

DJI Antenna Datasheet

DT501 antenna

2025-10-22



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Zhe.Peng	2025.10.27

DJI Antenna Datasheet Ant0/2

1.1 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>DT501 SDR Ant0/2</u>		
2	Brand	<u>DJI</u>		
3	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz</u> <u>5.25-5.349GHz</u> <u>5.47-5.724GHz</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>1.5dbi@5.2GHz</u> sdr <u>2.5dbi@5.25-5.349GHz</u> sdr <u>2dbi@5.47-5.724GHz</u> sdr <u>1.5dBi@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	Dipole		
13	Manufacturer	Shenzhen South Star Technology Co.,Ltd		

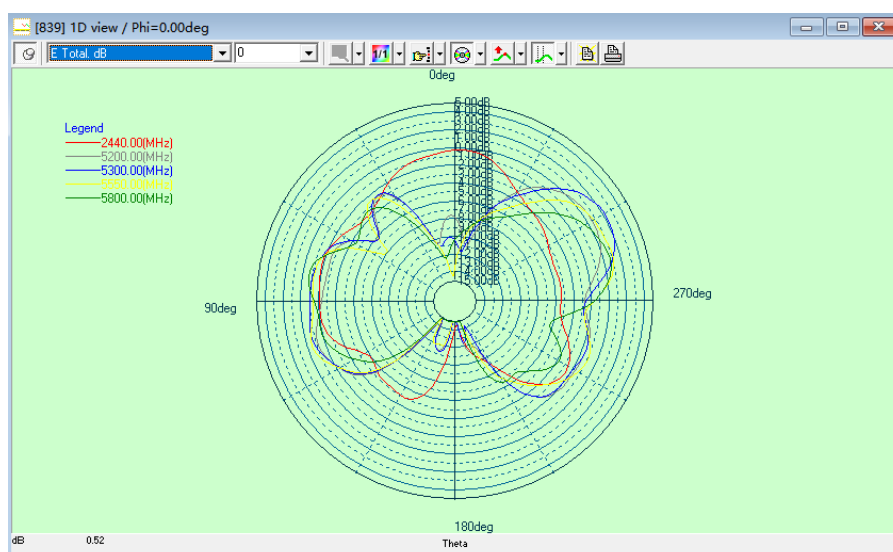
1.2 Antenna Efficiency and Gain

Frequency	Efficiency	Gain(dBi)
2400MHz	56%	0.4
2410MHz	56%	0.3
2420MHz	55%	0.8
2450MHz	61%	1.5
2470MHz	63%	1.2
2483MHz	58%	1.2

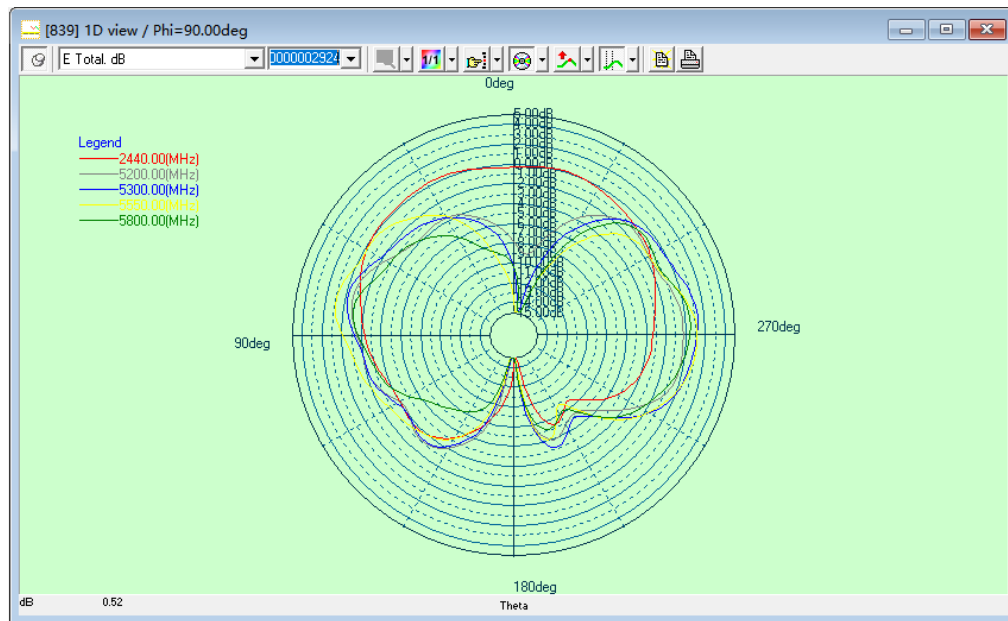
Frequency	Efficiency	Gain(dBi)
5150MHz	42%	1.1
5200MHz	43%	1.5
5300MHz	46%	2.5
5500MHz	47%	1.8
5600MHz	46%	2.0
5725MHz	50%	1.5
5775MHz	50%	1.4
5800MHz	48%	1.5
5825MHz	48%	1.0
5850MHz	50%	1.0

1.3 Radiation Pattern

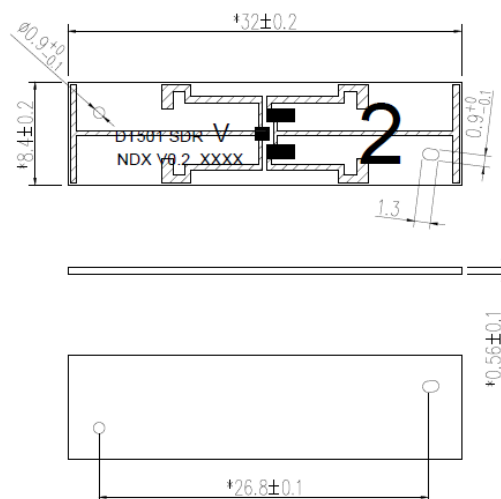
Elevation Plane:



Azimuth Plane:



1.4 Structure drawing





DJI Antenna Datasheet Ant1/3

2.1 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>DT501 SDR Ant1</u>		
2	Brand	<u>DJI</u>		
3	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz</u> <u>5.25-5.349GHz</u> <u>5.47-5.724GHz</u> <u>5.725~5.85GHz</u>		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	<u>2.5dBi@2.4~2.483GHz</u> sdr <u>2.5dbi@5.2GHz</u> sdr <u>2.5dbi@5.25-5.349GHz</u> sdr <u>2.5dbi@5.47-5.724GHz</u> sdr <u>2.5dBi@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	Dipole		



13	Manufacturer	Shenzhen South Star Technology Co.,Ltd		
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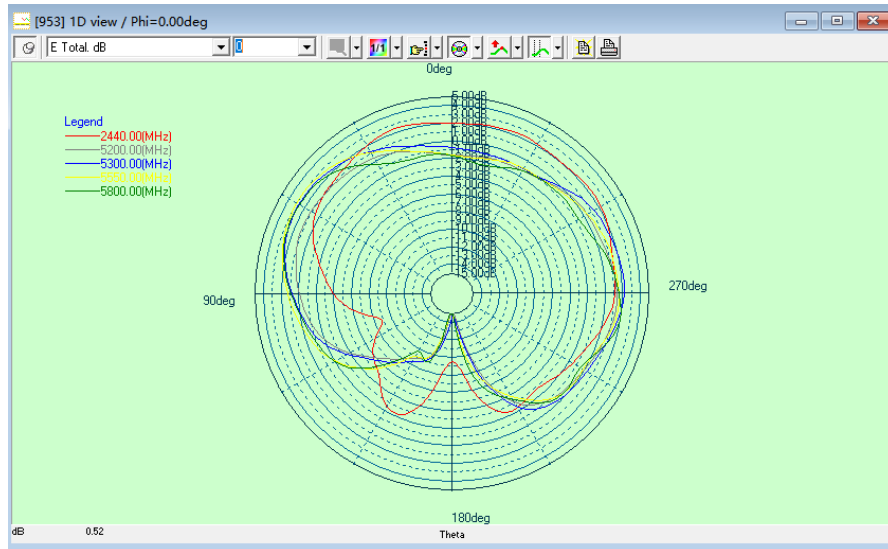
2.2 Antenna Efficiency and Gain

Frequency	Efficiency	Gain(dBi)
2400MHz	59%	2.2
2410MHz	59%	2.2
2420MHz	60%	2.4
2450MHz	63%	2.4
2470MHz	63%	2.1
2483MHz	58%	2.5

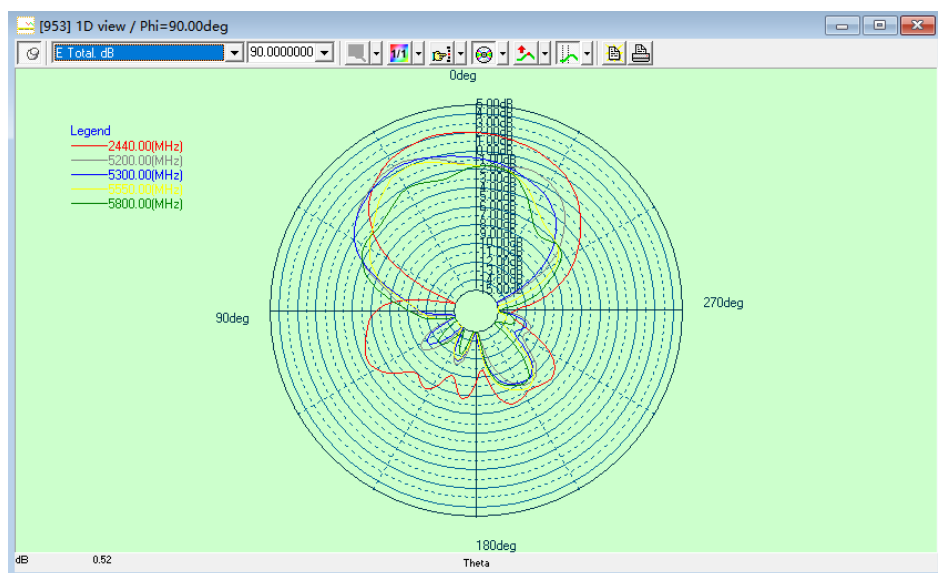
Frequency	Efficiency	Gain(dBi)
5150MHz	61%	2.0
5200MHz	58%	2.5
5300MHz	56%	2.5
5500MHz	51%	2.5
5600MHz	46%	2.5
5725MHz	48%	2.2
5775MHz	48%	2.5
5800MHz	49%	2.5
5825MHz	50%	2.3
5850MHz	51%	2.4

2.3 Radiation Pattern

Elevation Plane:



Azimuth Plane:



2.4 Structure drawing

