

DJI Antenna Datasheet

RC520 antenna

2025-3-04



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Stephen.Wan	2025.03.04

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RC520 WiFi Ant		
2	Brand	DJI		
3	Operation Frequency	2.4~2.483GHz; 5.15~5.25GHz; 5.25~5.35GHz; 5.47~5.725GHz; 5.725~5.85GHz		
4	Connector Type	Ipex-1		
5	Impedance	50ohm		
6	Gain	3dBi@2.4~2.483GHz WIFI 4.1dBi@5.15~5.25GHz WIFI 4.2dBi@5.25~5.35GHz WIFI 4.7dBi@5.47~5.725GHz WIFI 5.8dBi@5.725~5.875GHz WIFI		
7	Efficiency	$\geq 20\%$ WIFI		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			
12	Antenna type	FPC		
13	Size	Ant0 35*10*0.150.		

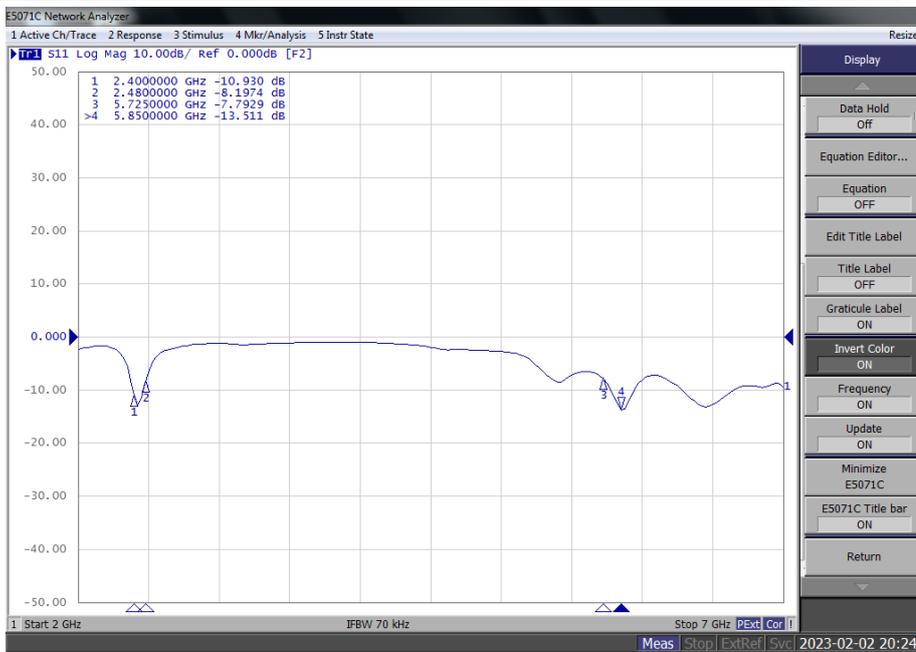


--	--	--	--	--

2、 Antenna Return Loss/VSWR

2.1 W IFI antenna return loss

Mark(GHz)	2.4	2.48	5.725	5.85
S11	-10.9	-8.2	-7.8	-13.5



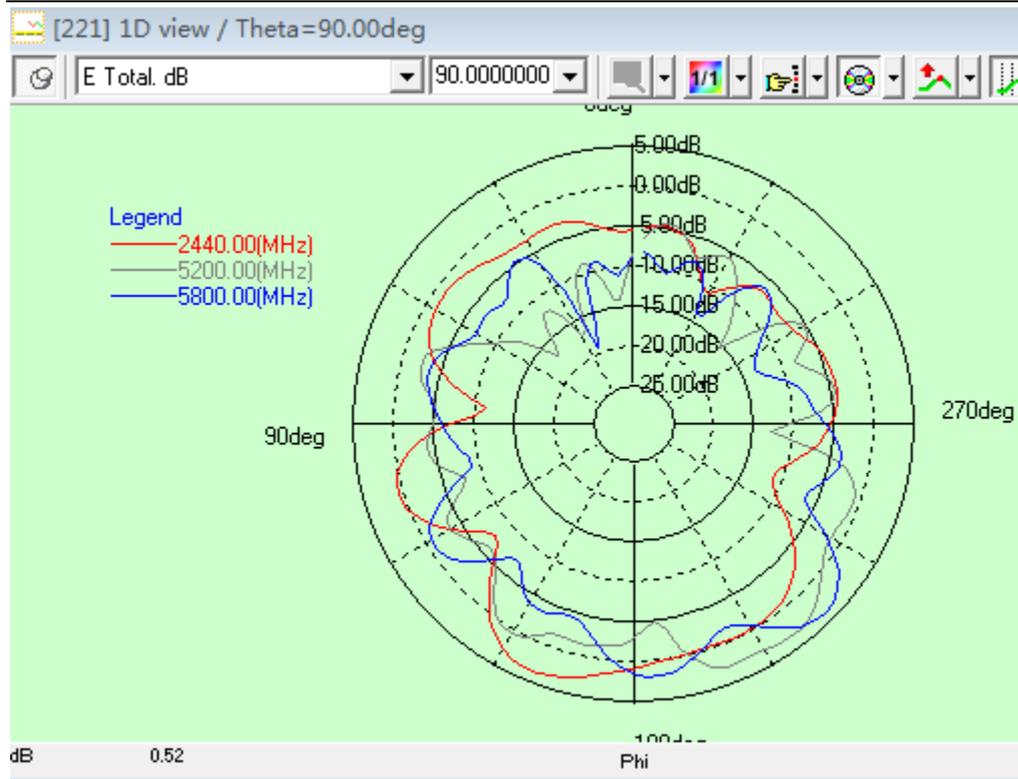
3、 Antenna Gain



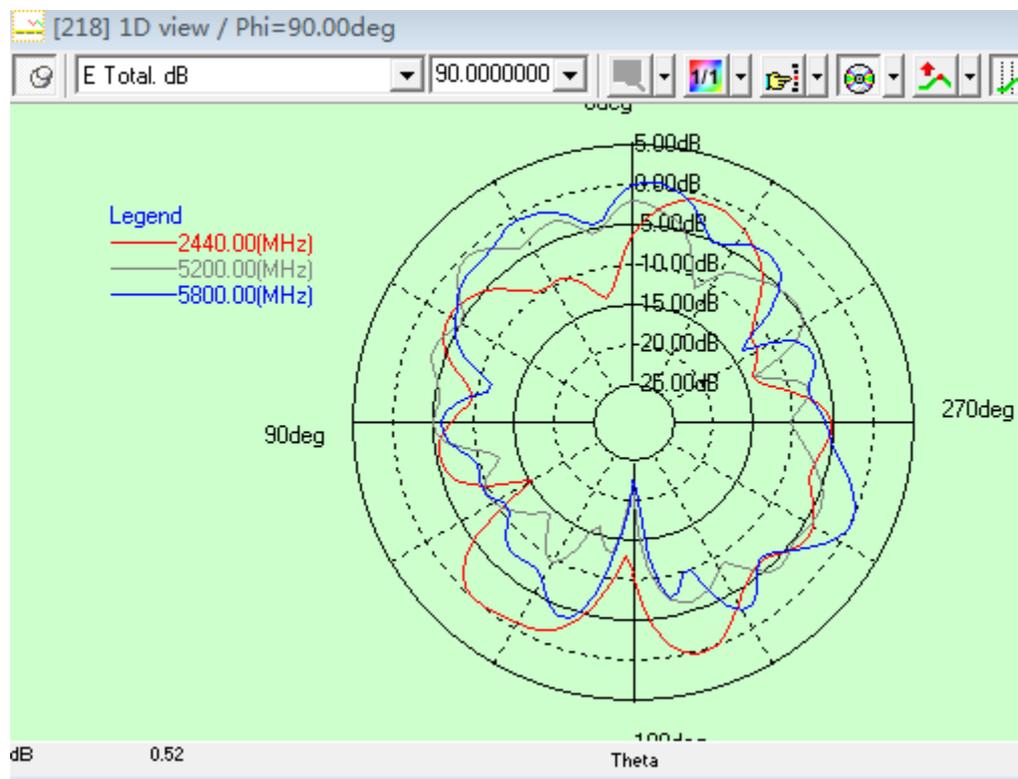
Frequency	Efficiency
2400MHz	54%
2440MHz	54%
2480MHz	55%
5205MHz	50%
5220MHz	52%
5730MHz	51%
5800MHz	52%
5850MHz	53%

3.1 wifi

水平面



垂直面





4、 Structure drawing

5.1 WIFI antenna

Name of the antenna manufacturer: INPAQTECHNOLOGY(SUZHOU)
CO., LTD.

Address of the antenna manufacturer: No.802 kexingxueyuan, Nanshan
District, Shenzhen, Guangdong Province

Website of the antenna manufacturer: www.inpaqgp.com