

DJI Antenna Datasheet

RC171 antenna

2023-08-28



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## Revision history

| Version | Change notes | Modifier    | Date       |
|---------|--------------|-------------|------------|
| V1.0    | First draft. | Stephen.Wan | 2023.08.28 |
|         |              |             |            |
|         |              |             |            |
|         |              |             |            |

# DJI Antenna Datasheet

## 1、 Basic Specifications

| No. | Specification       | Descriptions                                                                                                    | Notes             |
|-----|---------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
| 1   | Antenna Name        | Ant 0<br>Ant 1                                                                                                  | Only sale for DJI |
| 2   | Brand               | DJI                                                                                                             |                   |
| 3   | Operation Frequency | 2400~2480MHz;                                                                                                   |                   |
| 4   | Connector Type      | NA                                                                                                              |                   |
| 5   | Impedance           | 50ohm                                                                                                           |                   |
| 6   | Gain                | <a href="#">2.5dBi@2.4~2.483GHz</a> GFSK                                                                        |                   |
| 7   | Efficiency          | $\geq 30\%$ GFSK                                                                                                |                   |
| 8   | VSWR                | $\leq 2$                                                                                                        |                   |
| 9   | Polarization type   | Linear                                                                                                          |                   |
| 10  | 3dB Beamwidth       | Omnidirectional horizon                                                                                         |                   |
| 11  | Weight              | /                                                                                                               |                   |
| 12  | Antenna type        | PCB                                                                                                             |                   |
| 13  | Manufacturer        | Shenzhen ZTX Communication<br>Technology Co., LTD.<br>No. 34, Shilong Avenue, Shiyan Street,<br>Baoan, Shenzhen |                   |

## 2、 Antenna Return Loss/VSWR

### 2.1 GFSK antenna return loss



### 3、 Antenna Gain

校准日期： 2023/08/28

测试方法： 近场转台测试

测试暗室型号： Satimo SG24

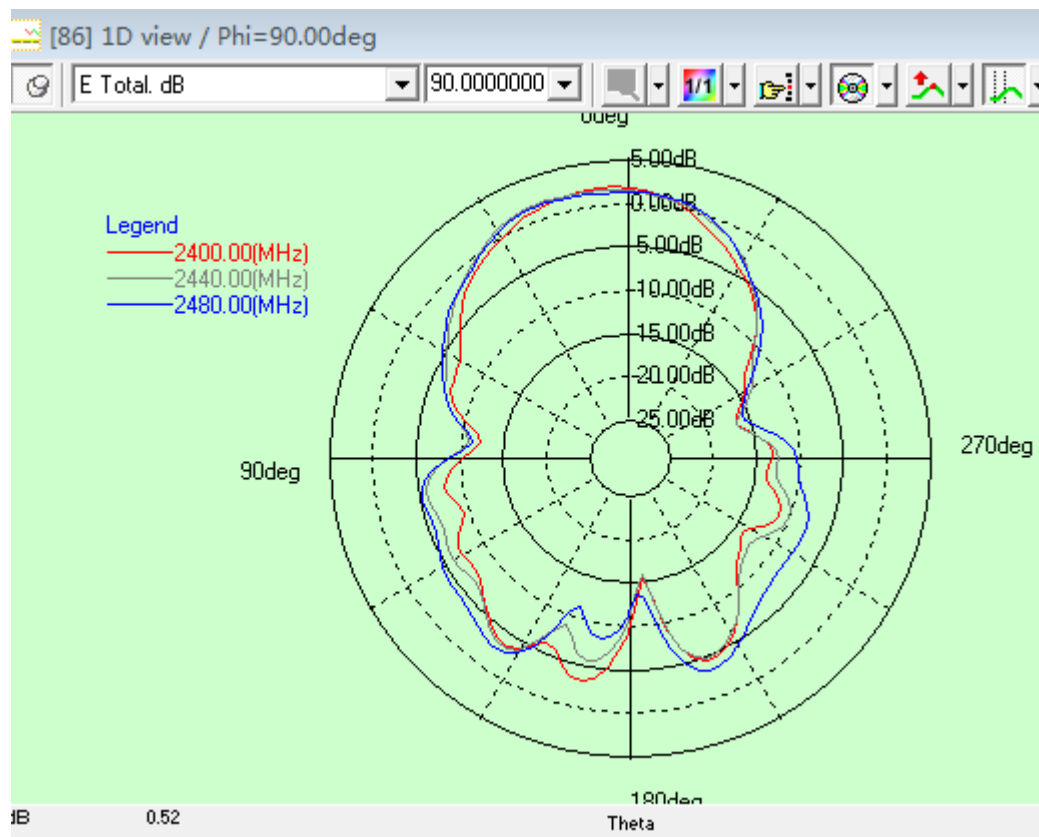
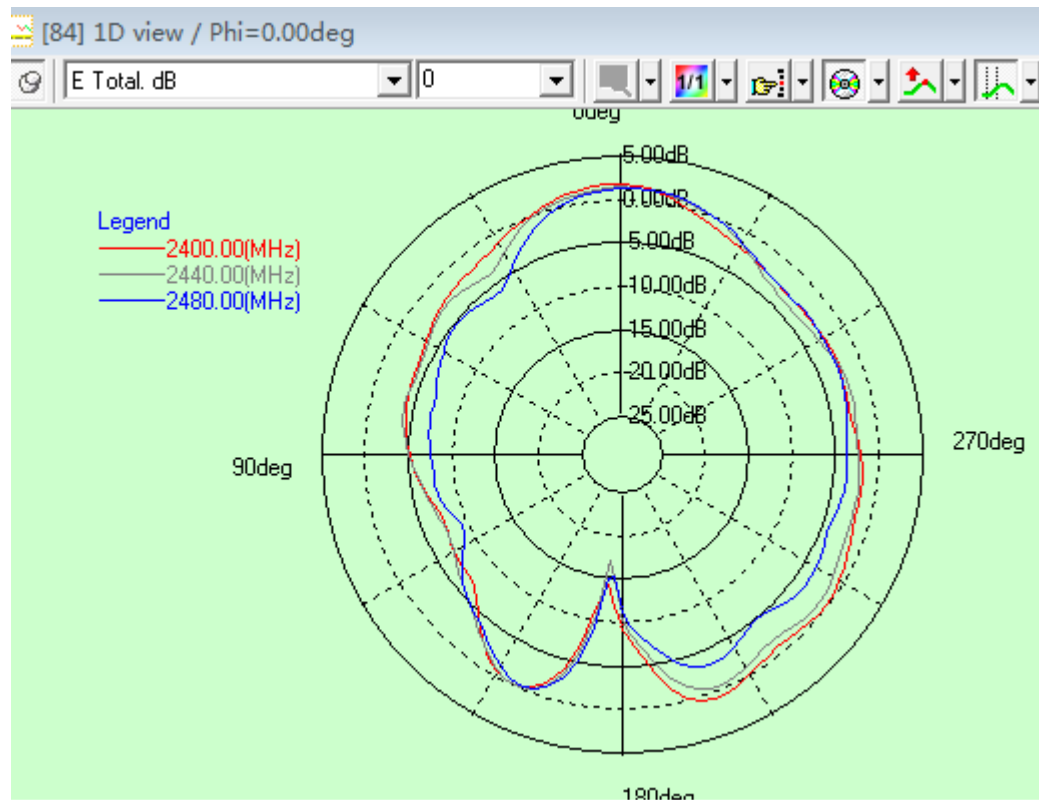
#### 3.1 GFSK

| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 2400MHz   | 48%        | 2.42143   |
| 2410MHz   | 49%        | 2.50112   |
| 2420MHz   | 44%        | 2.36028   |
| 2450MHz   | 49%        | 2.20777   |
| 2470MHz   | 42%        | 2.1167    |
| 2483MHz   | 43%        | 2.2167    |

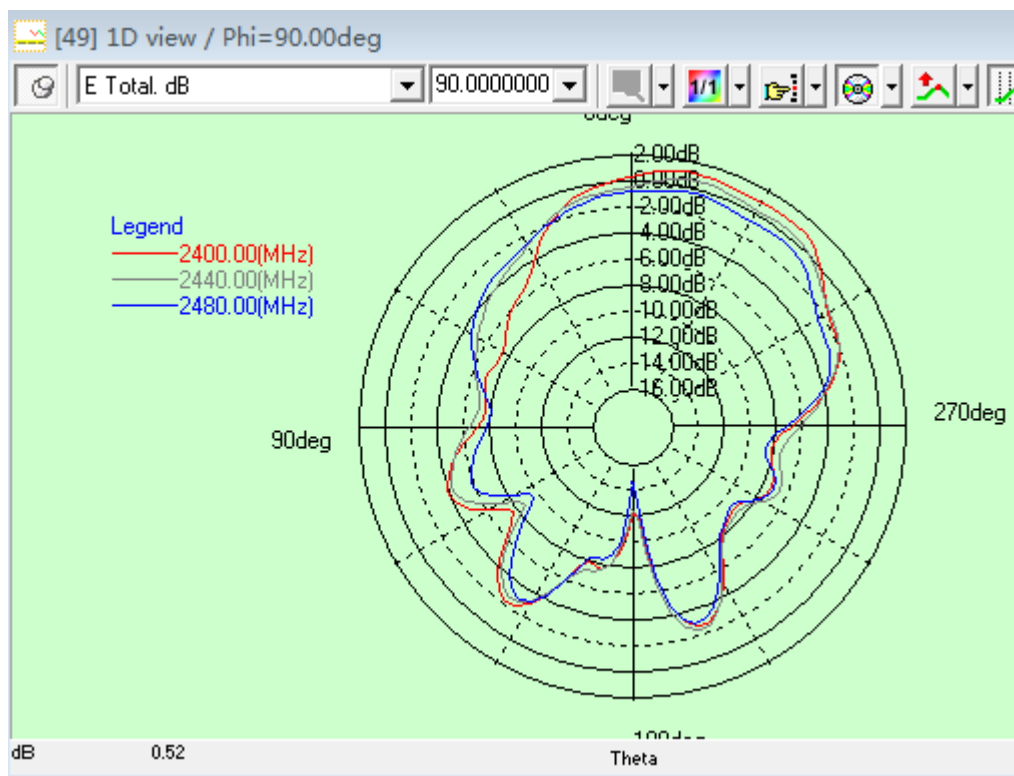
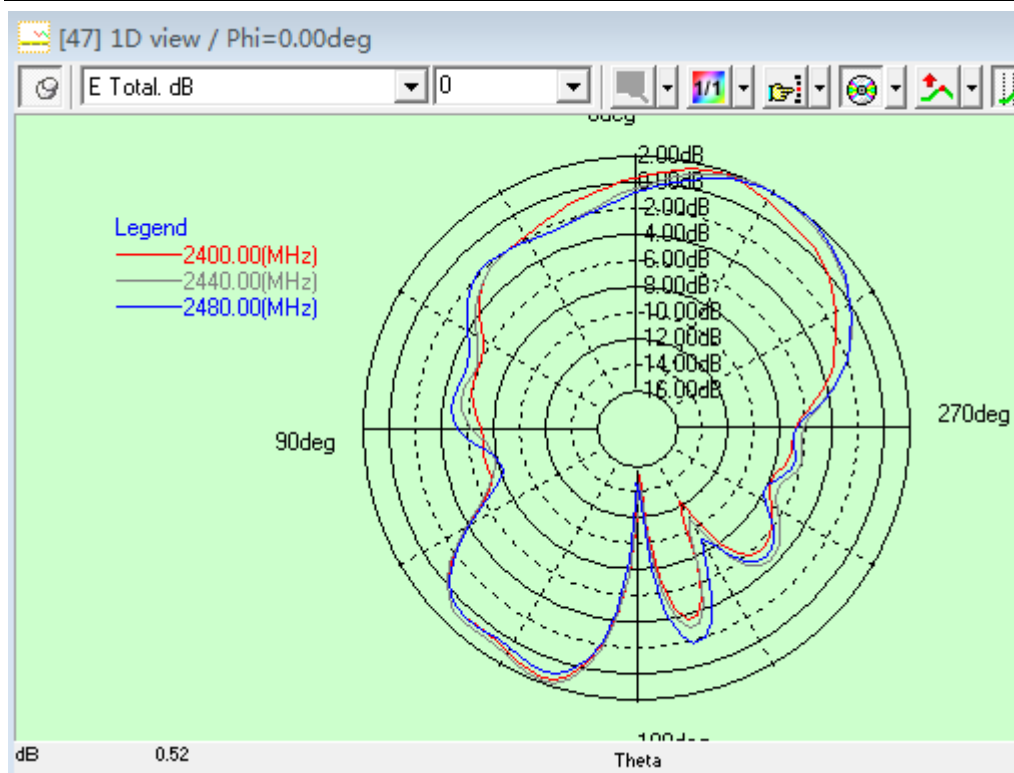
### 4、 Radiation Pattern

#### 4.1 GFSK antenna 2.4G radiation pattern

Ant0



Ant1



## 5、 Structure drawing

### 5.1 GFSK antenna