

DJI Antenna Datasheet

PM320 4G antenna

2022-02-24



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Dave.li	2022.02.24

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	PM320 4G Ant		
2	Brand	DJI		
3	Operation Frequency	700~960MHz 1710~2690MHz		
4	Connector Type	TS5		
5	Impedance	50ohm		
6	Gain	$\leq -3\text{dBi}$ @ 617~960MHz $\leq -3\text{dBi}$ @ 1710~2690MHz		
7	Efficiency	$\geq 8\%$		
8	VSWR	≤ 4		
9	Polarization type	Linear		
10	3dB Beam width	Omnidirectional		
11	Weight	2g		
12	Antenna type	IFA antenna		

4G antenna efficiency and gain:

Frequency (MHz)	Efficiency (dB)	Gain (dBi)
700	-10.62	-6.43
710	-10.98	-7.32
720	-10.99	-6.86
730	-11.04	-6.97



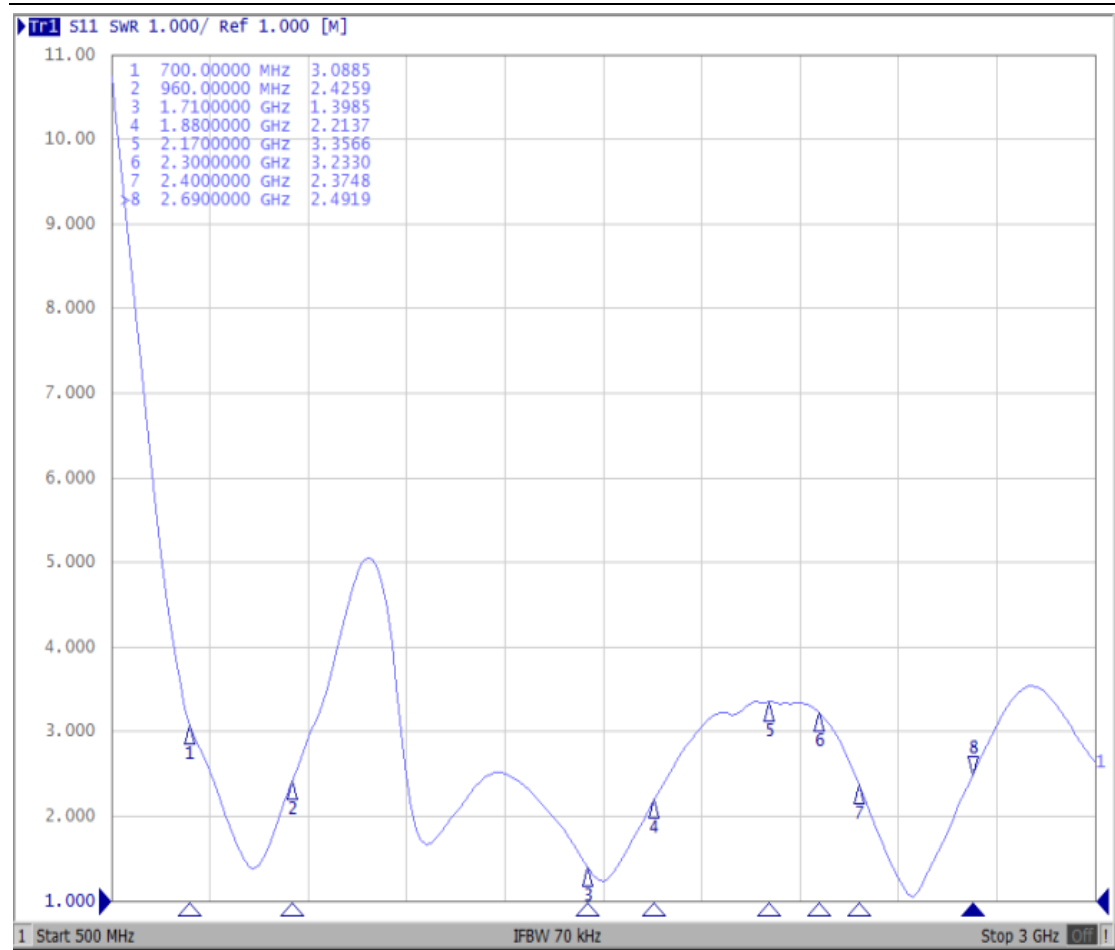
740	-11.22	-7.52
750	-10.78	-7.11
760	-10.94	-7.79
770	-10.91	-7.64
780	-10.94	-7.84
790	-10.91	-7.67
800	-10.95	-7.67
810	-10.90	-8.09
820	-10.39	-7.31
830	-10.19	-6.70
840	-9.86	-5.91
850	-9.82	-5.83
860	-9.47	-5.57
870	-9.54	-6.04
880	-9.65	-6.73
890	-9.65	-6.87
900	-9.65	-6.83
910	-9.59	-7.21
920	-9.53	-6.95
930	-9.59	-6.80
940	-9.55	-6.35
950	-9.67	-6.47
960	-9.56	-6.01
1710	-7.42	-0.67
1730	-6.97	-0.11
1750	-6.61	0.36
1770	-6.41	0.49
1790	-6.15	0.55
1810	-6.01	0.35
1830	-6.04	0.26
1850	-6.01	0.44
1870	-5.97	0.72
1890	-6.19	0.66
1910	-6.29	0.61
1930	-6.44	0.39
1950	-6.62	0.11
1970	-6.83	-0.17
1990	-6.92	-0.24
2010	-7.13	-0.50
2030	-7.27	-0.73
2050	-7.40	-1.03



2070	-7.42	-1.29
2090	-7.22	-1.13
2110	-7.21	-1.06
2130	-7.13	-0.84
2150	-6.89	-0.62
2170	-6.84	-0.57
2190	-6.81	-0.56
2210	-6.63	-0.36
2230	-6.45	-0.22
2250	-6.37	-0.26
2270	-6.16	0.34
2290	-6.04	0.57
2310	-6.00	0.50
2330	-5.90	0.53
2350	-5.98	0.38
2370	-5.67	0.69
2390	-5.57	0.54
2410	-5.47	0.70
2430	-5.19	1.03
2450	-4.69	1.54
2470	-4.64	1.80
2490	-4.24	2.10
2510	-4.17	2.03
2530	-4.01	2.26
2550	-3.99	2.19
2570	-3.88	2.27
2590	-3.90	2.24
2610	-3.87	2.33
2630	-3.92	2.41
2650	-4.17	2.23
2670	-4.30	2.12
2690	-4.63	1.77

2、 Antenna Return Loss/VSWR

4G antenna

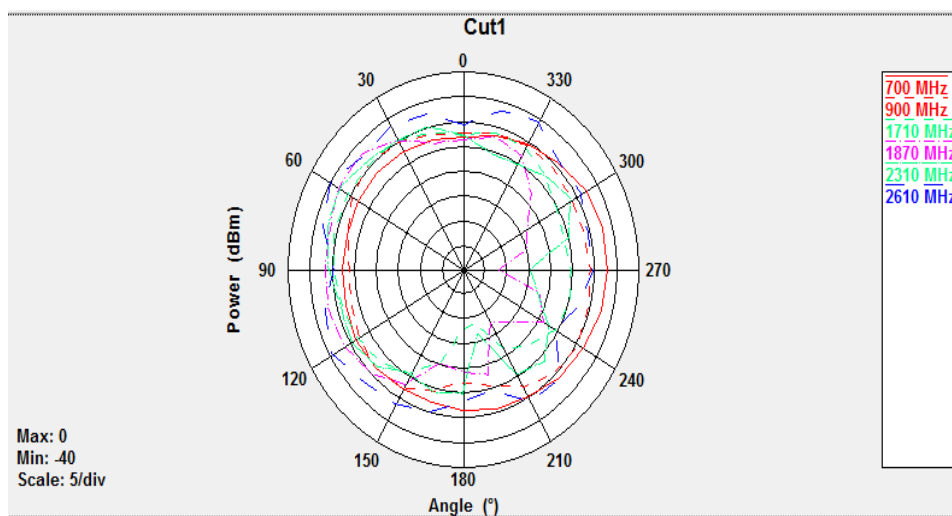


3、 Radiation Pattern

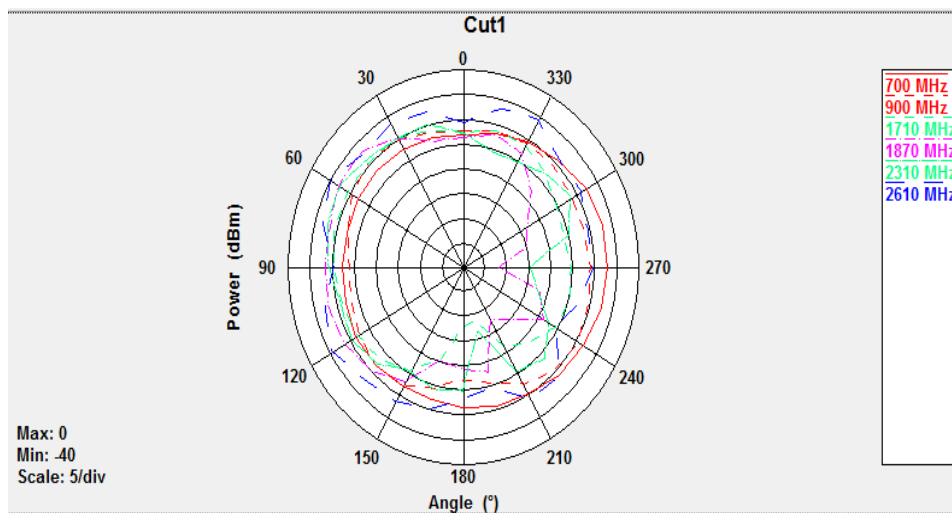
Test lab: ETS OTA chamber

Test date: 2022/02/19

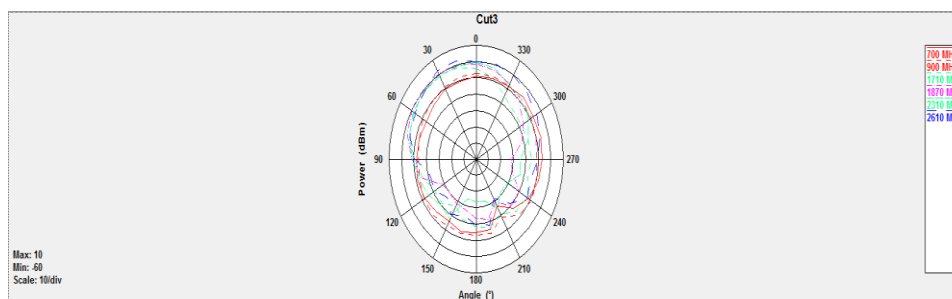
Phi=0



Phi=90



Theta=90



4 Structure drawing

4G antenna

