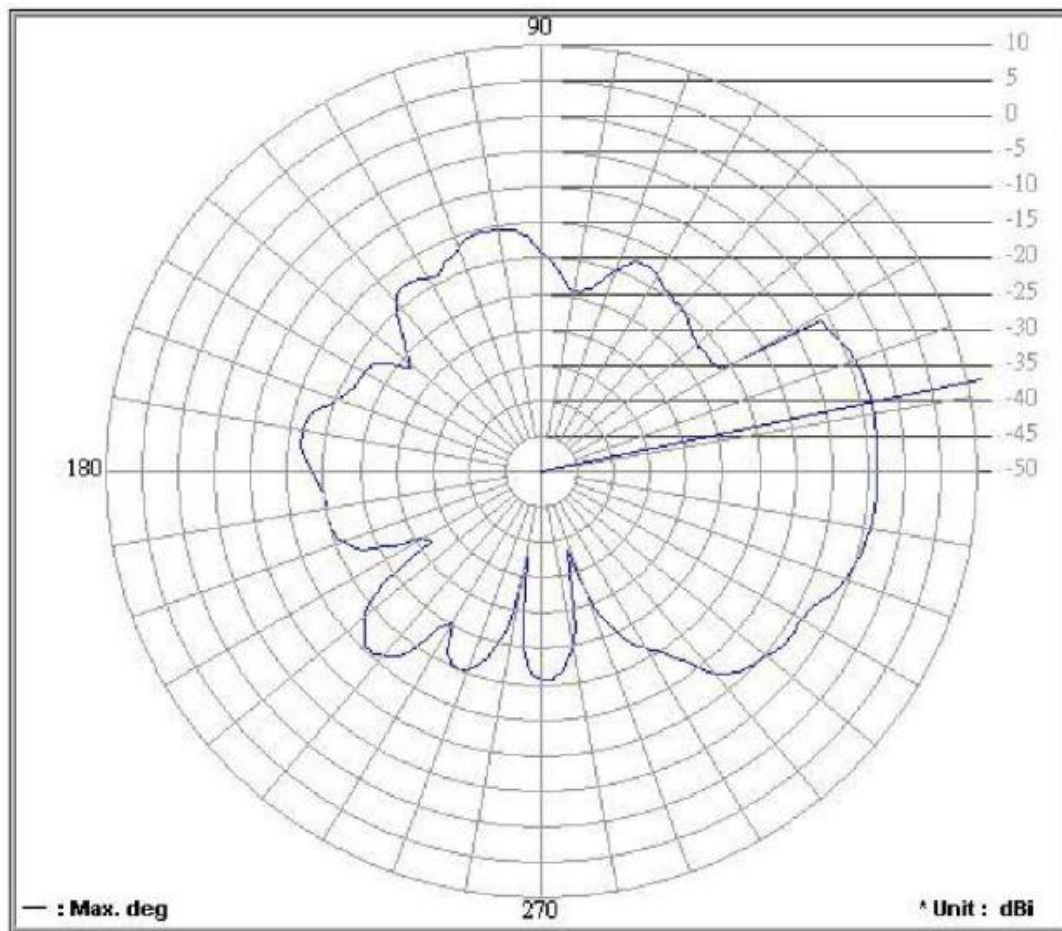
Maximum Gain (degree): **348**

Minimum Gain (dB): **-34.80**

Minimum Gain (degree): **165**

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### 3.2 Vertical



Frequency (MHz) : **2480.00**

Antenna Polarity : **Vertical**

Average Gain (dBi) : **-11.34**

Maximum Gain (dBi) : **-3.47**

Maximum Gain (degree) : **12**

Minimum Gain (dBi) : **-38.33**

Minimum Gain (degree) : **288**

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### 4. Result

| Center Frequency |   | Maximum Ant Gain |
|------------------|---|------------------|
| 2402 MHz         | H | 3.85 dBi         |
|                  | V | -1.54 dBi        |
| 2441 MHz         | H | 3.18 dBi         |
|                  | V | -2.58 dBi        |
| 2480 MHz         | H | 2.80 dBi         |
|                  | V | -3.47 dBi        |