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DJI Antenna Datasheet

antenna

2024-06-20

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Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Zhe.Peng	2024.09.24

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# DJI Antenna Datasheet Ant0

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant0</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<u>-1dBi@2.4~2.483GHz</u> sdr <u>1dbi@5.2GHz</u> sdr <u>2dBi@5.725~5.875GHz</u> sdr		
6	Efficiency	$\geq 25\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	-		
10	Weight	-		
11	Antenna type	Dipole		
12	Manufacturer			

## 2、 Antenna Return Loss/VSWR

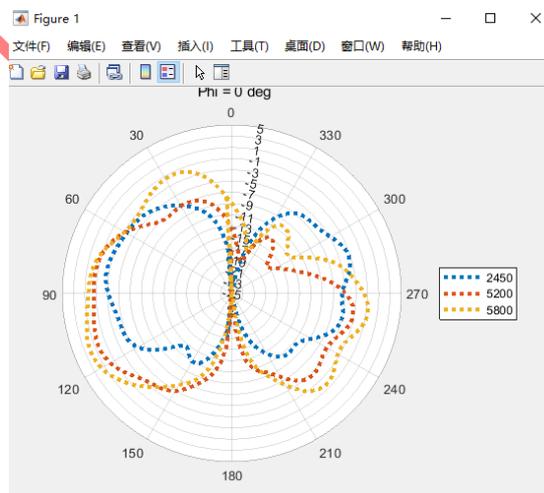
Frequency	Efficiency	Gain(dBi)
2400MHz	29%	-1.1
2410MHz	33%	-1.2
2420MHz	34%	-1
2450MHz	34%	-1.2
2470MHz	34%	-1.3
2483MHz	35%	-1.2

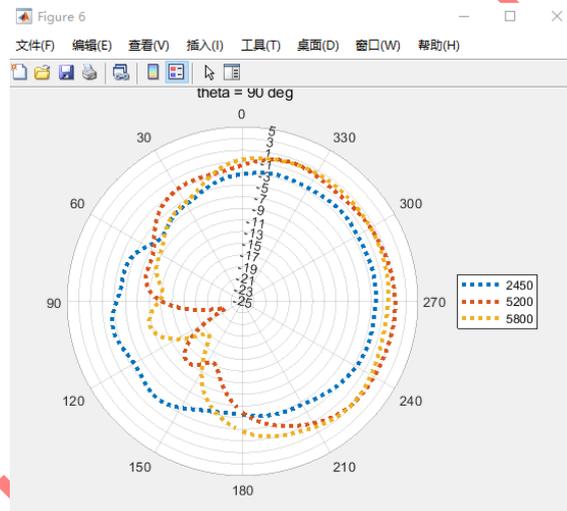
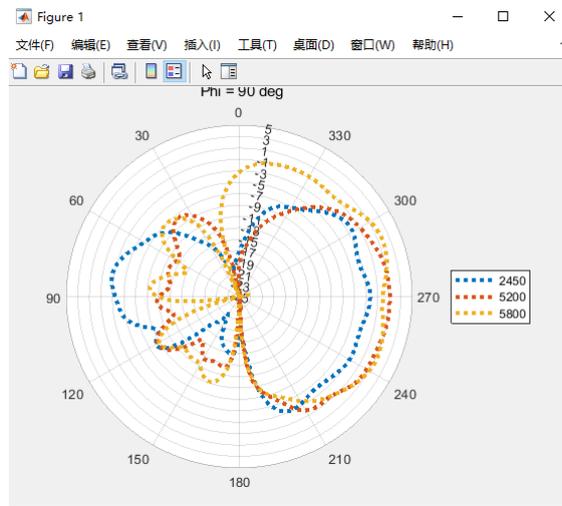
Frequency	Efficiency	Gain(dBi)
5150MHz	35%	0.8
5200MHz	38%	1.0
5725MHz	33%	1.0
5775MHz	31%	1.5
5800MHz	29%	1.5
5825MHz	29%	2.0
5850MHz	26%	1.5

## 3、 Antenna Pattern

Measurement System: Satimo

Antenna Pattern:





#### 4、Antenna drawing



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# DJI Antenna Datasheet Ant1

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant1</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<u>-1dBi@2.4~2.483GHz</u> sdr <u>1dbi@5.2GHz</u> sdr <u>2dBi@5.725~5.875GHz</u> sdr		
6	Efficiency	$\geq 30\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			



## 2、 Antenna Return Loss/VSWR

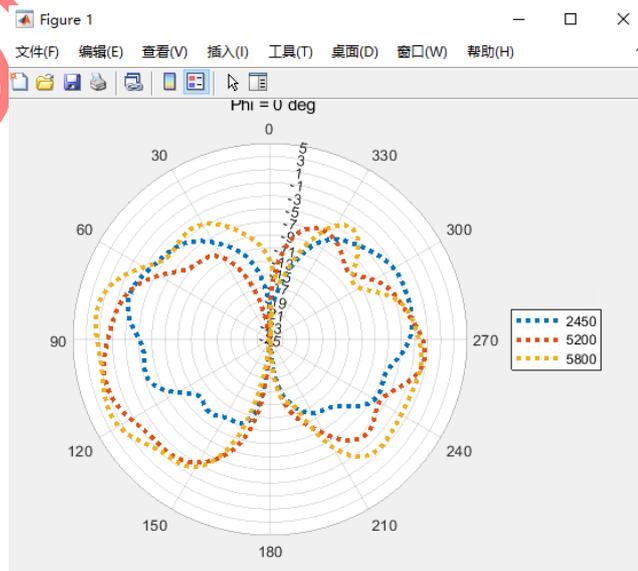
Frequency	Efficiency	Gain(dBi)
2400MHz	30%	-1.1
2410MHz	35%	-1.0
2420MHz	37%	-1.1
2450MHz	40%	-1.0
2470MHz	36%	-1.1
2483MHz	32%	-1.3

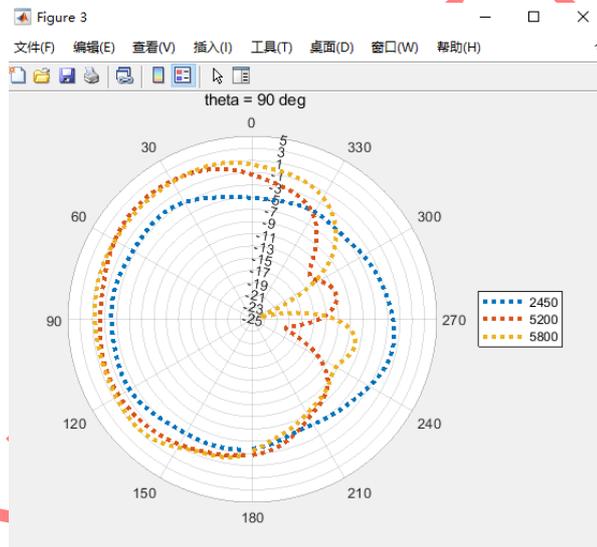
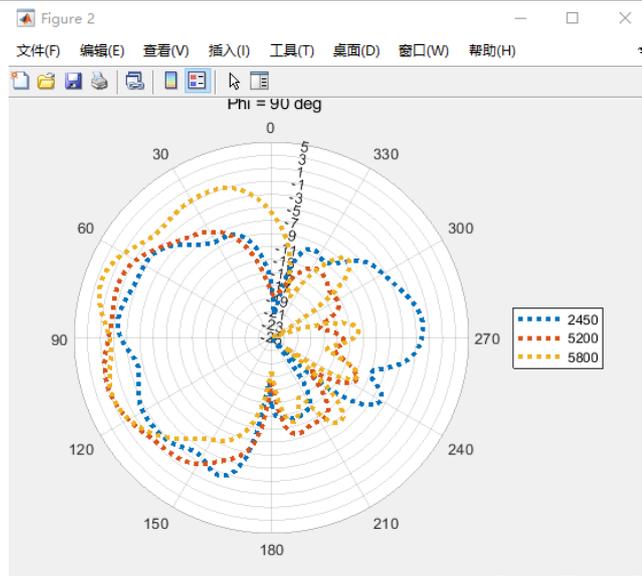
Frequency	Efficiency	Gain(dBi)
5150MHz	32%	0.3
5200MHz	33%	1.0
5725MHz	33%	1.3
5775MHz	33%	1.3
5800MHz	31%	2.0
5825MHz	29%	1.8
5850MHz	29%	1.9

## 3、 Antenna Pattern

Measurement System: Satimo

Antenna Pattern:





#### 4、 Antenna drawing



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# DJI Antenna Datasheet Ant2

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant2</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">1.5dBi@2.4~2.483GHz</a> sdr <a href="#">2dbi@5.2GHz</a> sdr <a href="#">2.5dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			

## 2、 Antenna Return Loss/VSWR



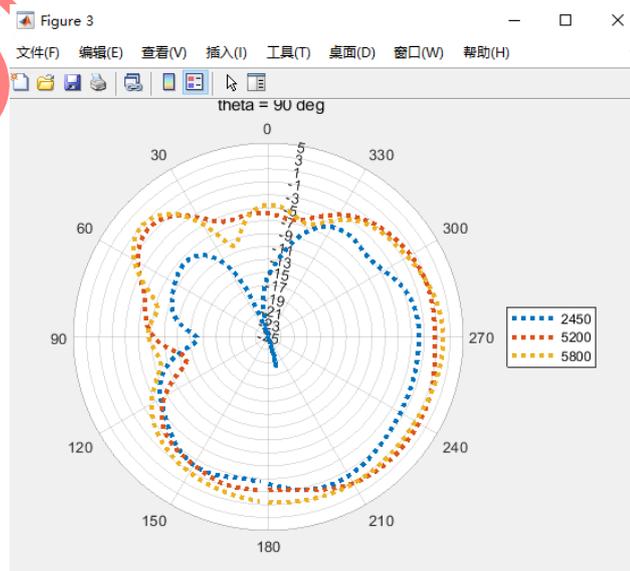
Frequency	Efficiency	Gain(dBi)
2400MHz	45%	1.2
2410MHz	46%	1.4
2420MHz	48%	1.1
2450MHz	45%	1.5
2470MHz	41%	1.5
2483MHz	45%	1.4

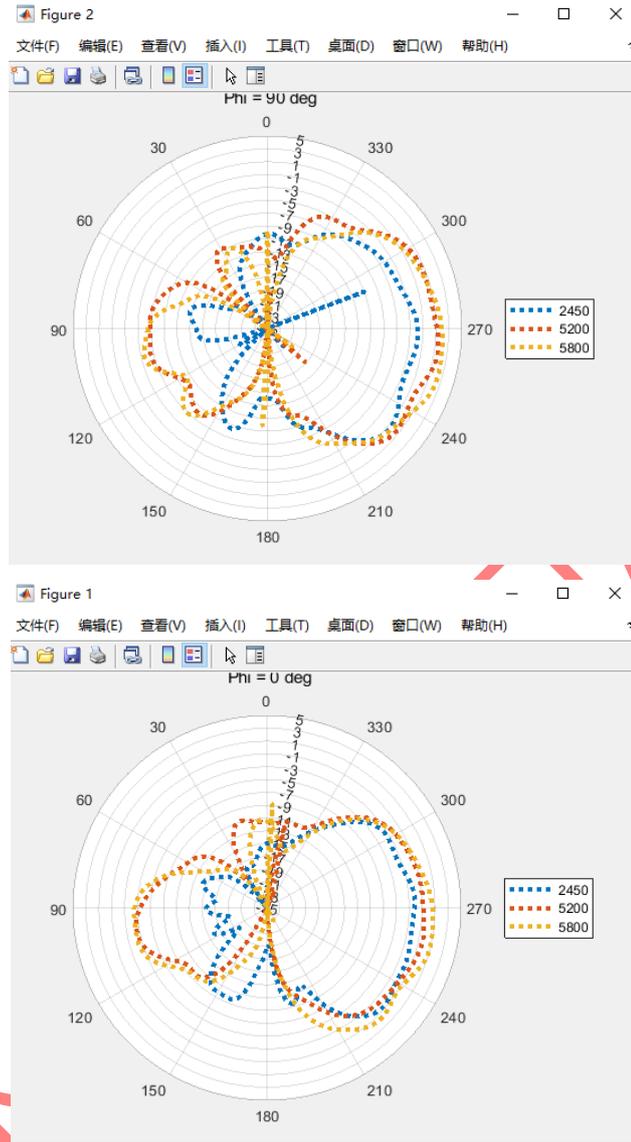
Frequency	Efficiency	Gain(dBi)
5150MHz	51%	1.7
5200MHz	55%	2.0
5725MHz	52%	2.4
5775MHz	50%	2.3
5800MHz	48%	2.5
5825MHz	48%	2.5
5850MHz	44%	2.4

### 3、 Antenna Pattern

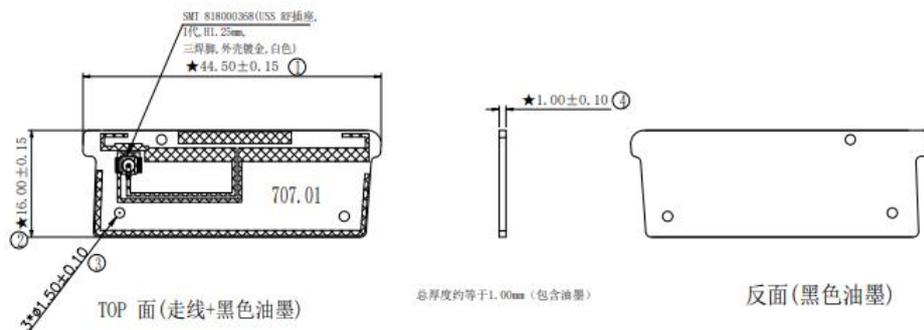
Measurement System: Satimo

Antenna Pattern:





#### 4、 Antenna drawing





# DJI Antenna Datasheet Ant3

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant3</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">1.5dBi@2.4~2.483GHz</a> sdr <a href="#">2dbi@5.2GHz</a> sdr <a href="#">2.5dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			

## 2、 Antenna Return Loss/VSWR

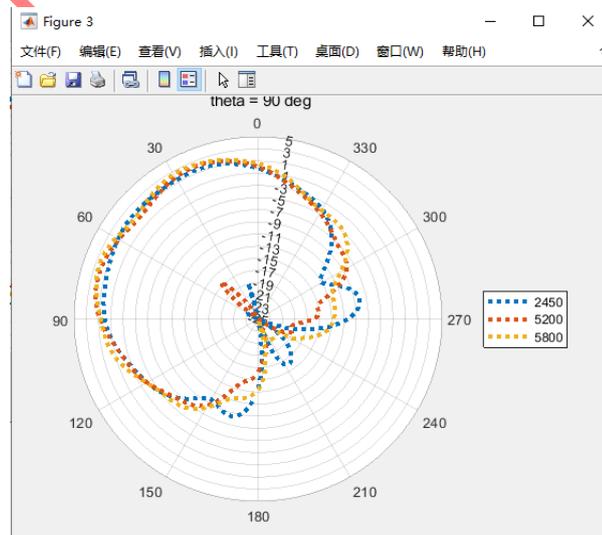
Frequency	Efficiency	Gain(dBi)
2400MHz	34%	1.4
2410MHz	34%	1.3
2420MHz	34%	1.5
2450MHz	35%	1.3
2470MHz	34%	1.2
2483MHz	28%	1.0

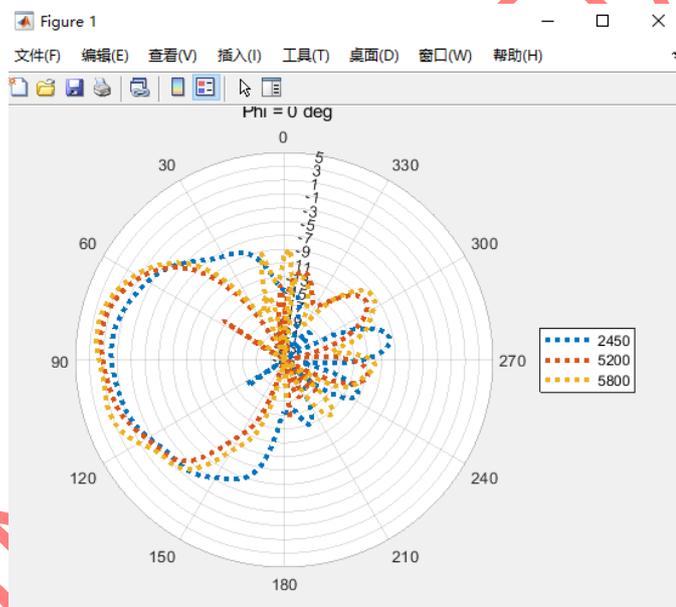
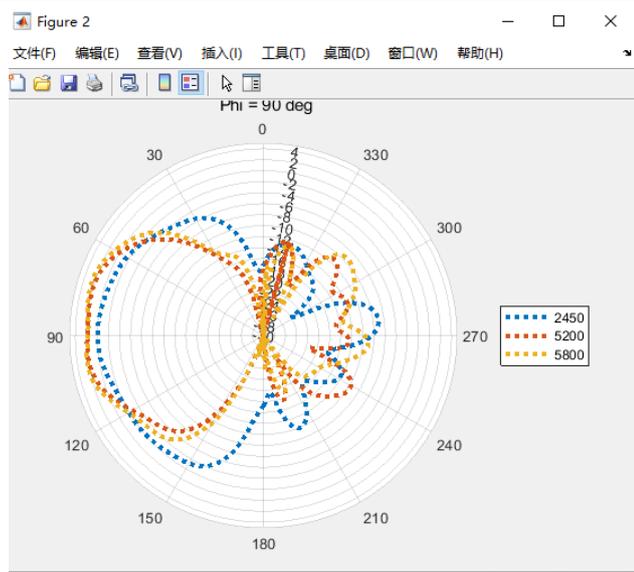
Frequency	Efficiency	Gain(dBi)
5150MHz	33%	2.0
5200MHz	33%	1.5
5725MHz	37%	2.4
5775MHz	36%	2.3
5800MHz	32%	2.4
5825MHz	30%	2.5
5850MHz	33%	2.3

## 3、 Antenna Pattern

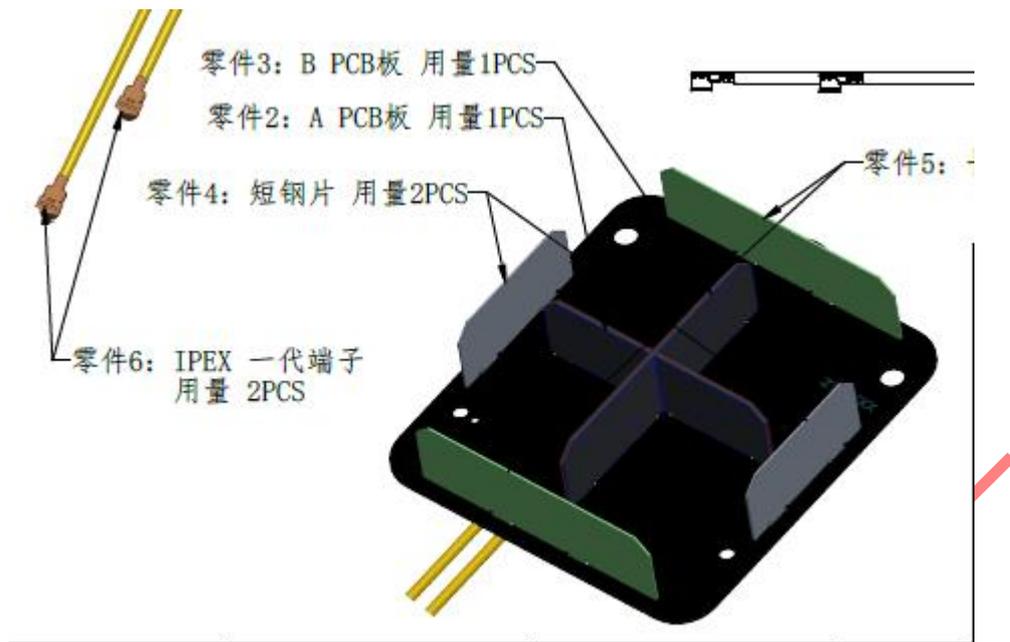
Measurement System: Satimo

Antenna Pattern:





#### 4、 Antenna Structure



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# DJI Antenna Datasheet Ant4

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant4</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">1dBi@2.4~2.483GHz</a> sdr <a href="#">2dBi@5.2GHz</a> sdr <a href="#">3dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			



## 2、 Antenna Return Loss/VSWR

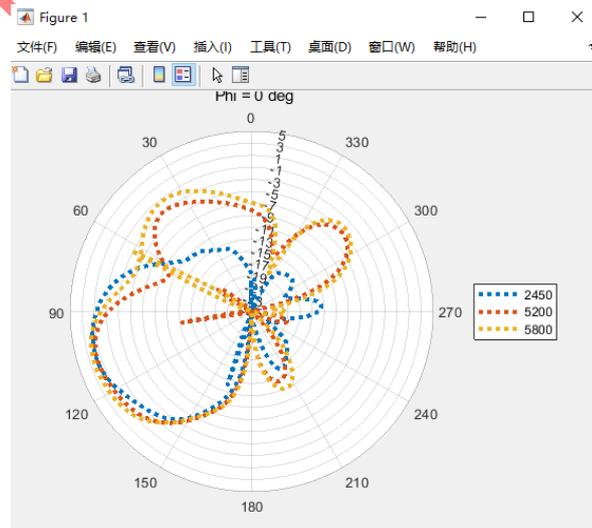
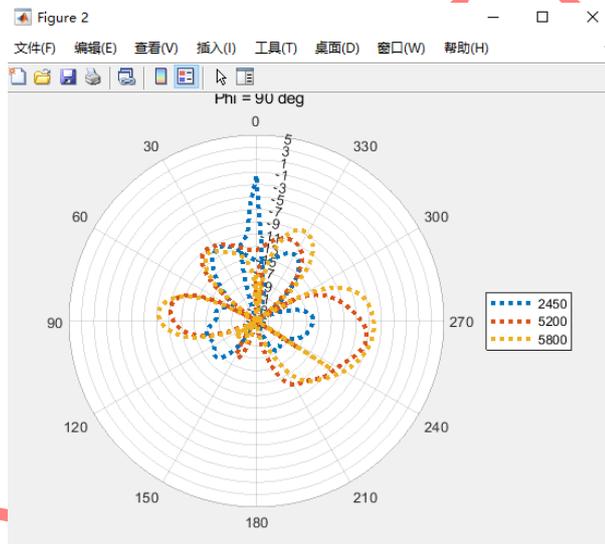
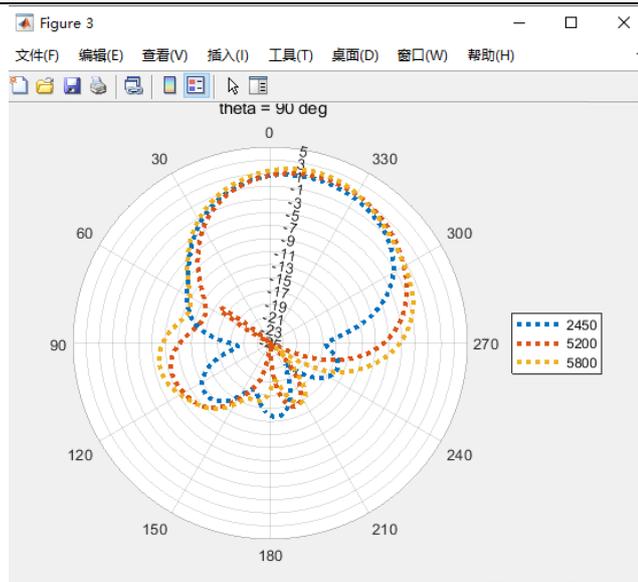
Frequency	Efficiency	Gain(dBi)
2400MHz	48%	0.7
2410MHz	42%	0.5
2420MHz	44%	0.8
2450MHz	51%	0.9
2470MHz	55%	1.0
2483MHz	52%	0.9

Frequency	Efficiency	Gain(dBi)
5150MHz	36%	1.7
5200MHz	40%	2.0
5725MHz	54%	2.9
5775MHz	56%	3.0
5800MHz	58%	3.0
5825MHz	58%	2.4
5850MHz	57%	2.5

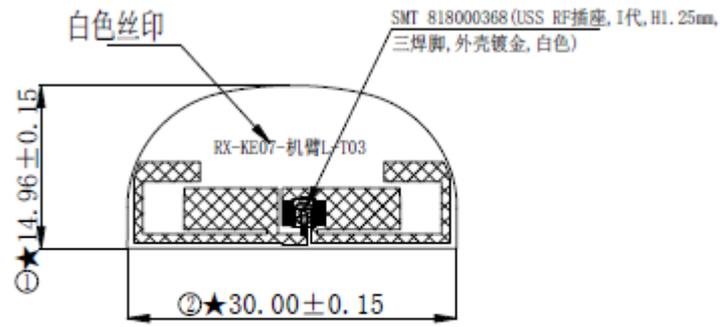
## 3、 Antenna Pattern

Measurement System: Satimo

Antenna Pattern:



#### 4、 Antenna Structure



正面(走线+黑色油墨+IPEX 1代板端)

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# DJI Antenna Datasheet Ant5

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant5</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">1.5dBi@2.4~2.483GHz</a> sdr <a href="#">2dbi@5.2GHz</a> sdr <a href="#">2.5dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			

## 2、 Antenna Return Loss/VSWR

Frequency	Efficiency	Gain(dBi)
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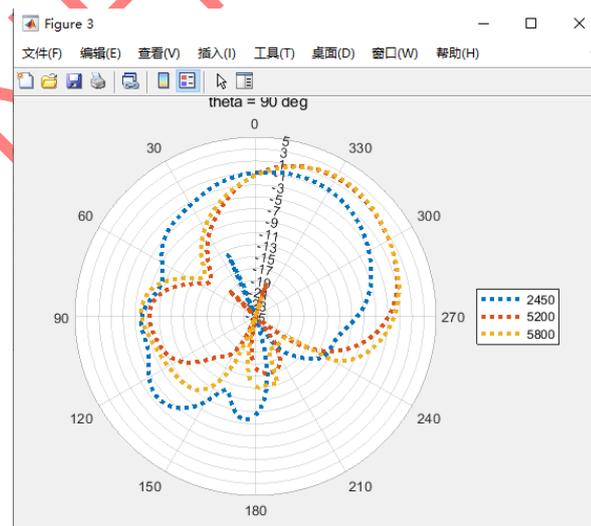
2400MHz	33%	1.0
2410MHz	32%	1.0
2420MHz	33%	0.9
2450MHz	31%	0.7
2470MHz	30%	0.7
2483MHz	30%	0.8

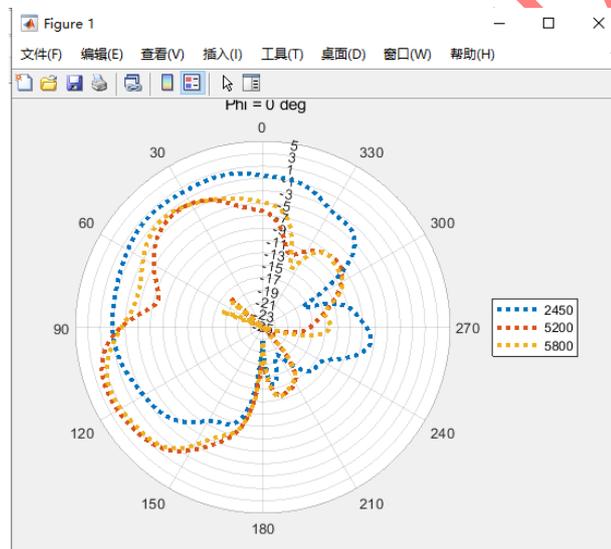
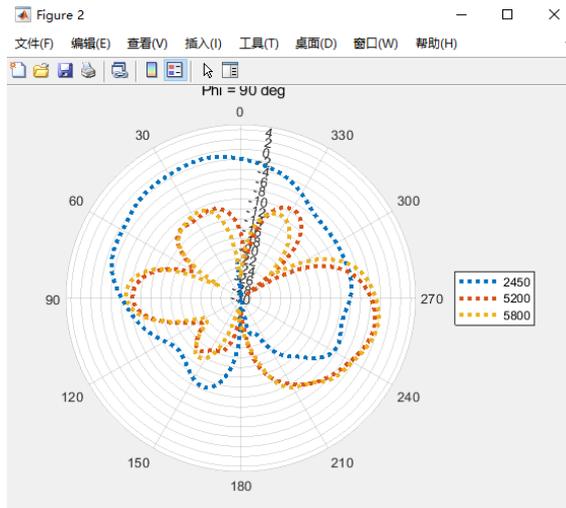
Frequency	Efficiency	Gain(dBi)
5150MHz	41%	1.5
5200MHz	34%	1.3
5725MHz	38%	1.6
5775MHz	36%	2.0
5800MHz	35%	1.8
5825MHz	35%	1.7
5850MHz	36%	1.6

### 3、 Antenna Pattern

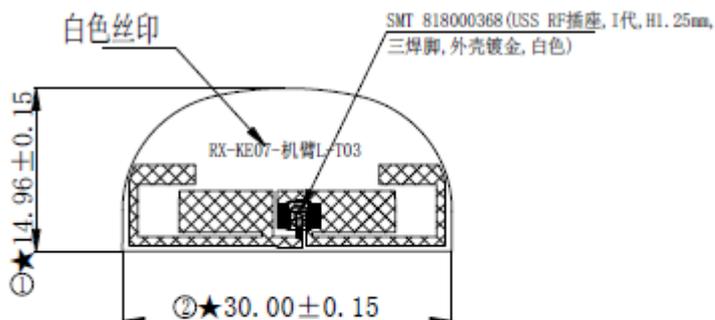
Measurement System: Satimo

Antenna Pattern:





#### 4、Antenna Structure



正面(走线+黑色油墨+IPEX 1代板端)



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# DJI Antenna Datasheet Ant6

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant6</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">1.5dBi@2.4~2.483GHz</a> sdr <a href="#">2dbi@5.2GHz</a> sdr <a href="#">2.5dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			



## 2、 Antenna Return Loss/VSWR

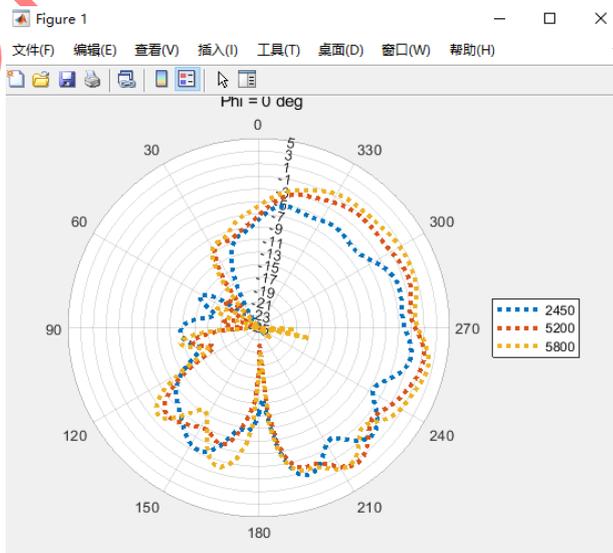
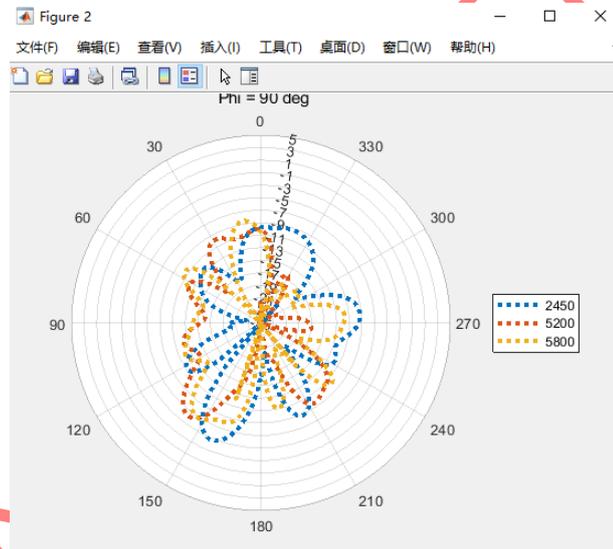
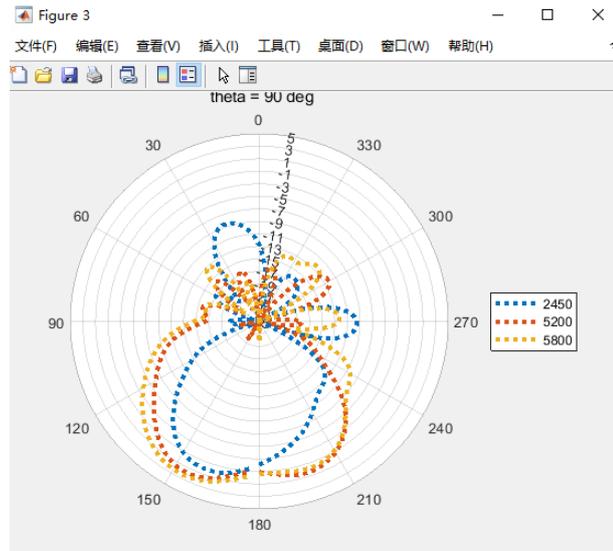
Frequency	Efficiency	Gain(dBi)
2400MHz	33%	1.0
2410MHz	32%	1.0
2420MHz	33%	0.9
2450MHz	31%	0.7
2470MHz	30%	0.7
2483MHz	30%	0.8

Frequency	Efficiency	Gain(dBi)
5150MHz	41%	1.5
5200MHz	34%	1.3
5725MHz	38%	1.6
5775MHz	36%	2.0
5800MHz	35%	1.8
5825MHz	35%	1.7
5850MHz	36%	1.6

## 3、 Antenna Pattern

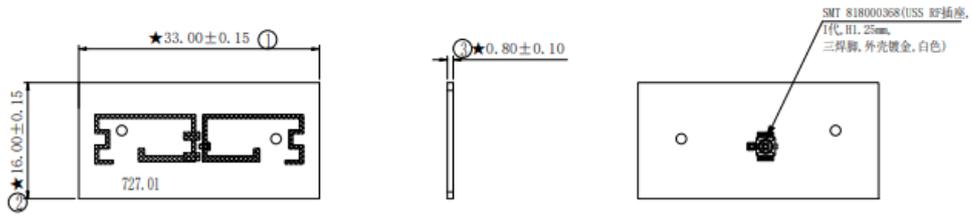
Measurement System: Satimo

Antenna Pattern:



COM

#### 4、 Antenna Structure



TOP 面(走线+黑色油墨)

总厚度约等于0.85mm (包含油墨)

反面(SMTIPEX+黑色油墨)

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# DJI Antenna Datasheet Ant7

## 1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>SDR Ant7</u>		
2	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.125-5.25GHz;</u> <u>5.725~5.85GHz</u>		
3	Connector Type	Ipex-1		
4	Impedance	50ohm		
5	Gain	<a href="#">2.5dBi@2.4~2.483GHz</a> sdr <a href="#">3dbi@5.2GHz</a> sdr <a href="#">3.5dBi@5.725~5.875GHz</a> sdr		
6	Efficiency	$\geq 60\%$ SDR		
7	VSWR	$\leq 2.5$		
8	Polarization type	Linear		
9	3dB Beamwidth	Omnidirectional horizon		
10	Antenna type	Dipole		
12	Manufacturer			

## 2、 Antenna Return Loss/VSWR

Frequency	Efficiency	Gain(dBi)
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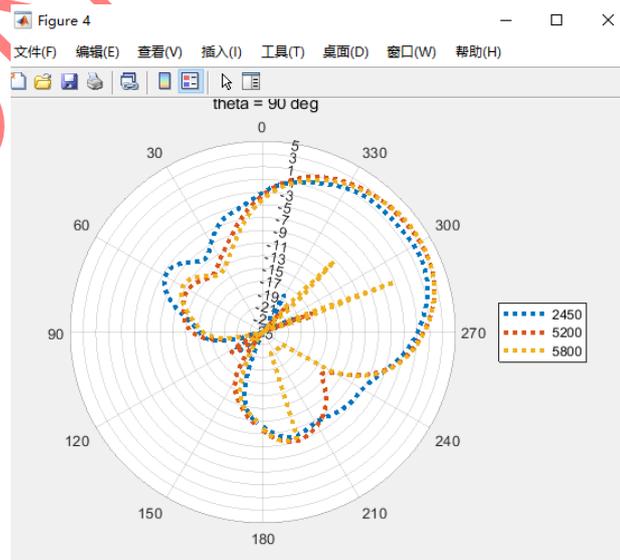
2400MHz	43%	2.2
2410MHz	44%	2.3
2420MHz	44%	2.2
2450MHz	46%	2.4
2470MHz	47%	2.5
2483MHz	42%	2.0

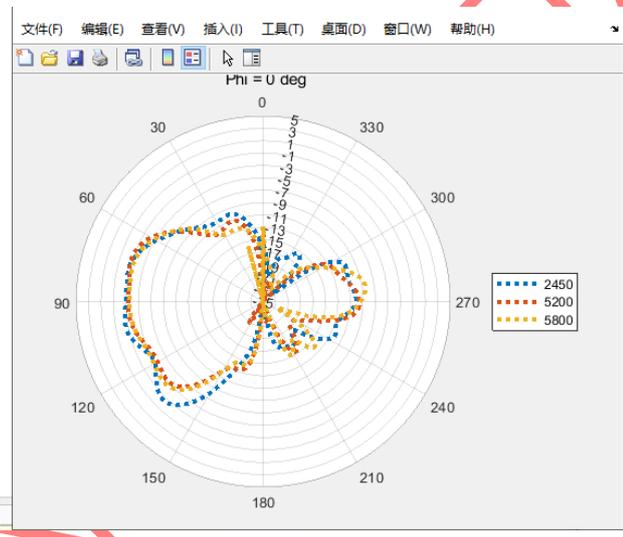
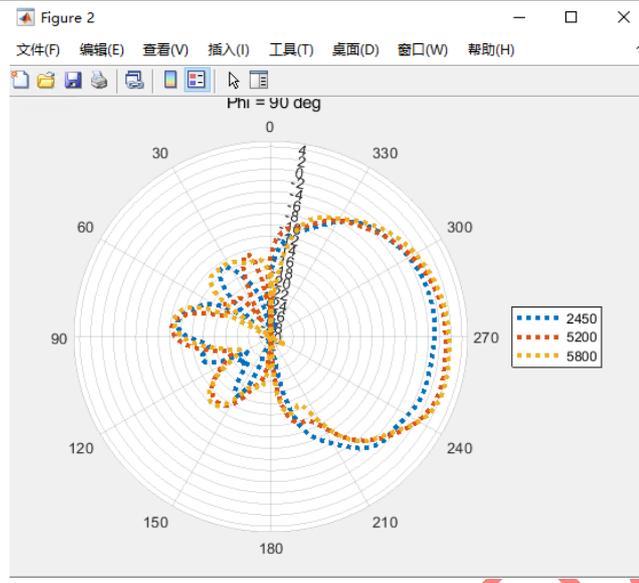
Frequency	Efficiency	Gain(dBi)
5150MHz	47%	2.8
5200MHz	47%	3.0
5725MHz	44%	3.0
5775MHz	54%	3.4
5800MHz	51%	3.2
5825MHz	52%	3.5
5850MHz	55%	3.1

### 3、 Antenna Pattern

Measurement System: Satimo

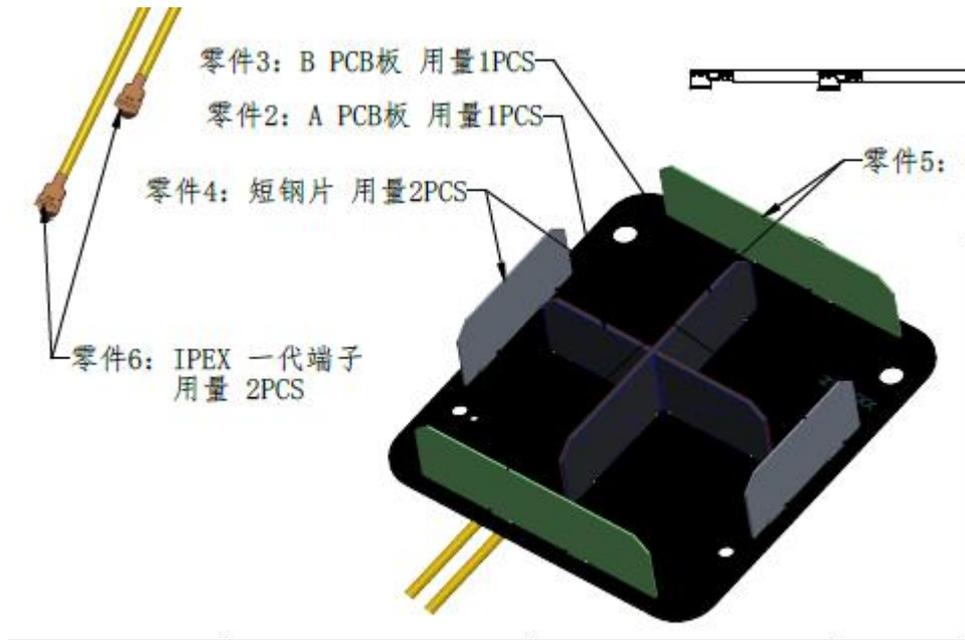
Antenna Pattern:





4、 Antenna Structure

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