

DJI Antenna Datasheet

DY302 BT antenna

2025-2-10

## Revision history

| Version | Change notes | Modifier | Date       |
|---------|--------------|----------|------------|
| V1.0    | First draft. | Dave.li  | 2025.02.10 |
|         |              |          |            |
|         |              |          |            |
|         |              |          |            |

# DJI Antenna Datasheet

## 1、 Basic Specifications

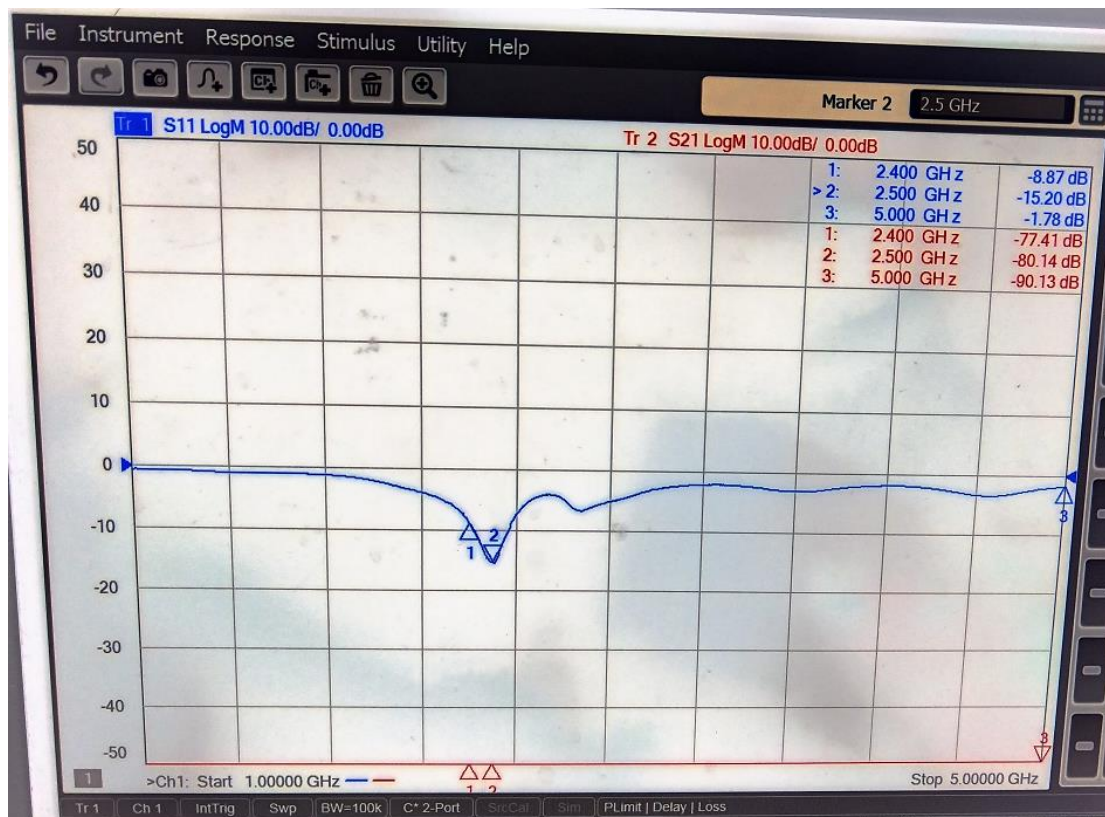
| No. | Specification          | Descriptions        | Notes |  |
|-----|------------------------|---------------------|-------|--|
| 1   | Antenna Name           | DY302 BT Ant        |       |  |
| 2   | Brand                  | DJI                 |       |  |
| 3   | Operation<br>Frequency | 2.4~2.483GHz;       |       |  |
| 4   | Connector Type         | NA                  |       |  |
| 5   | Impedance              | 50ohm               |       |  |
| 6   | Gain                   | 1dBi@2.4~2.483GHz   |       |  |
| 7   | Efficiency             | $\geq 30\%$         |       |  |
| 8   | VSWR                   | $\leq 3$            |       |  |
| 9   | Polarization type      | Linear              |       |  |
| 10  | 3dB Beam width         | $\geq 60\text{deg}$ |       |  |
| 11  | Weight                 | 1g                  |       |  |
| 12  | Antenna type           | IFA                 |       |  |
| 13  | Manufacture            | DJI innovation      |       |  |

Antenna efficiency and gain:

| Frequency | Efficiency | Gain . dB |
|-----------|------------|-----------|
| 2400MHz   | 40%        | 0.21      |

|         |     |      |
|---------|-----|------|
| 2410MHz | 40% | 0.38 |
| 2420MHz | 39% | 0.33 |
| 2430MHz | 39% | 0.26 |
| 2440MHz | 41% | 0.64 |
| 2450MHz | 40% | 0.82 |
| 2460MHz | 43% | 1.00 |
| 2470MHz | 40% | 0.27 |
| 2480MHz | 42% | 0.49 |

## 2、 Antenna Return Loss/VSWR



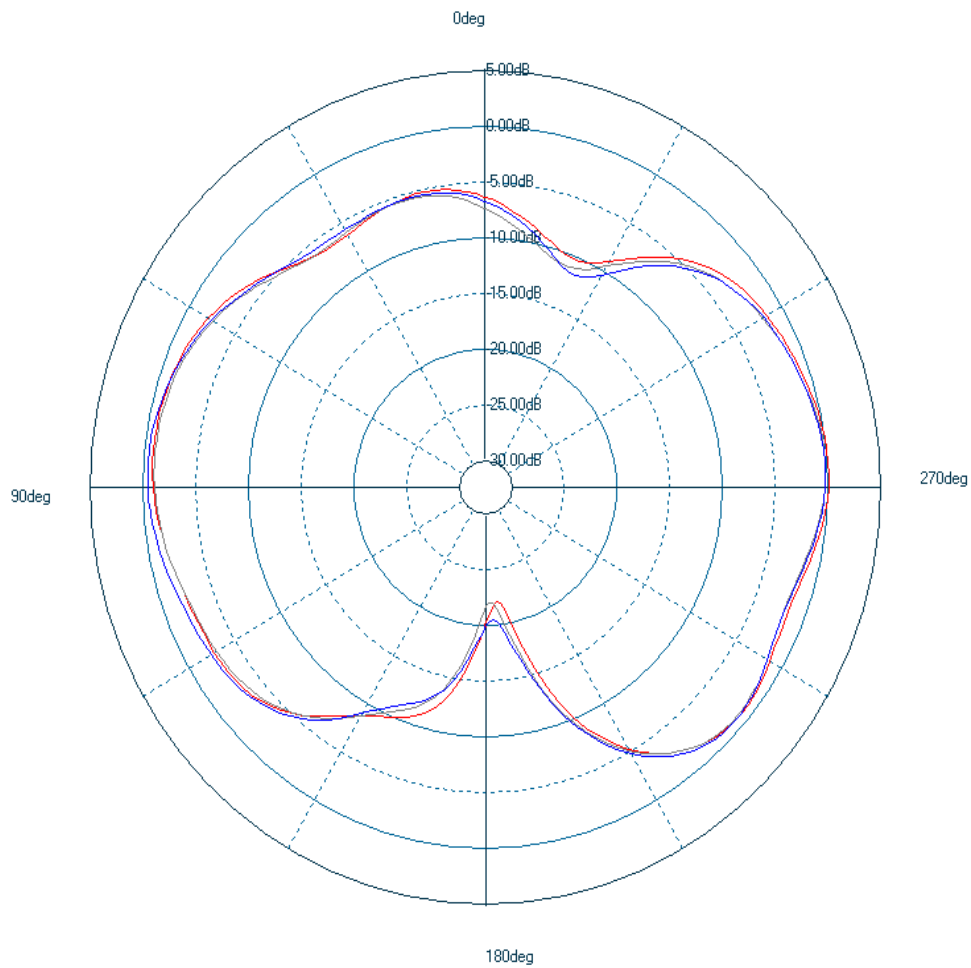
## 3、 Radiation Pattern

Test lab: Satimo SG24

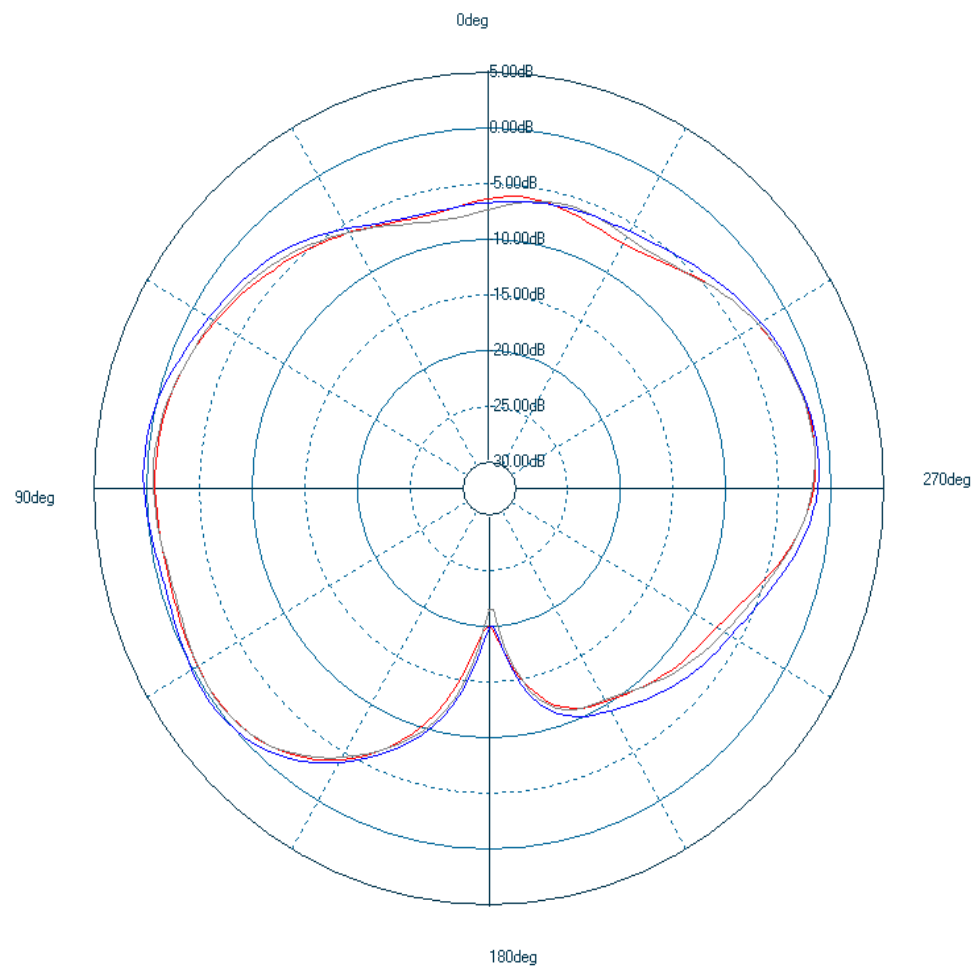
Test date: 2025/1/17

### 3.1 Antenna radiation pattern

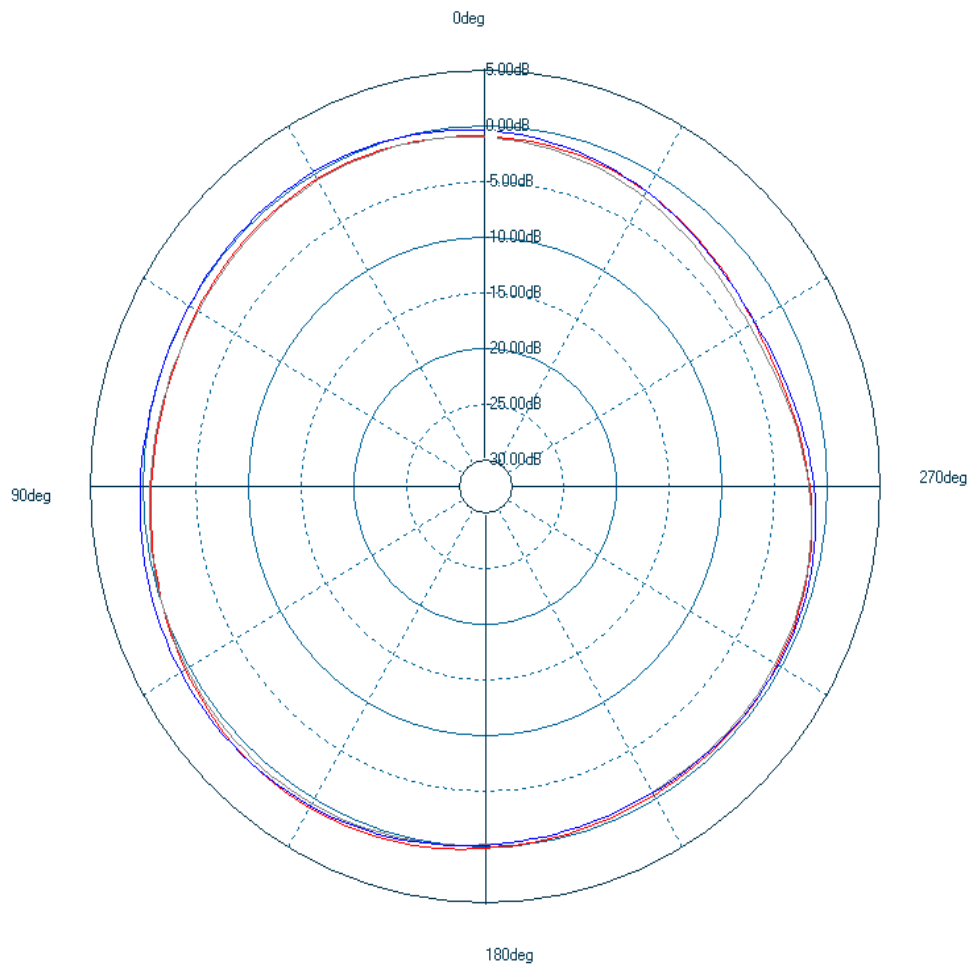
Phi=0



Phi=90



Theta=90



#### 4 Structure drawing

