

DJI Antenna Datasheet
DJI Avinox Wireless Switch
BLUETOOTH ANTENNA
2024-3-28



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Freeman.deng	2024.3.28

DJI Antenna Datasheet

Manufacture:

Taiwan Inpaq electronic Co., Ltd.

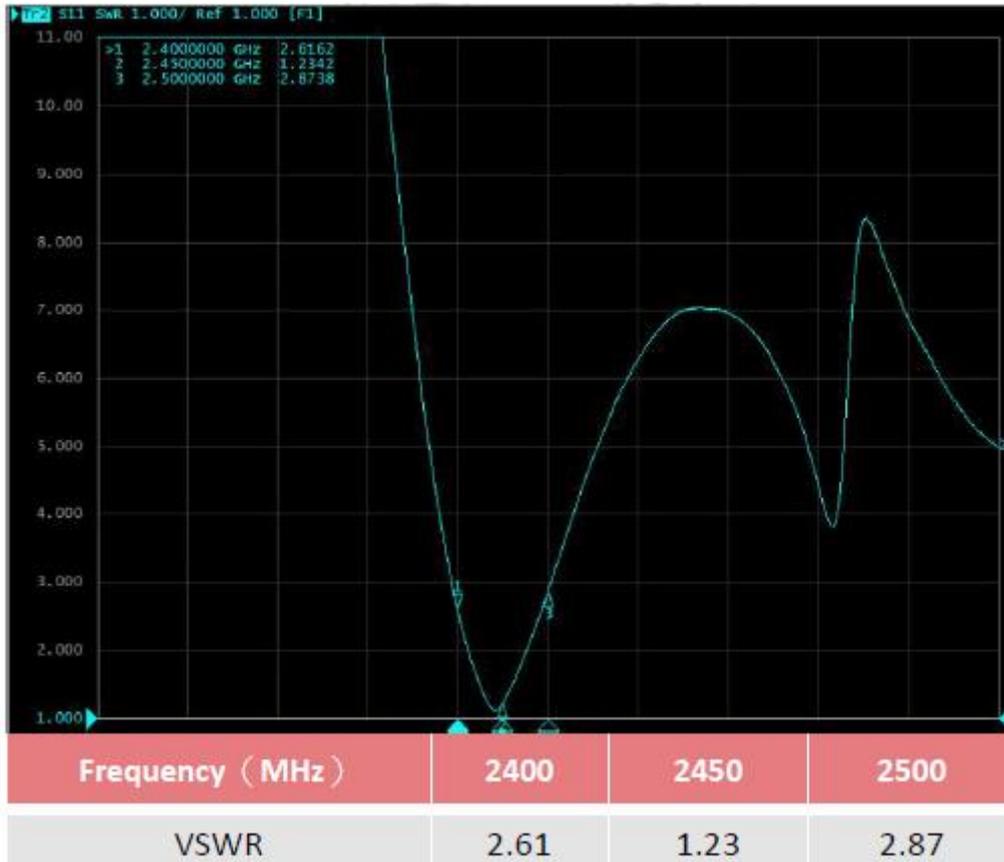
No. 90, Keyi Street, 11 Gongyi Lane, Zhunan Town, Miaoli County, Taiwan

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<i>Bluetooth Ant</i>		
2	Model	<i>ACA-5020-A2-MC-S</i>		
3	Type	<i>Chip</i>		
4	Brand	<i>DJI</i>		
5	Operation Frequency	<i>2.4~2.483GHz;</i>		
6	Connector Type	<i>None</i>		
7	Impedance	<i>50ohm</i>		
8	Gain	<i>0dBi@2.4~2.483GHz</i>		
9	Efficiency	<i>≥15%</i>		
10	VSWR	<i>≤3</i>		
11	Polarization type	<i>Linear</i>		
12	3dB Beamwidth	<i>Omnidirectional</i>		
14	Weight	<i>/</i>		

2、 Return Loss

Insert radiation return loss.



Radiation Pattern

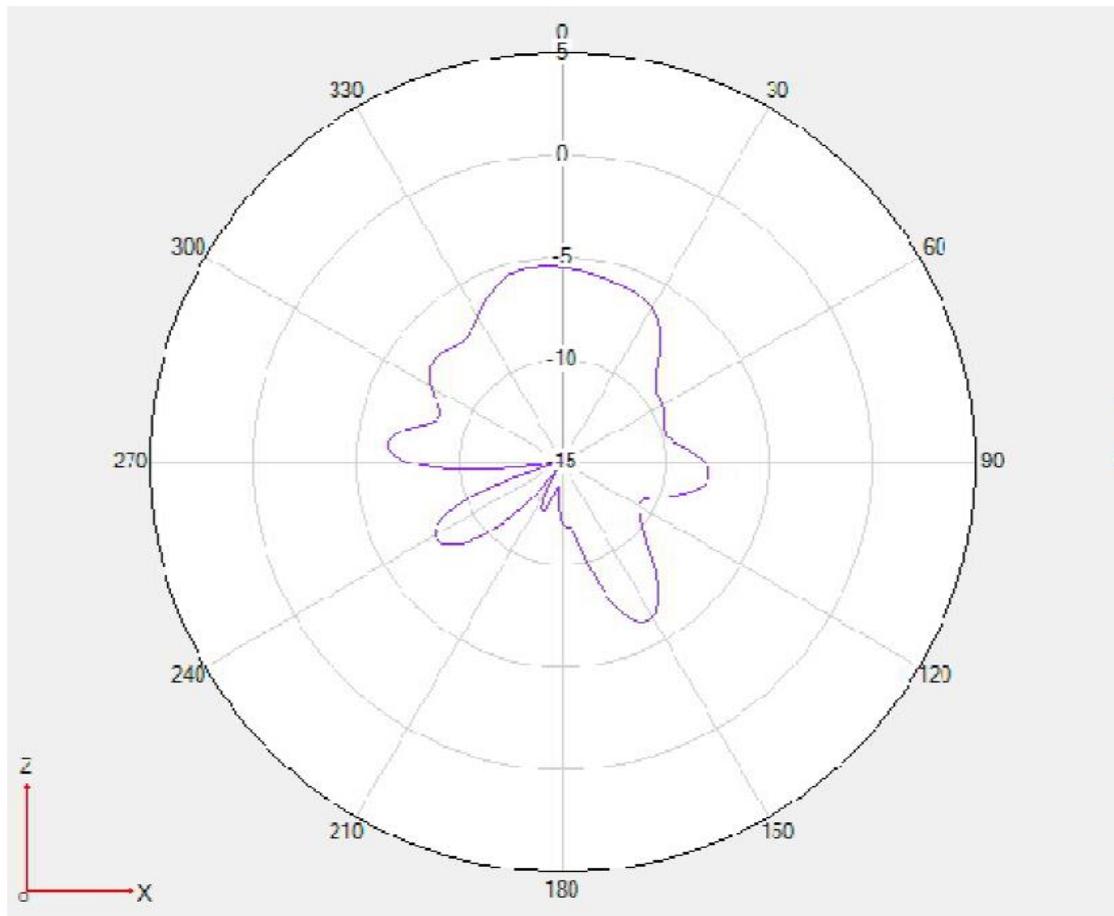
Test lab: Satimo SG24

Test date:20240312

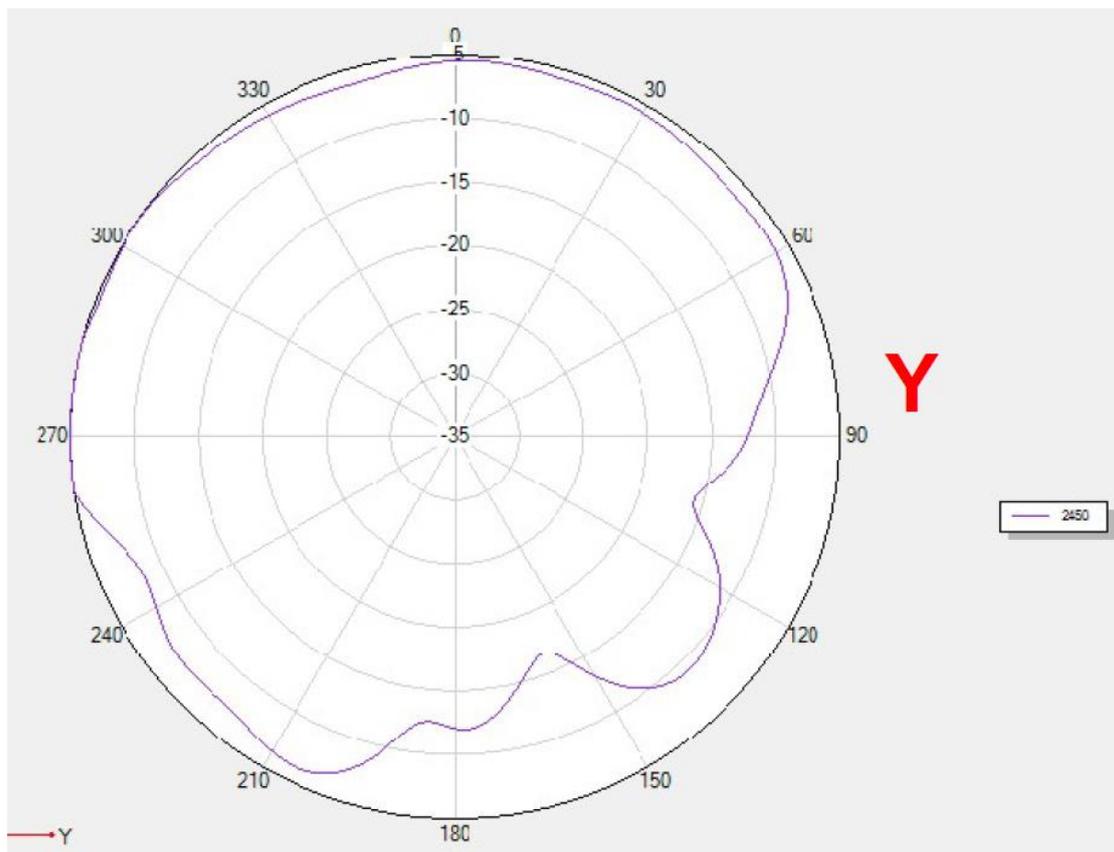
5020竖放装整机 串3.6nH,并1.2pF

Frequency/Mhz	Efficiency/dB	Efficiency/%
2350	-7.93	16.11
2360	-7.94	16.07
2370	-7.92	16.14
2380	-7.62	17.3
2390	-7.82	16.52
2400	-7.52	17.7
2410	-7.51	17.74
2420	-7.41	18.16
2430	-7.39	18.24
2440	-7.43	18.07
2450	-7.29	18.66
2460	-7.54	17.62
2470	-7.34	18.45
2480	-7.58	17.46
2490	-7.47	17.91
2500	-7.76	16.75
2510	-7.61	17.34
2520	-7.86	16.37
2530	-8.01	15.81
2540	-8.21	15.1
2550	-8.43	14.35

$\Phi = 0$

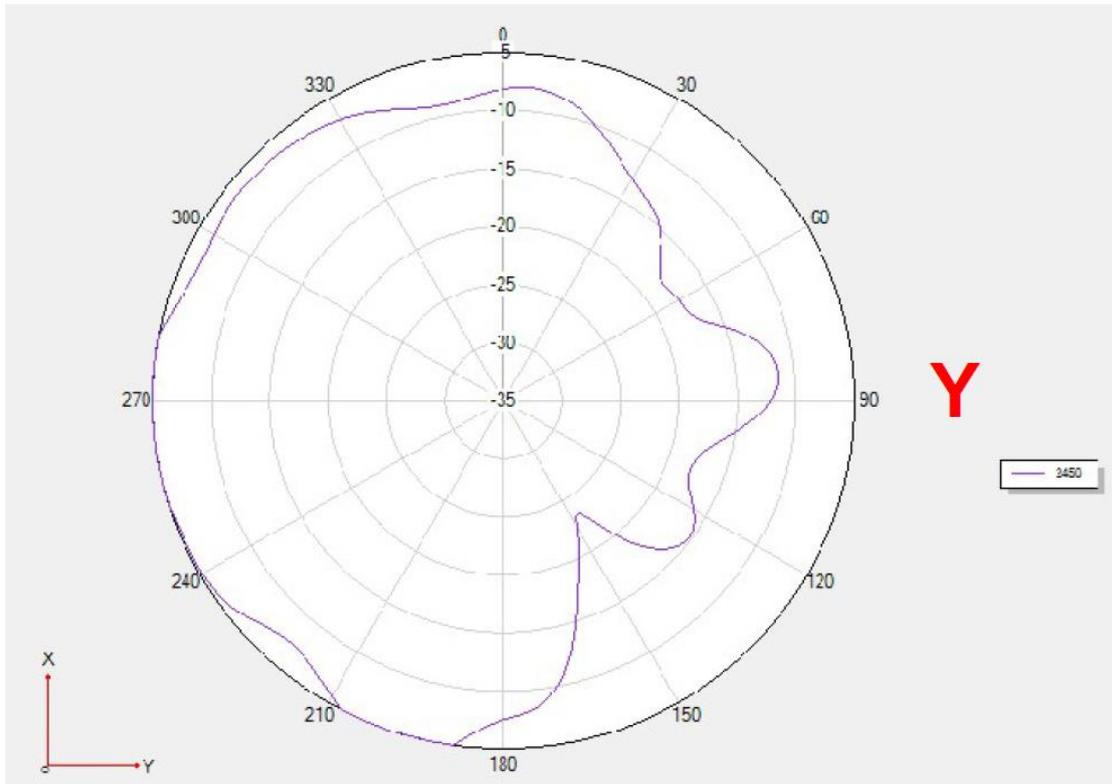


Phi = 90



Theta = 90

■ X



3、 Structure drawing

