

DJI Antenna Datasheet

RC010 antenna

2024-05-21



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Stephen.Wan	2024.05.21

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RC010 Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz 5.725~5.85GHz		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	ANT0: 2 dBi,ANT1: 1.5 dBi @2.4~2.483GHz ANT0: 2.2dBi, ANT1: 2.0 dBi @5.15~5.25GHz ANT0: 2dBi, ANT1: 2.0 @5.725~5.875GHz		
7	Efficiency	$\geq 50\%$ SDR		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	FPC		

2、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss



3、 Antenna Gain

3.1 sdr

mode	Frequency	ANT0		ANT1	
		Gain (dBi)	Efficiency (%)	Gain (dBi)	Efficiency (%)
2.4G	2400MHz	1.73	56.6%	1.18	46.8%
	2440MHz	2.00	59.4%	1.50	53.1%
	2480MHz	1.78	54.3%	1.48	50.5%
5.8G	5725MHz	1.8	33.3%	1.75	56.5%
	5800MHz	1.21	35.1%	2.00	53.3%
	5850MHz	2.00	38.4%	1.5	47.5%

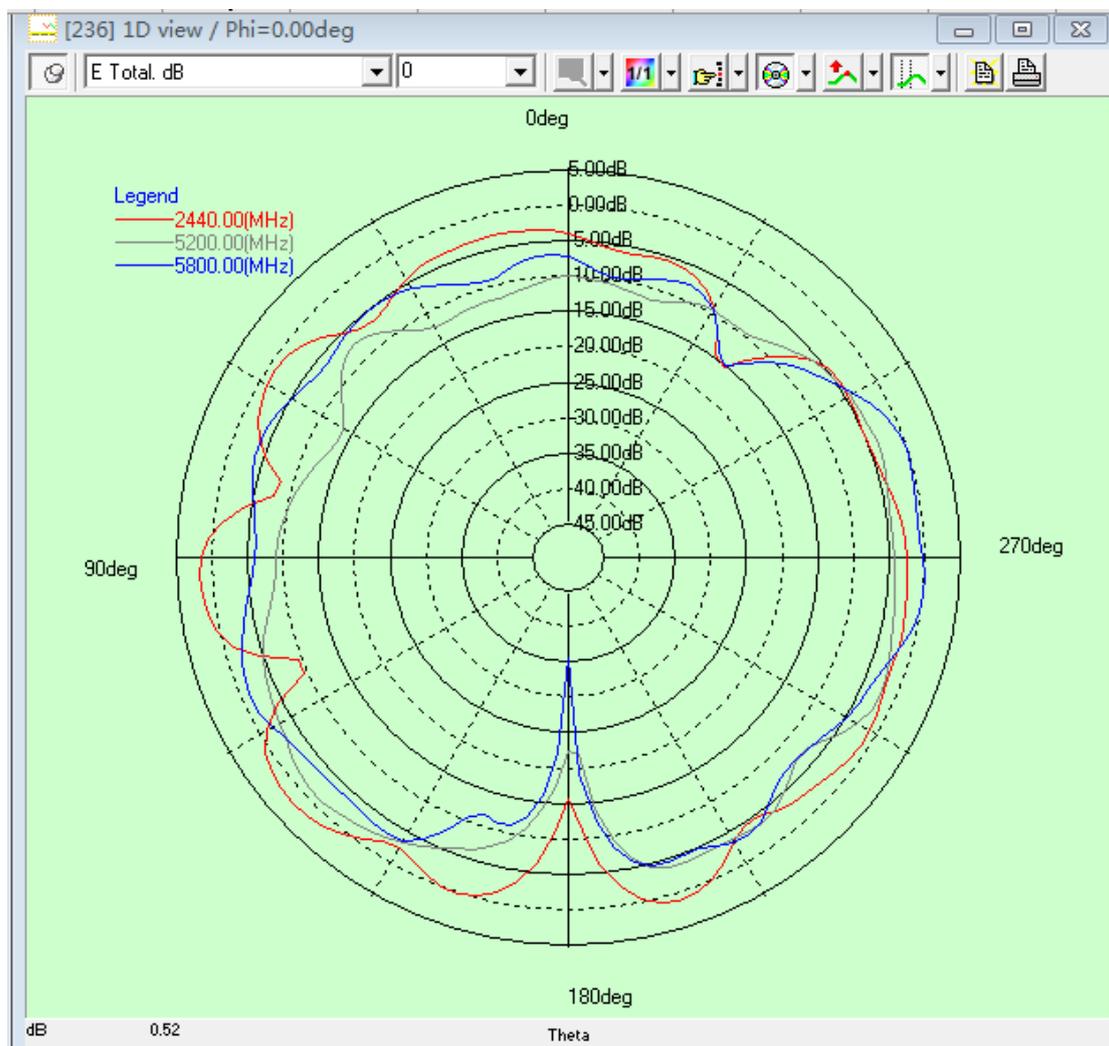


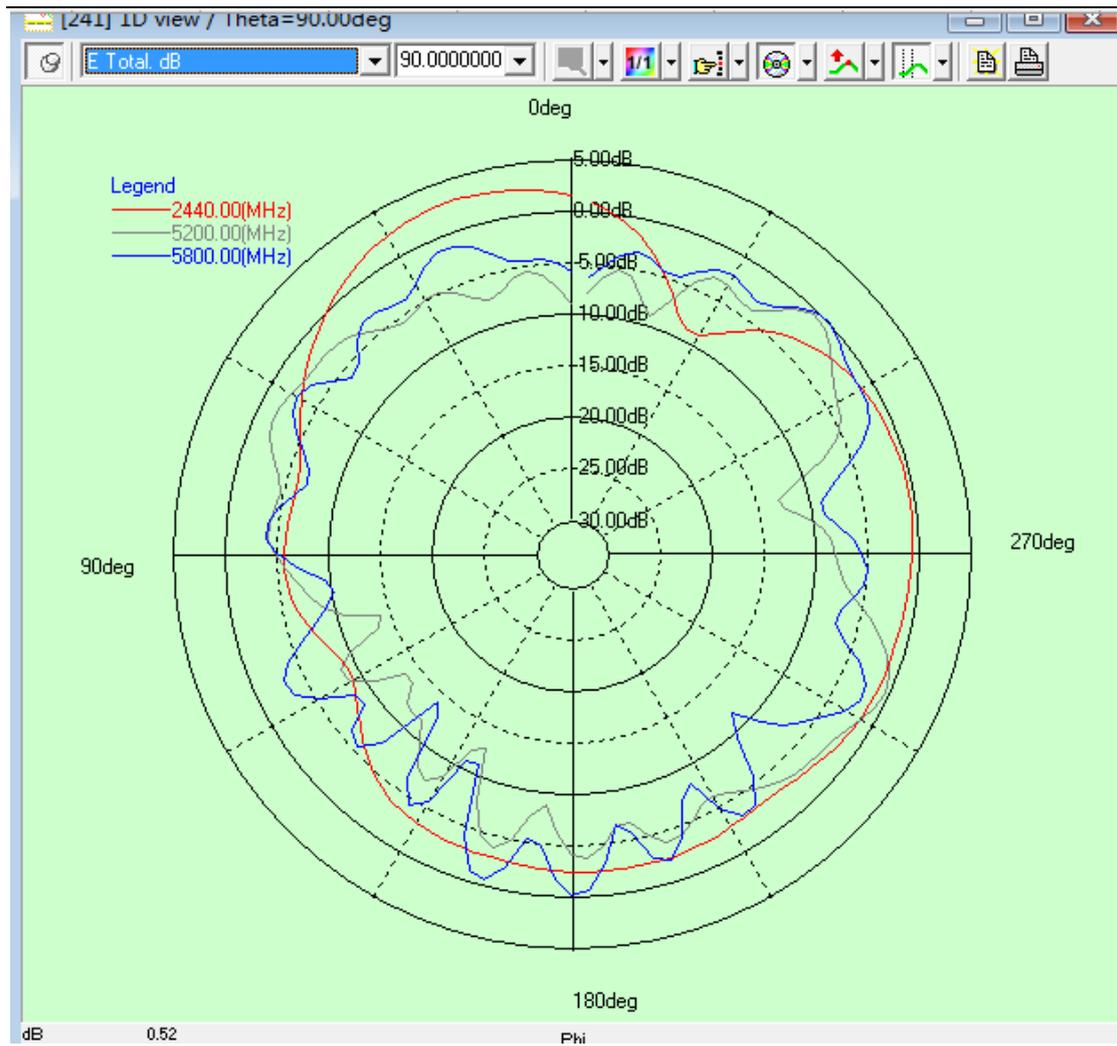
5.2G	5150 MHz	2.20	45.7%	1.38	53.4%
	5200 MHz	2.07	43.6%	1.00	50%
	5250 MHz	2.12	46.8%	2.00	59.4%

4、 Radiation Pattern

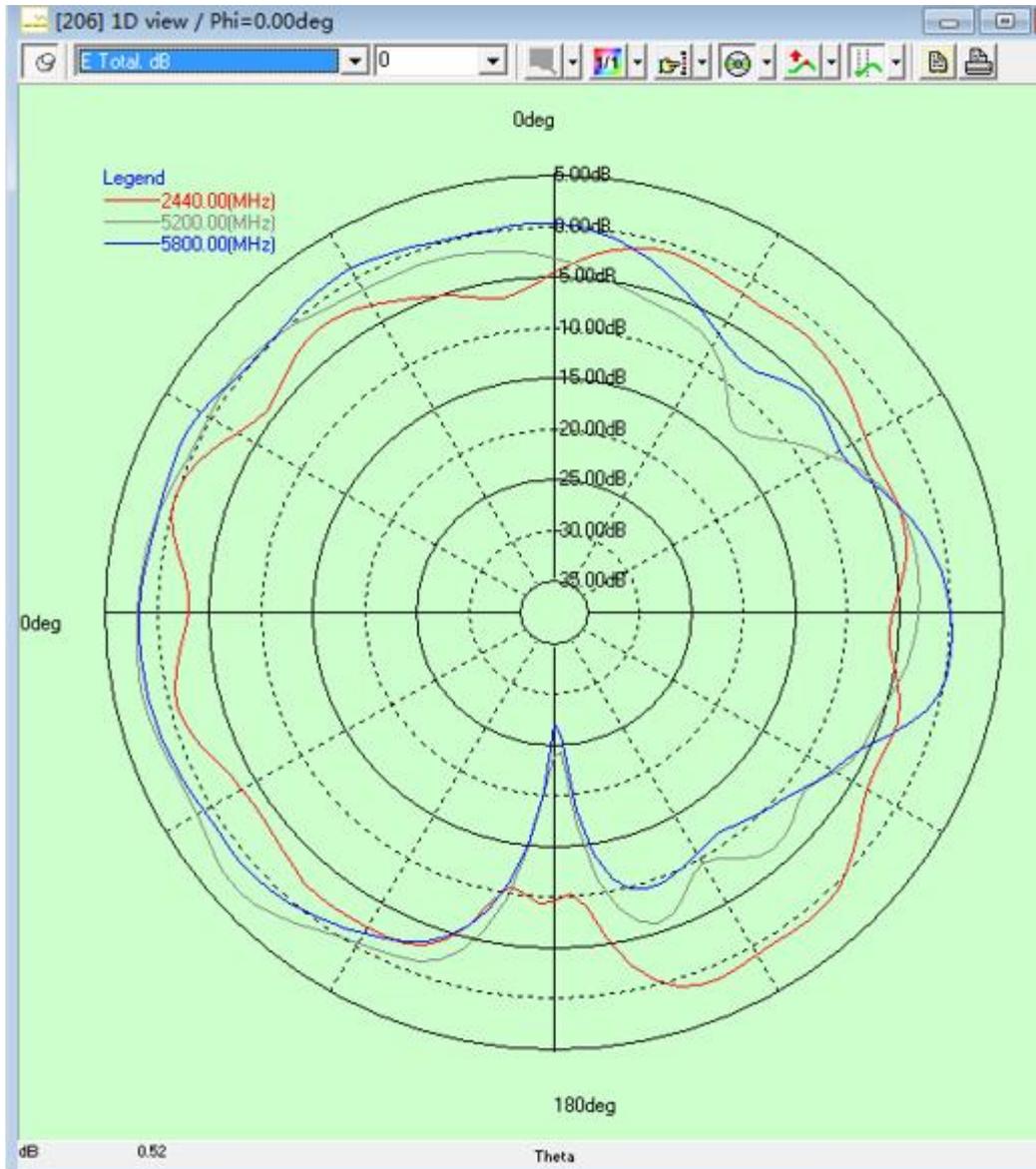
4.1 sdr antenna 2.4G radiation pattern

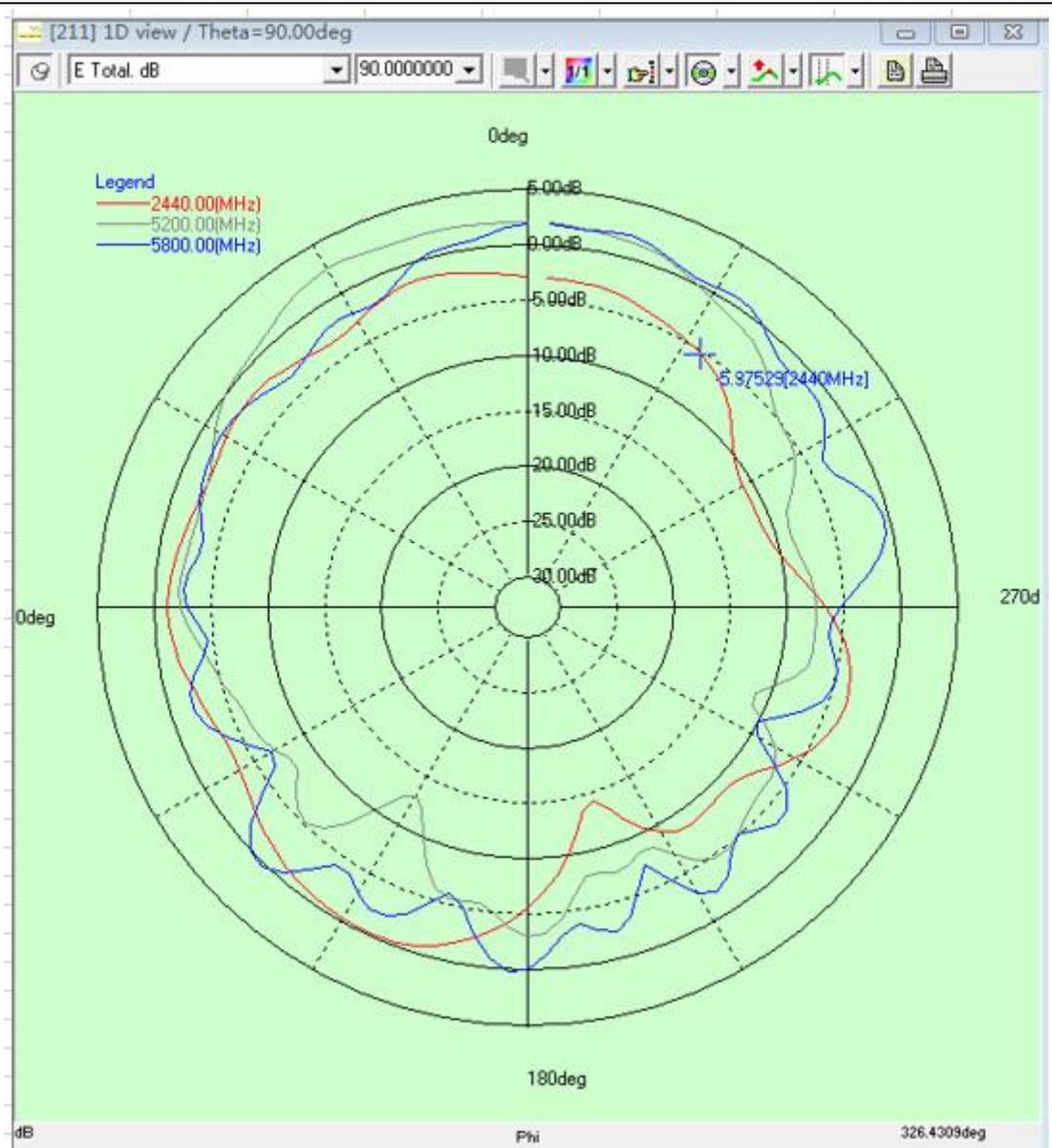
Ant0





Ant1

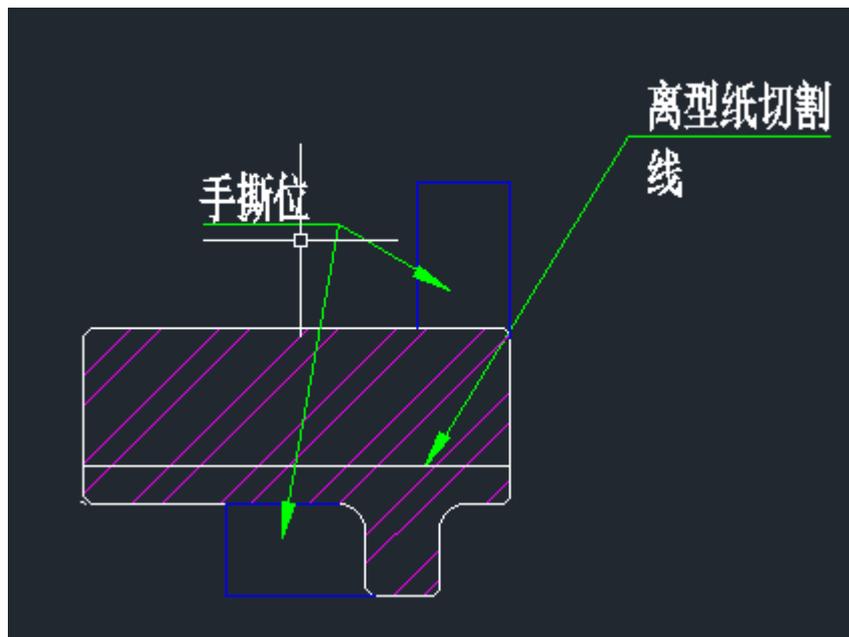




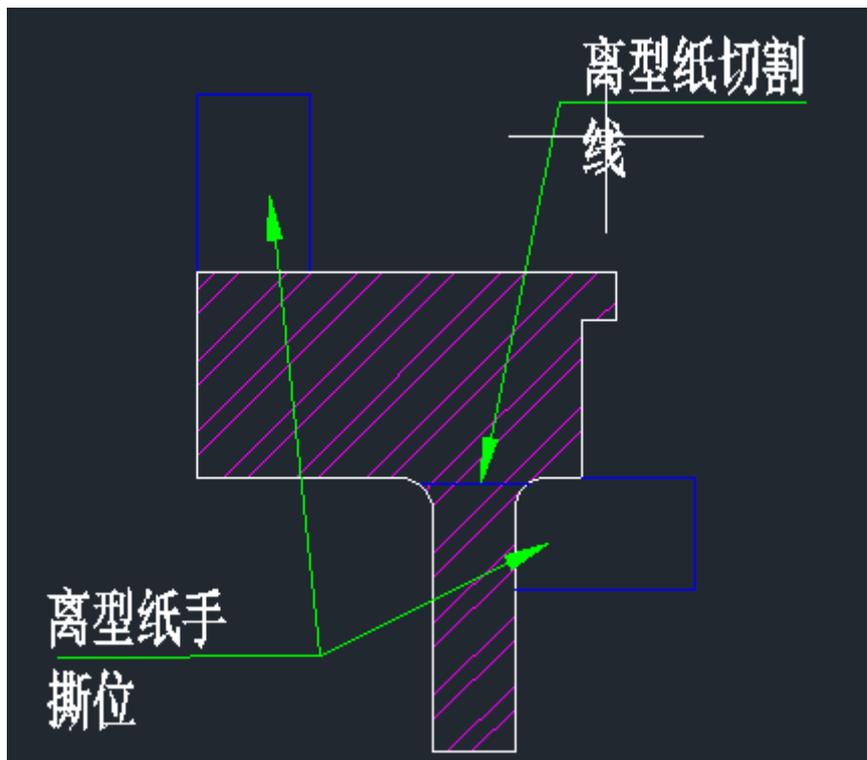
5、 Structure drawing

5.1 SDR antenna

Ant0



Ant1





Name of the antenna manufacturer: INPAQ Technology Suzhou CO.Ltd

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District, Suzhou, Jiangsu Province

Website of the antenna manufacturer: www.inpaq.com