

DJI Antenna Datasheet
RC520 antenna

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; 5.725~5.85GHz		
4	Connector Type	Ipx-1		
5	Impedance	50ohm		
6	Gain	Ant0: 1.5dBi@2.4~2.483GHz WIFI -0.5dBi@5.15~5.25GHz WIFI 2dBi@5.725~5.875GHz WIFI Ant1: 1.5dBi@2.4~2.483GHz WIFI -0.5dBi@5.15~5.25GHz WIFI 2dBi@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		



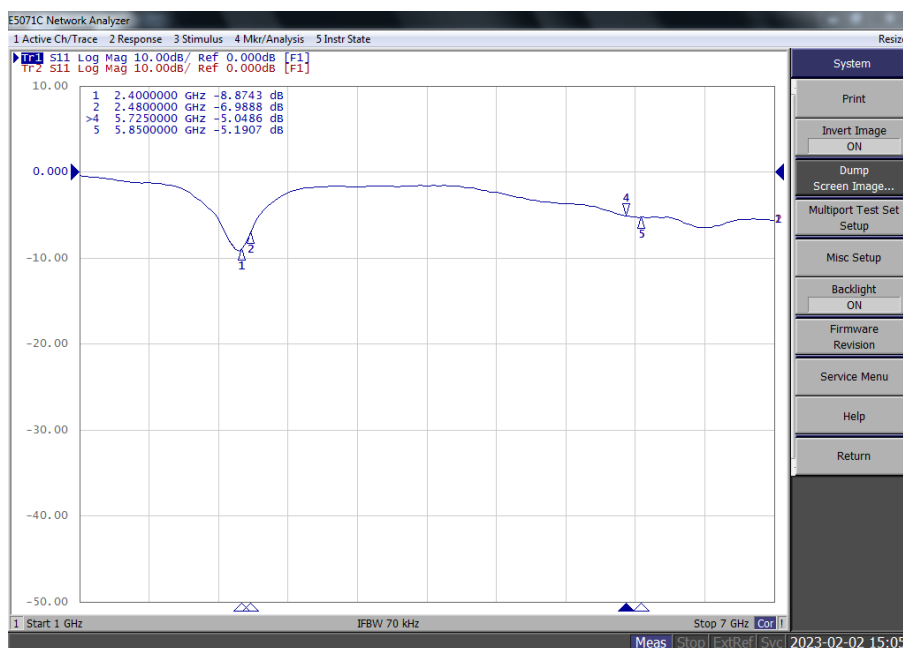
13	Size	Ant0 23.4*22.4*0.150. Ant1 23.4*22.4*0.150.		
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2、 Antenna Return Loss/VSWR

2.1 W IFI antenna return loss

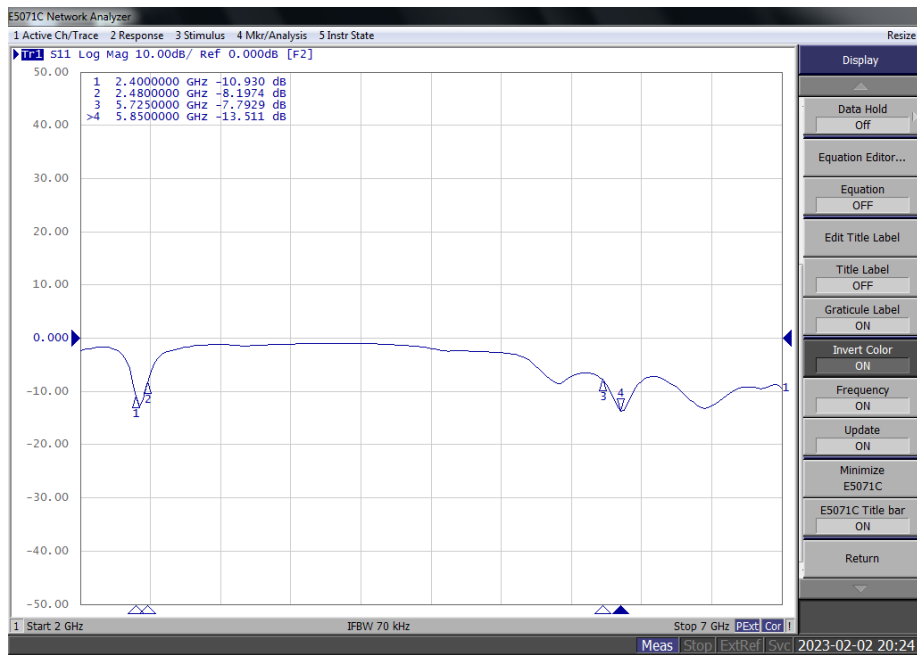
Ant0

Mark(GHz)	2.4	2.48	5.725	5.85
S11	-8.8	-7	-5	-5.2



Ant1

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

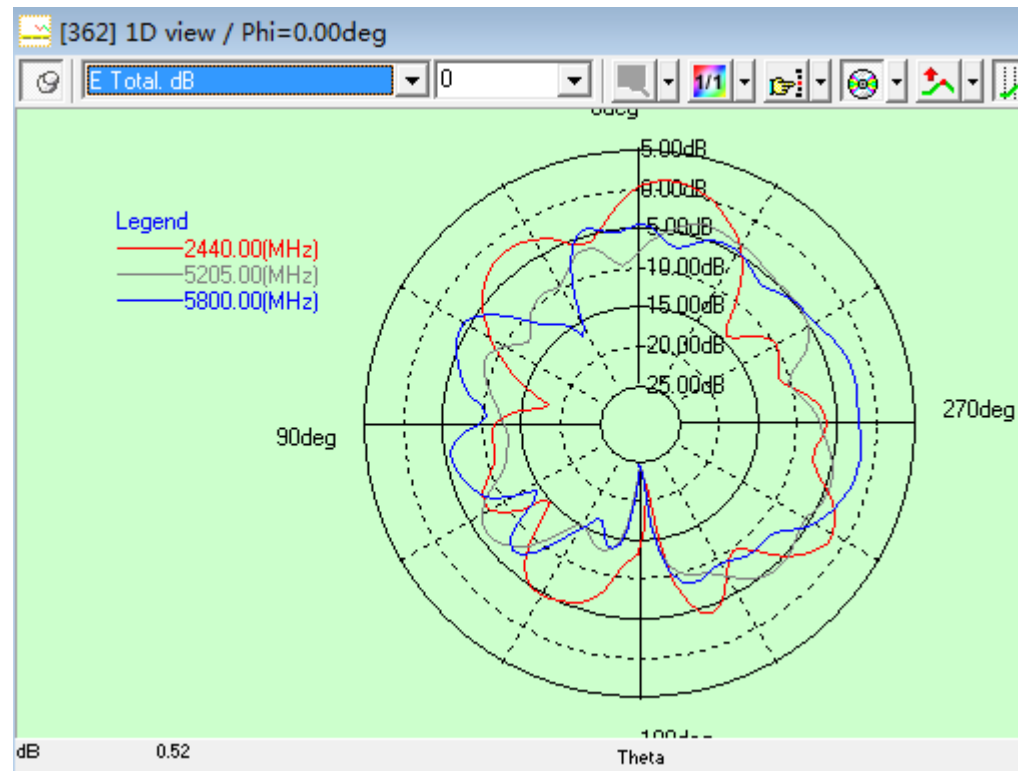


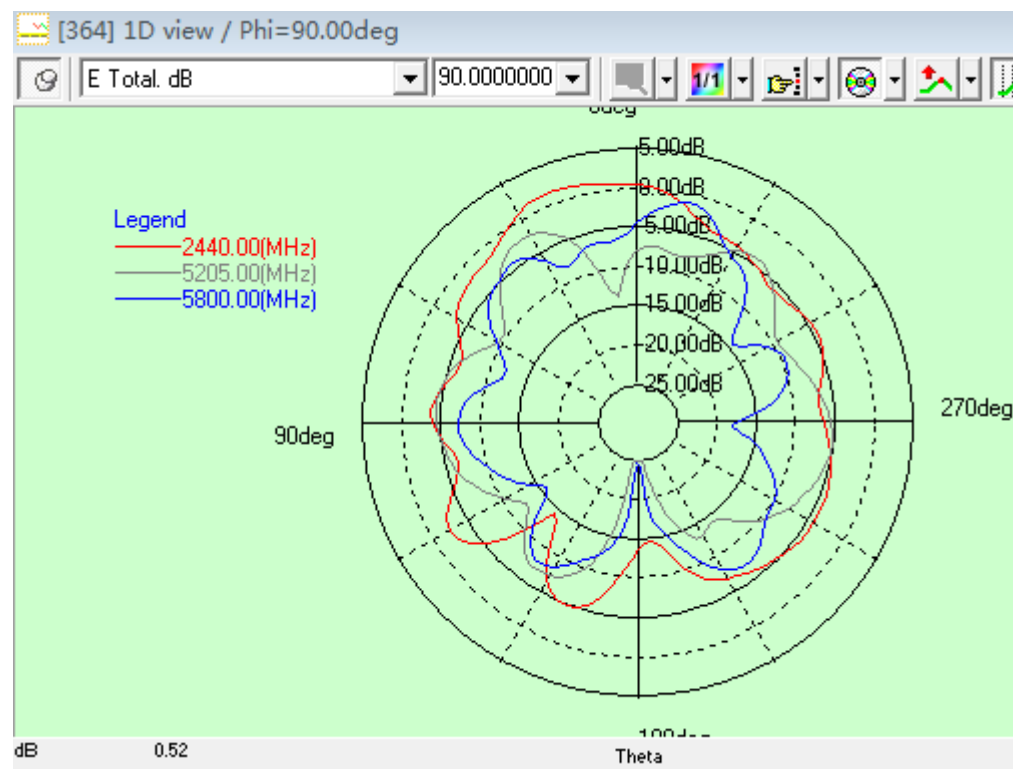
3、 Antenna Gain

	Ant0		Ant1	
Frequency	Efficiency	Gain. dB	Efficiency	Gain. dB
2400MHz	33%	1.50	34%	1.50
2440MHz	32%	1.50	33%	1.50
2480MHz	28%	1.00	30%	0.85
5205MHz	31%	-0.5	35%	-0.5
5220MHz	32%	-1	27%	-1.2
5730MHz	31%	1.48	34%	1.36
5800MHz	32%	2	28%	2.
5850MHz	29%	1.38	34%	1.47

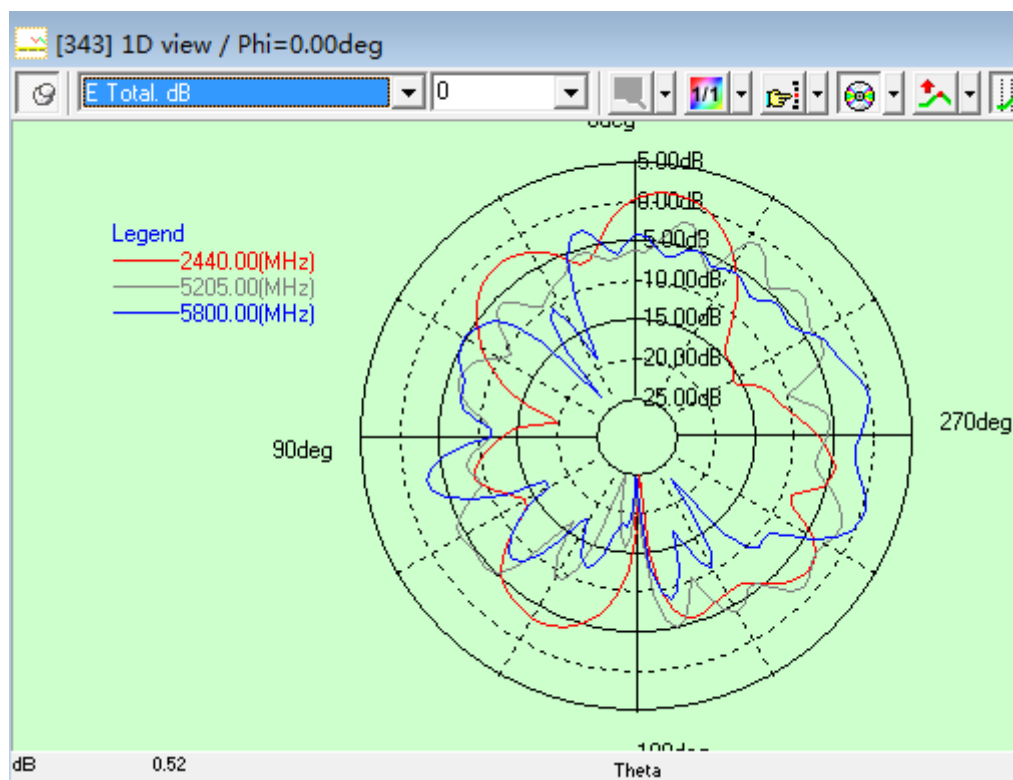
3.1 wifi

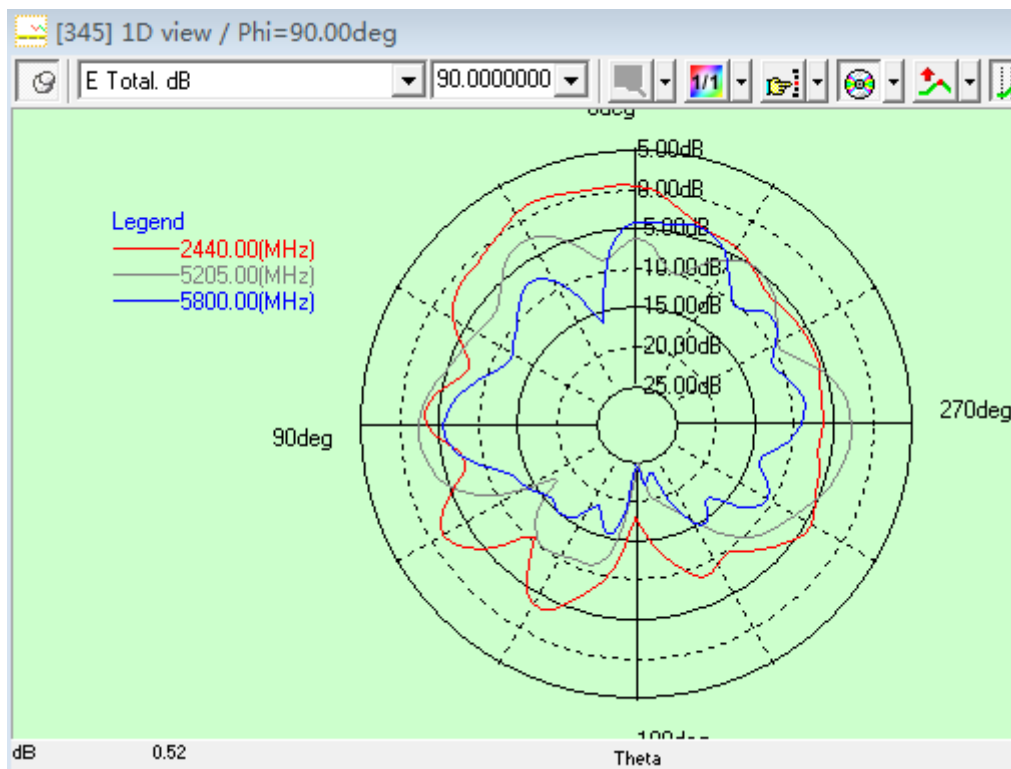
Ant0





Ant1





4、 Structure drawing

5.1 WIFI antenna

Ant0

22.4mm

Ant1



13.
4m
m

22.4mm

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

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

Website of the antenna manufacturer: www.inpaqgp.com