

佳邦科技股份有限公司

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WE CONNECT	WE PROTECT
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Contents

Content Details

- Revised History
- Requirement of Antenna Design and Measurement
- Antenna Placement & Environment
- VSWR
- 3D Radiation Pattern Results
- Results Summary (peak gain, efficiency)
- Conclusion

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Revision History

Released Date	Version	Record		
Jan. 9, 2025	0.0	Initial Release		
Jan. 17, 2025	0.1	Change feed position		
WOLDEN CON LTN.				





Requirements of Antenna Design and Measurement

Requirements of Antenna Design

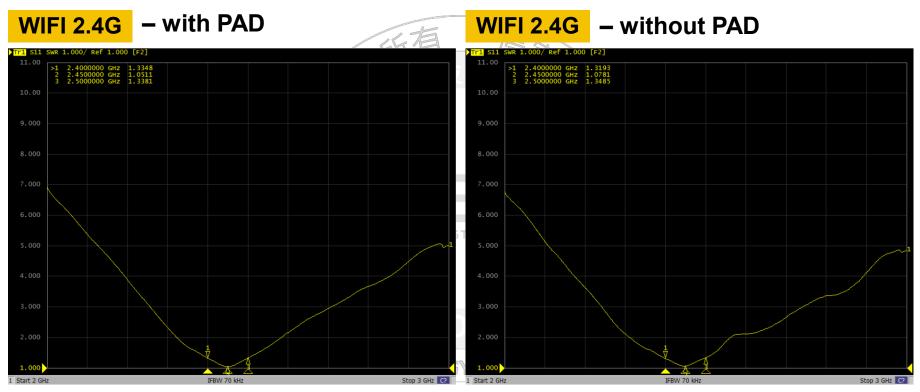
RF Function	Frequency Band	Туре	Clearance Area Size(mm)					
WIFI 2.4G	2400-2500	Chip	9.3*7.2					
Requirements of Measurement								
Test Ite	m	Specification						
Return lo	oss							
Isolatic	n							
Peak ga	ain							
Efficien	-							
			E .					











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Results Summary

Peak gain & Efficiency – with PAD Peak gain & Efficiency – without PAD								
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)		Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	4.30	32.09	-4.94		2400	2.42	40.08	-3.97
2450	4.72	35.85	-4.46		2450	3.02	41.97	-3.77
2500	3.62	34.26	-4.65		2500	1.59	41.21	-3.85
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Conclusion

- The VSWR can meet <2.
- The Efficiency of antenna with PAD can reach > 32%.
- The Efficiency of antenna without PAD can reach >40%.



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