

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>1.5dBi@2.4~2.483GHz</u> sdr <u>3dBi@5.2Ghz</u> sdr <u>3dBi@5.725~5.875GHz</u> sdr		
7	Efficiency	$\geq 50\%$ SDR		
8	VSWR	≤ 2		
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	No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province.		

2、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss





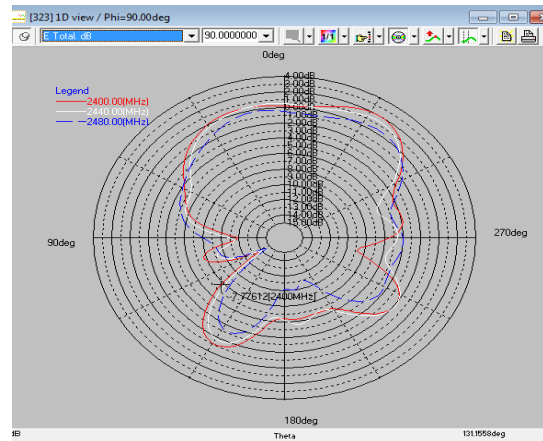
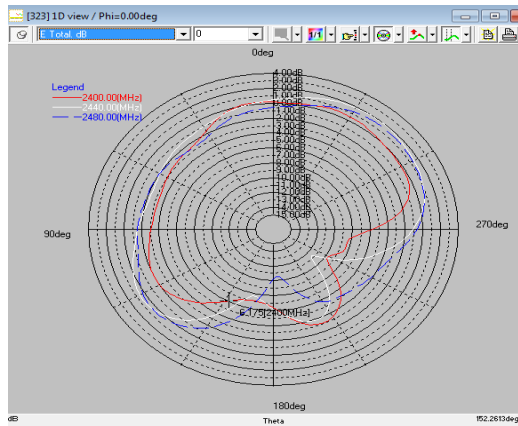
3、 Antenna Gain

Frequency	Efficiency	Gain(dBi)
2400MHz	51%	1.4
2410MHz	52%	1.2
2420MHz	53%	1.5
2450MHz	57%	1.4
2470MHz	58%	1.5
2483MHz	57%	1.4

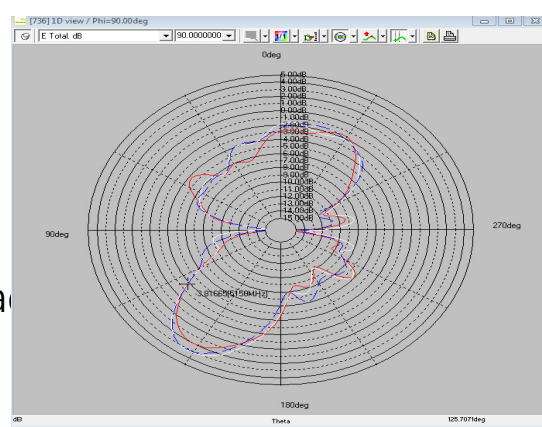
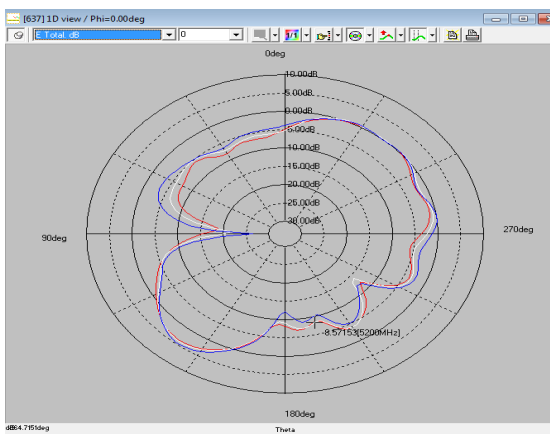
Frequency	Efficiency	Gain(dBi)
5150MHz	45%	2.8
5200MHz	49%	3.0
5725MHz	58%	2.8
5775MHz	54%	2.6
5800MHz	54%	2.8
5825MHz	54%	2.9
5850MHz	56%	3.0

4、 Radiation Pattern

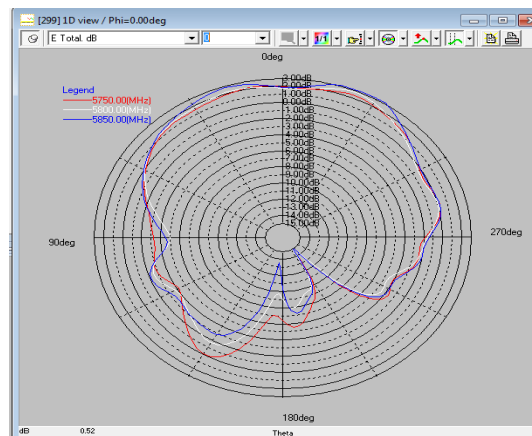
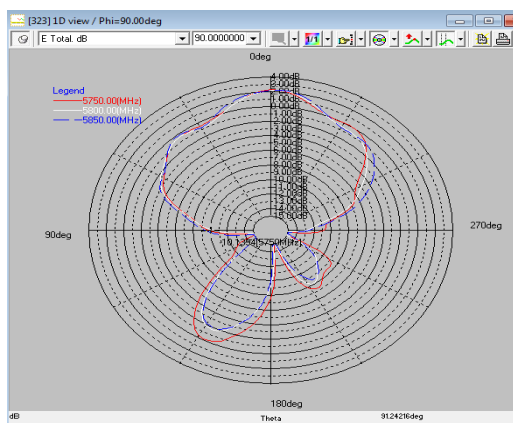
4.1 sdr antenna 2.4G radiation pattern



4.2 sdr antenna 0 5.2G radiation pattern



4.3 sdr antenna 5.8G radiation pattern



5、 Structure drawing

