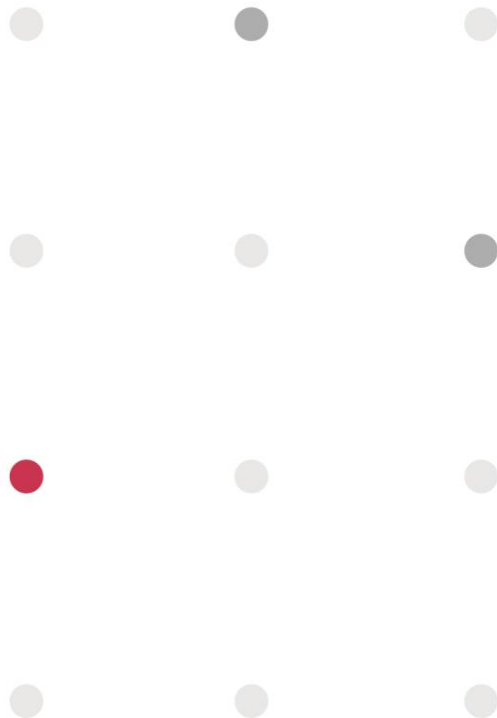


PSA

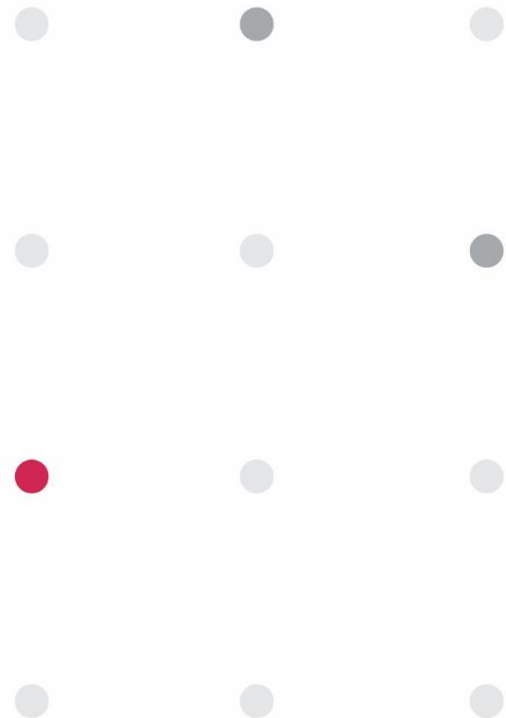
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



N738

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INPAQ Technology Co., Ltd.



Last updated in Jan. 17,2025

Version:0.1

Contents

Content Details

- Revised History
- Requirement of Antenna Design and Measurement
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- Conclusion



Revision History

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

Requirements of Antenna Design and Measurement

Requirements of Antenna Design

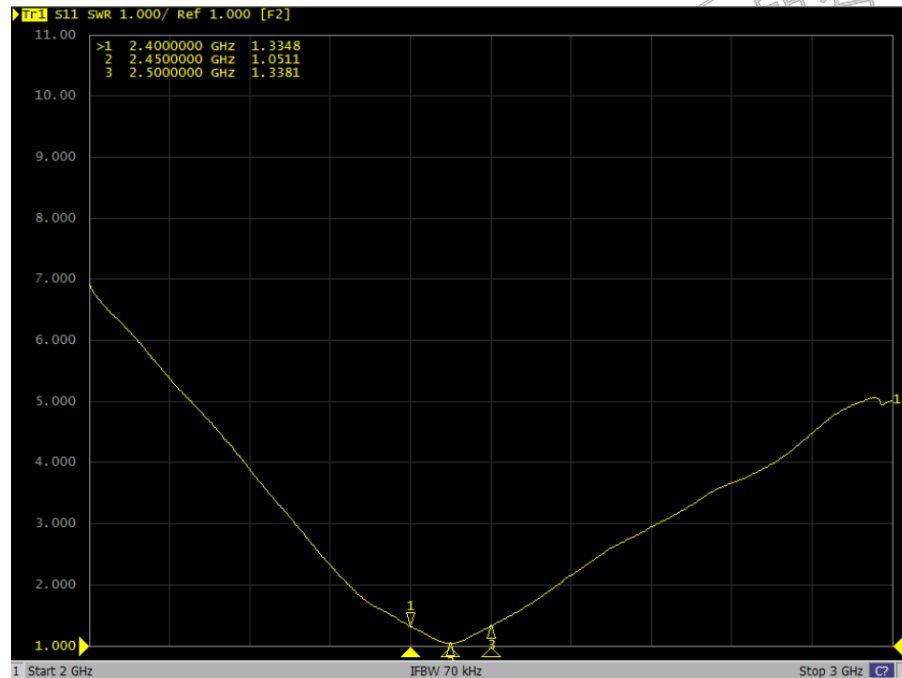
RF Function	Frequency Band	Type	Clearance Area Size(mm)
WIFI 2.4G	2400-2500	Chip	9.3*7.2

Requirements of Measurement

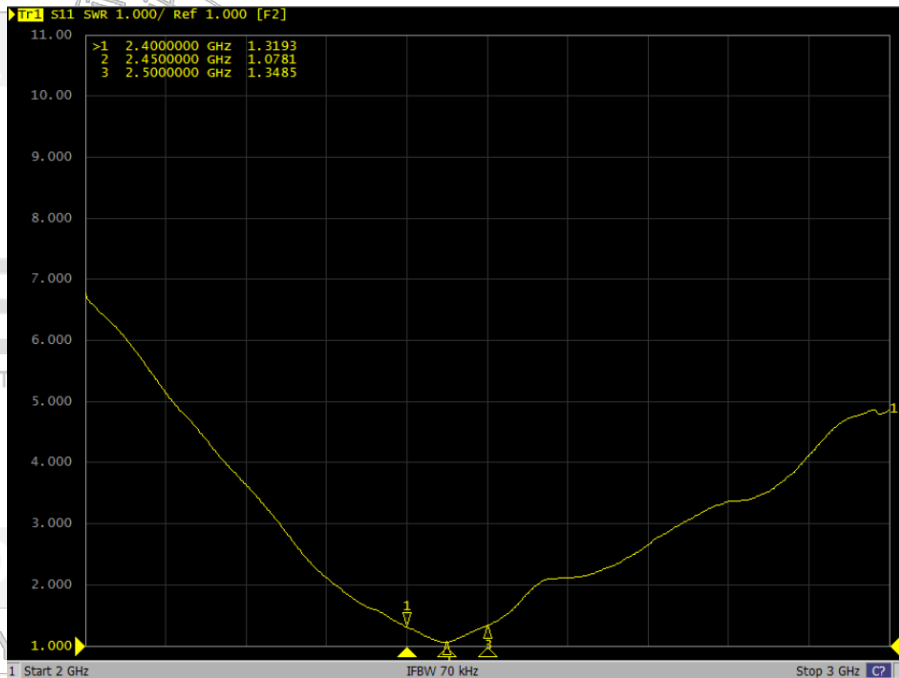
Test Item	Specification
Return loss	
Isolation	
Peak gain	
Efficiency	

VSWR

WIFI 2.4G – with PAD



WIFI 2.4G – without PAD



Results Summary

Peak gain & Efficiency – with PAD

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	4.30	32.09	-4.94
2450	4.72	35.85	-4.46
2500	3.62	34.26	-4.65

Peak gain & Efficiency – without PAD

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Efficiency (dB)
2400	2.42	40.08	-3.97
2450	3.02	41.97	-3.77
2500	1.59	41.21	-3.85



Conclusion

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

