

DJI Antenna Datasheet

WM163 antenna

2022-07-29



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Freeman.D eng	2022.07.29

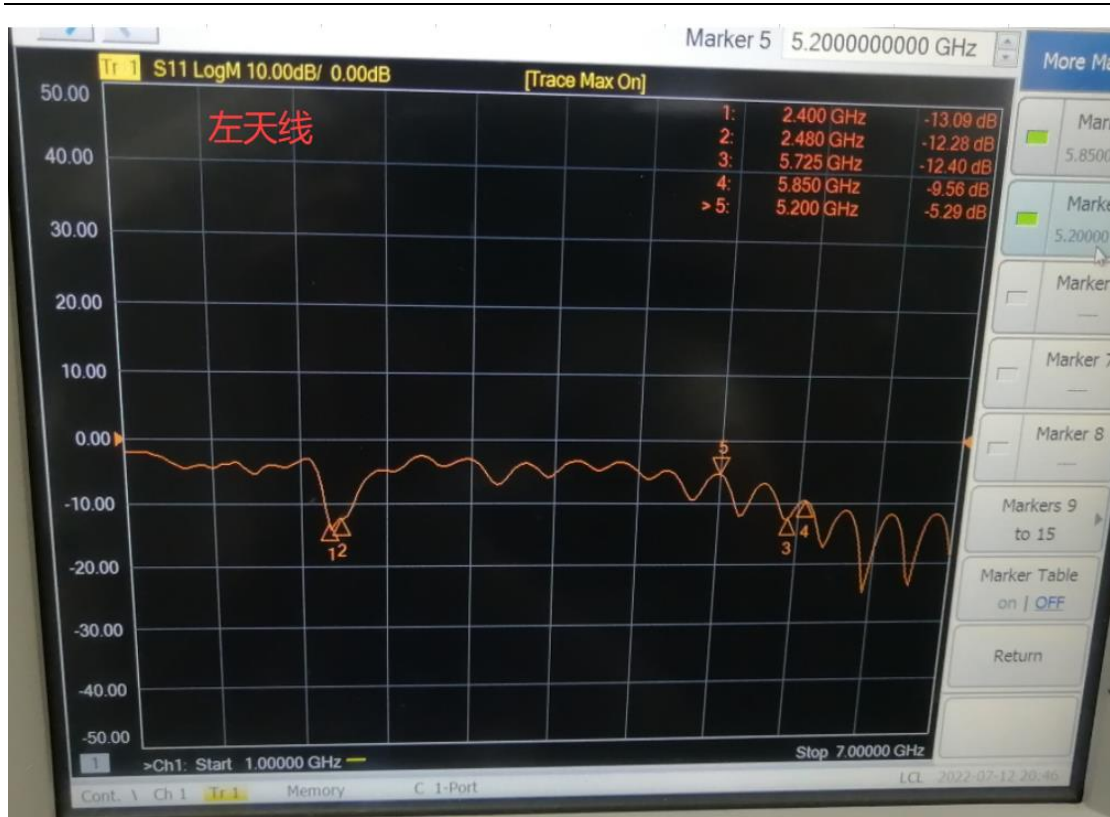
DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name	WM163 Ant	
2	Brand	DJI	
3	Operation Frequency	2.4~2.483GHz; 5.725~5.85GHz	
4	Connector Type	Ipex-4	
5	Impedance	50ohm	
6	Gain	1.5dBi@2.4GHz 1dBi@5.8GHz	
7	Efficiency	$\geq 45\%$	
8	VSWR	≤ 2	
9	Polarization type	Linear	
10	3dB Beamwidth	Omnidirectional horizon	
11	Weight		
12	Antenna type	Dipole	

2、 Antenna Return Loss/VSWR

2.1 Ant return loss



3、 Antenna Gain

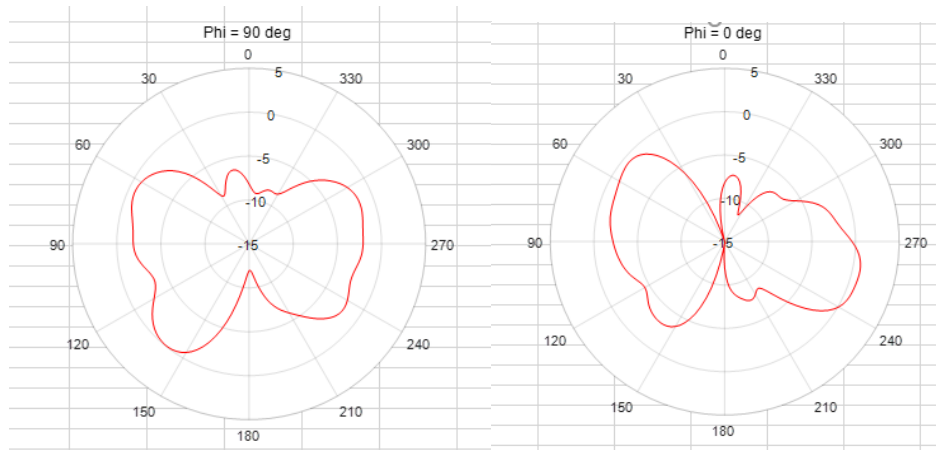
3.1 Wifi antenna

Frequency	Efficiency	Gain(dBi)
2400MHz	48%	1.50
2420MHz	53%	1.46
2440MHz	52%	1.45
2460MHz	47%	1.49
2480MHz	44%	1.45

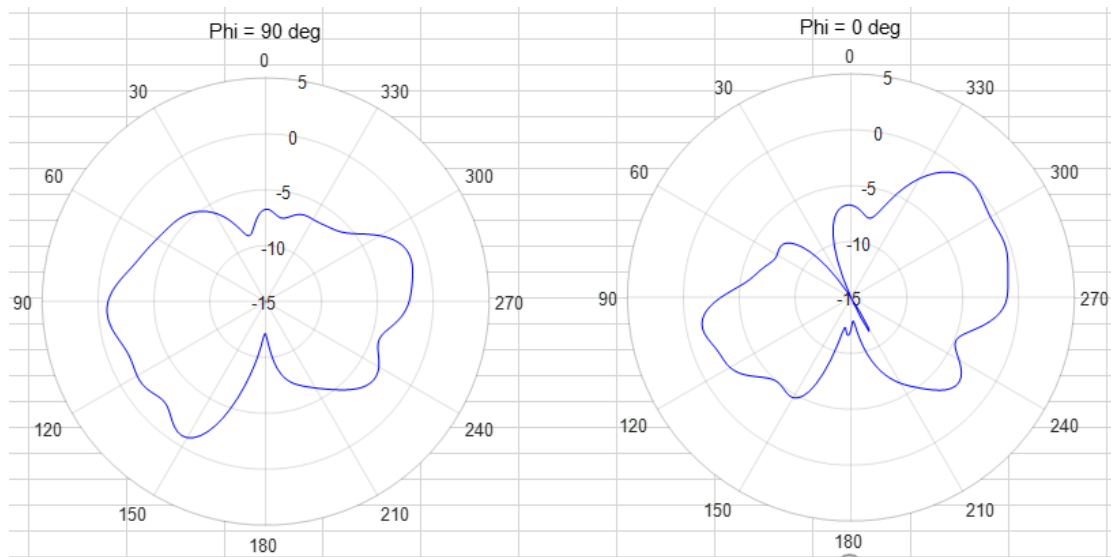
Frequency	Efficiency	Gain(dBi)
5725MHz	47%	1.02
5750MHz	47%	0.83
5775MHz	49%	0.70
5800MHz	52%	0.88
5825MHz	57%	1.0
5850MHz	56%	0.97

4、 Radiation Pattern

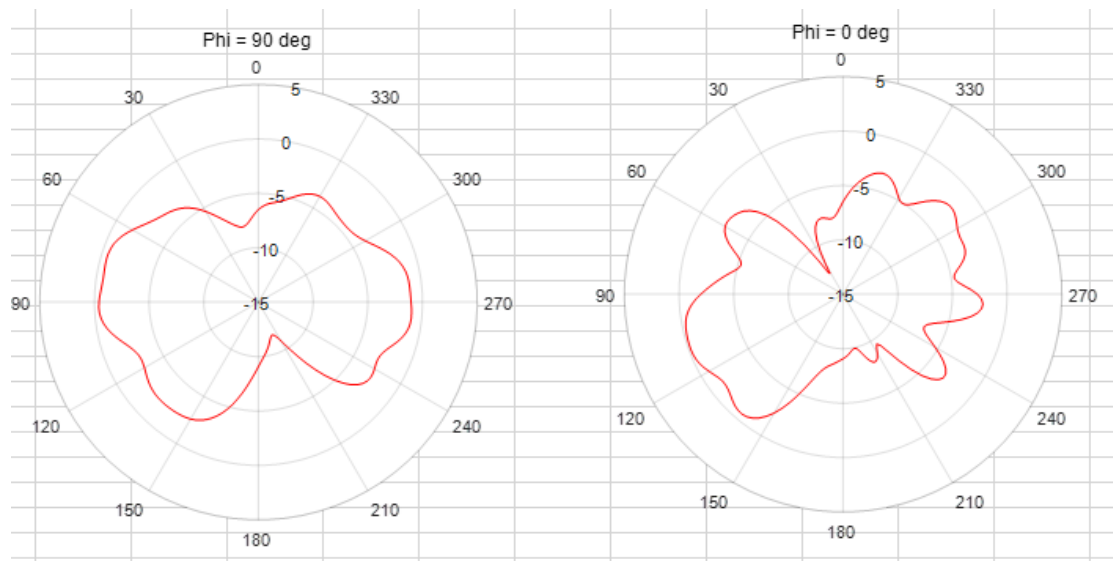
4.1 Ant0 2.4G radiation pattern



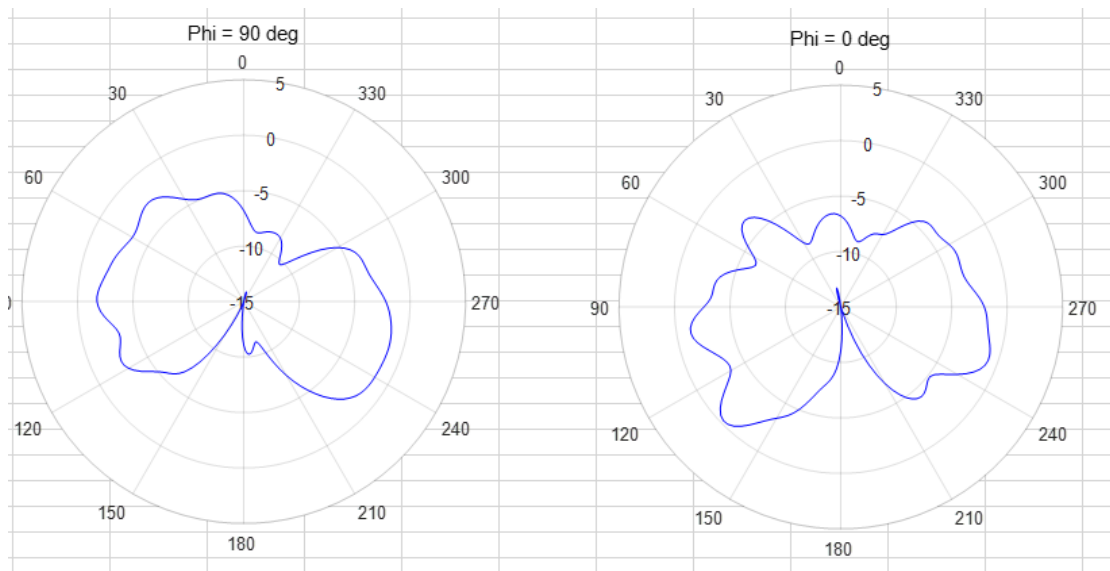
4.2 Ant1 2.4G radiation pattern



4.3 Ant0 5.8G radiation pattern



4.4 Ant1 5.8G radiation pattern



5、 Structure drawing

