



AMLF1 Antenna Datasheet

Antenna Model No.: RFFPA251200NNLB001 (option 1)

RFFPA251200NNLB001 (option 2)

Antenna Type: FPC Loop Antenna

Manufacturer: PSA - INPAQ Technology Co., Ltd.

Address: No. 566-1, Gaoshi Rd., Yangmei Dist.,
Taoyuan City 326103 , Taiwan (R.O.C.)

Revision	Date	Note
1.0	6/30/2025	Initial Release
1.1	7/1/2025	Remove VSWR, update Peak Gain Tables, and add View of Antenna and 2D Radiation Patterns



- **Antenna Efficiency and Peak Gain**

Option1

Wi-Fi 2.4 GHz

Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	28.80	-0.36
2410	29.13	-0.39
2412	29.41	-0.45
2420	30.18	-0.29
2430	31.26	-0.33
2440	31.37	-0.13
2442	30.95	-0.20
2450	30.76	-0.18
2460	30.85	-0.26
2462	31.02	-0.29
2470	31.91	0.07
2480	31.67	-0.18
2490	31.16	-0.25
2500	30.69	-0.49

Wi-Fi 5GHz

Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
5150	30.87	1.15
5200	31.55	1.33
5250	30.06	0.83
5300	30.40	0.66
5350	31.15	0.57
5400	30.51	0.31
5450	28.21	-0.41
5500	26.54	-0.84
5550	28.63	0.42
5600	29.73	0.46
5650	29.39	0.56
5700	28.06	0.21
5750	28.05	0.41
5785	33.25	0.03
5800	32.04	-0.09
5850	31.72	0.20



Option2

Wi-Fi 2.4 GHz

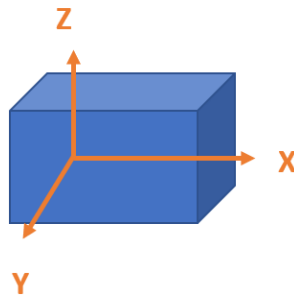
Frequency(MHz)	Efficiency (%)	Peak gain (dBi)
2400	31.50	-0.51
2410	31.65	-0.59
2412	32.13	-0.42
2420	32.75	-0.54
2430	33.71	-0.36
2440	33.33	-0.25
2442	33.13	-0.32
2450	33.29	-0.20
2460	33.25	-0.31
2462	33.40	-0.26
2470	33.61	-0.47
2480	33.26	-0.54
2490	33.33	-0.64
2500	33.17	-0.65

Wi-Fi 5GHz

Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
5150	33.88	0.04
5200	34.69	0.44
5250	34.93	0.30
5300	32.95	0.00
5350	31.67	-0.09
5400	32.25	-0.31
5450	33.09	-0.14
5500	32.52	-0.20
5550	32.30	-0.18
5600	32.46	0.03
5650	33.23	0.11
5700	33.88	0.50
5750	34.65	0.79
5785	33.86	0.68
5800	33.92	0.65
5850	34.25	0.63



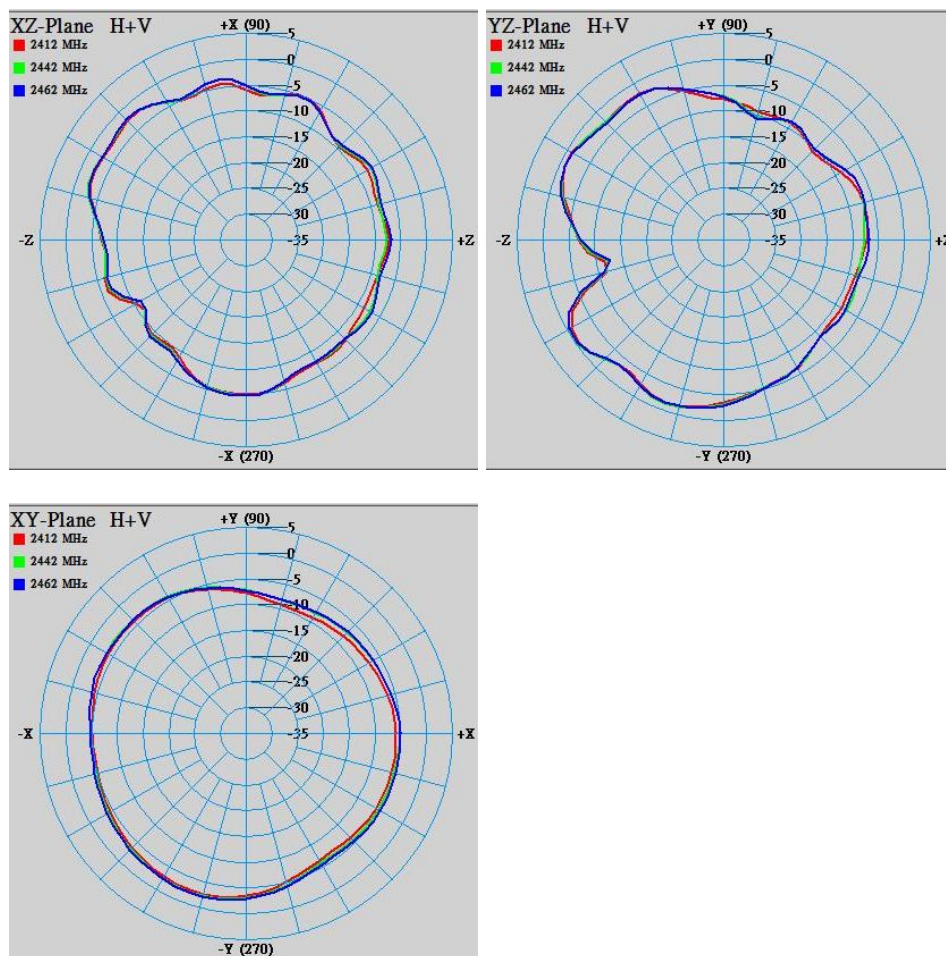
- View of antenna



- 2D Radiation Patterns

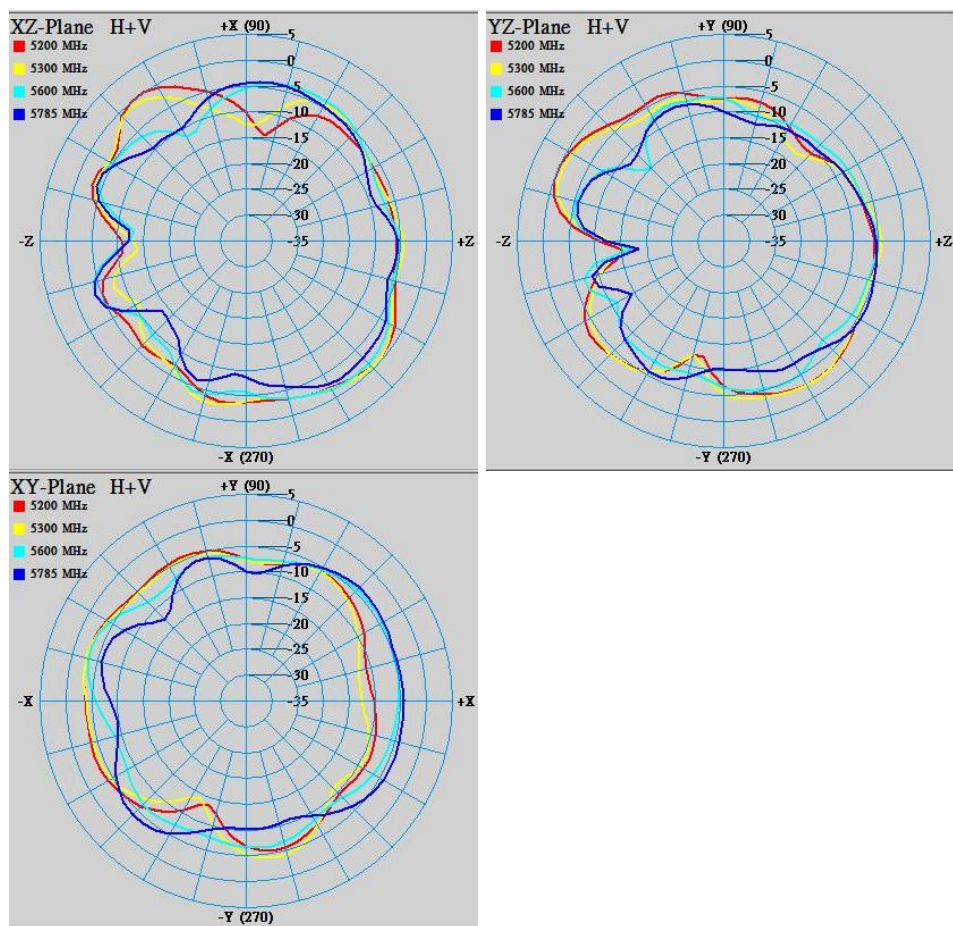
Option1

Wi-Fi 2.4 GHz



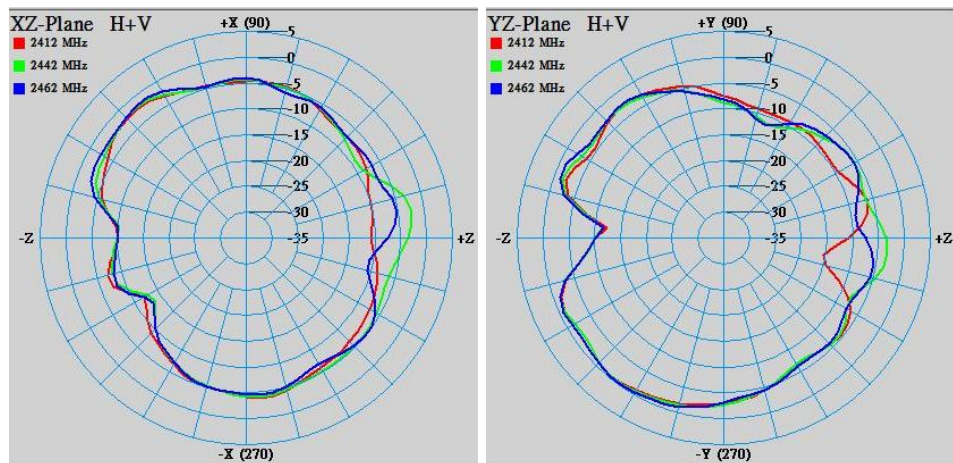


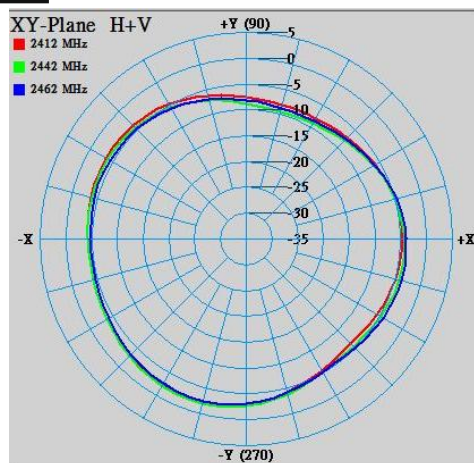
Wi-Fi 5GHz



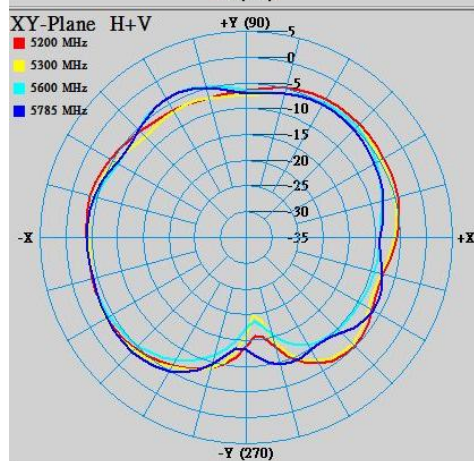
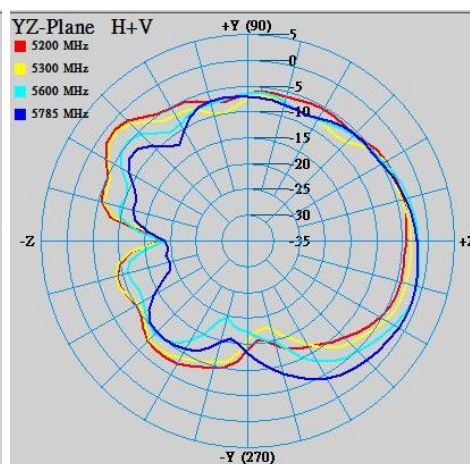
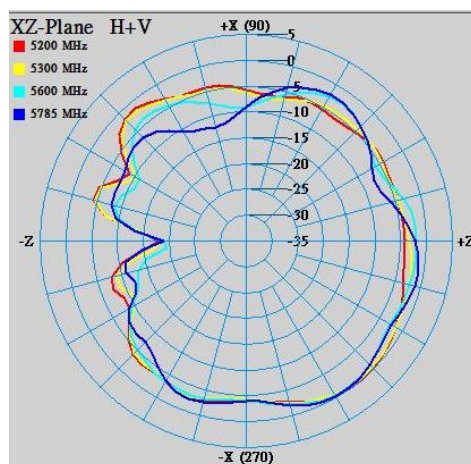
Option2

Wi-Fi 2.4 GHz





Wi-Fi 5GHz



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