

DJI Antenna Datasheet

RC331 antenna

2022-02-22



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Zhe.Peng	2023.02.22

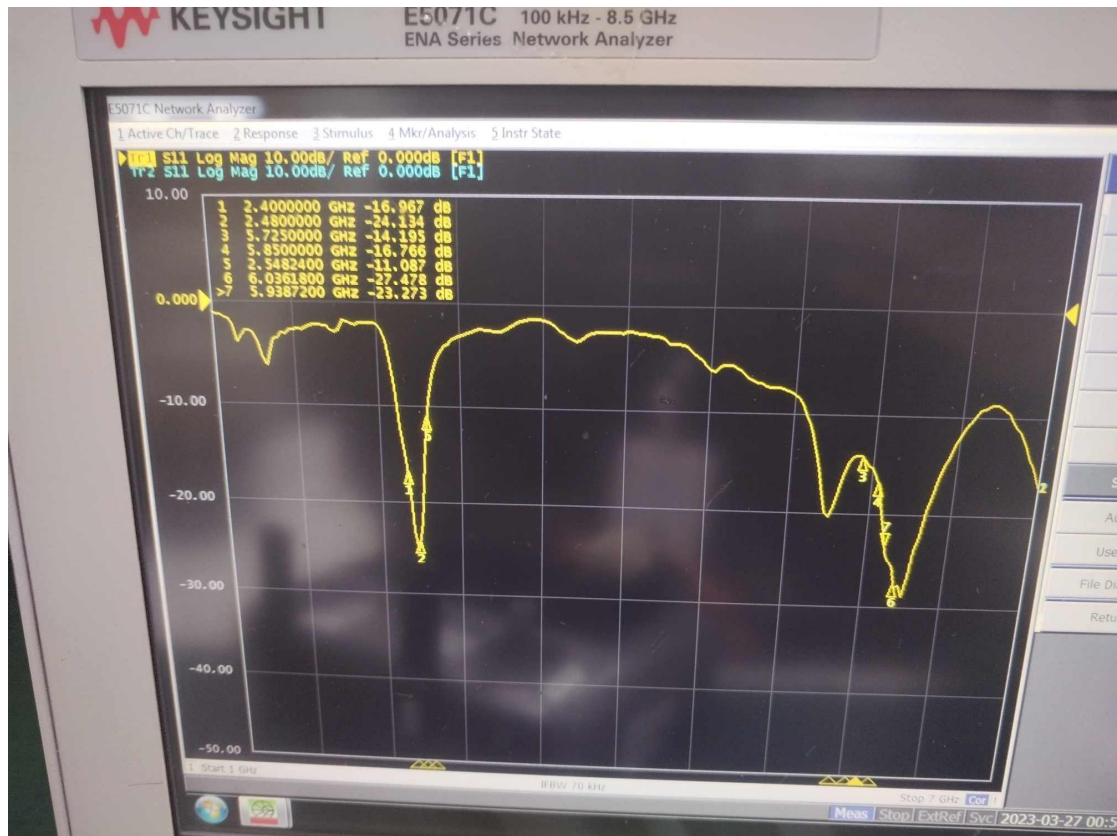


DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>RC331 SDR Ant</u>		
2	Brand	<u>DJI</u>		
3	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.15~5.25GHz</u> <u>5.725~5.85GHz</u>		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	<u>1dBi@2.4~2.483GHz</u> sdr <u>2dbi@5.15~5.25GHz</u> sdr <u>2dBi@5.725~5.875GHz</u> sdr		
7	Efficiency	$\geq 50\%$ SDR		
8	VSWR	≤ 2.5		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	PCB		
13	Manufacturer	Shenzhen ZTX Communication Technology Co., LTD.		
14	Manufacturer address	No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province.		

2、 Antenna Return Loss/VSWR





3、 Antenna Gain

3.1 sdr 2.4G:

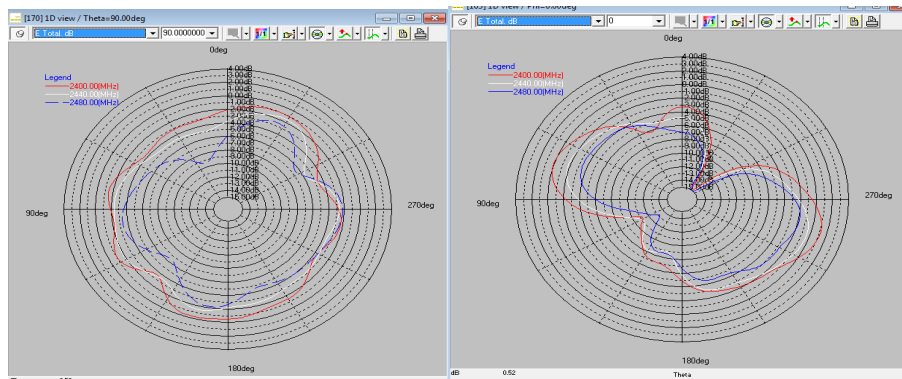
Frequency	Efficiency	Gain(dBi)
2400MHz	51%	1.0
2410MHz	49%	0.7
2420MHz	47%	0.9
2450MHz	47%	0.8
2470MHz	46%	0.5
2483MHz	45%	0.8

3.1 sdr 5G:

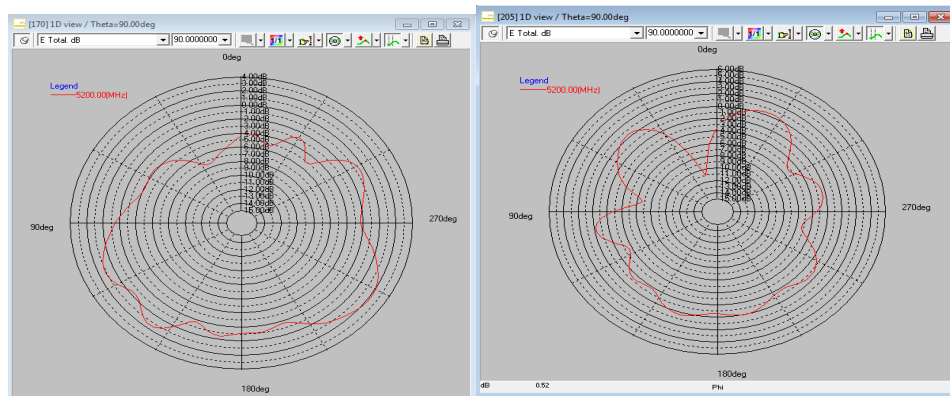
Frequency	Efficiency	Gain(dBi)
5150MHz	54%	1.8
5200MHz	58%	2.0
5725MHz	50%	1.8
5775MHz	54%	1.7
5800MHz	53%	1.9
5825MHz	53%	2.0
5850MHz	54%	1.8

4、 Radiation Pattern

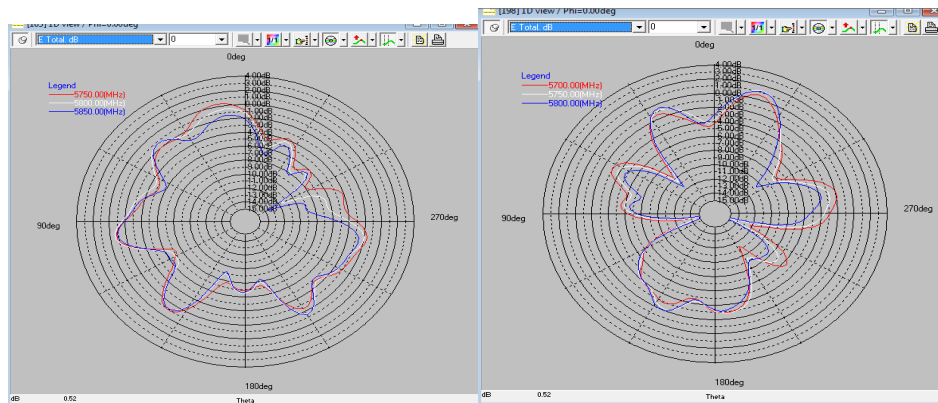
4.1.1 sdr antenna 2.4G radiation pattern



4.1.2 sdr antenna 5.2G radiation pattern



4.1.3 sdr antenna 5.8G radiation pattern



5、 Structure drawing

