PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

Version 0.1

N727

Presented by YiAn Nien, RFRD Department

INPAQ Technology Co., Ltd.

Last updated in 11.02, 2023

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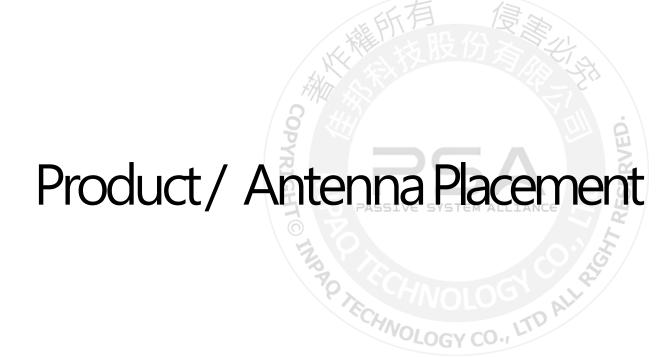
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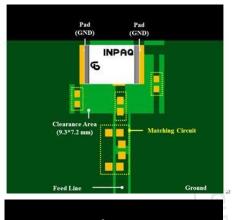


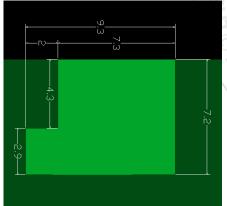
Revised History

Released Date	Version	Record
Sep. 01 th , 2023	0.0	Initial report
Nov. 02 th , 2023	0.1	Finetune



Product / Antenna Overview

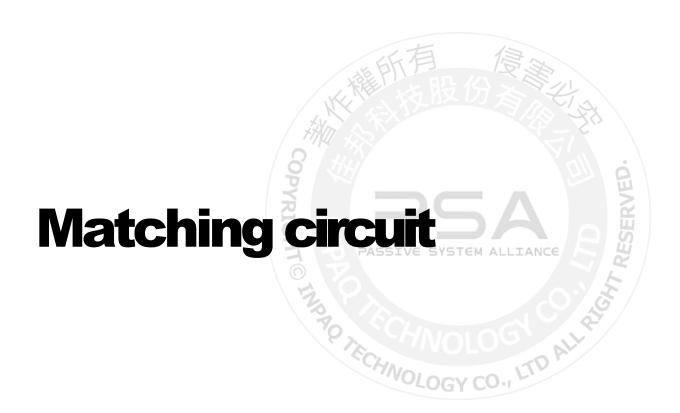




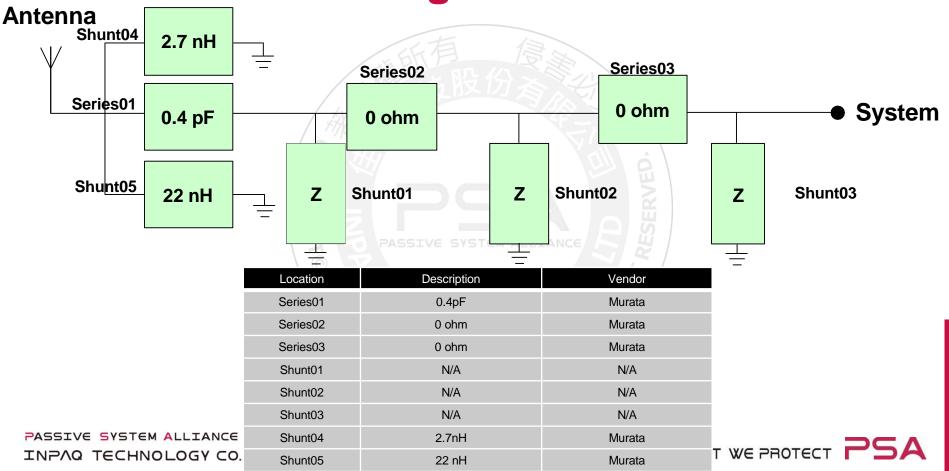
THE REAL PROPERTY OF THE PARTY	\	
Frequency	2400-2500 5150-5850	
Ant. Type	PIFA	
Model Name	N727	
Brand Name	MIO	
Mfr. Address	INPAQ Technology Co., No. 11, Keyi St., Jhunan Township, Miaoli County350402 , Taiwan (R.O.C.)	

PASSIVE SYSTEM ALLIANCE INPAQ TECHNOLOGY CO., LTD.





Fine Tuned Matching

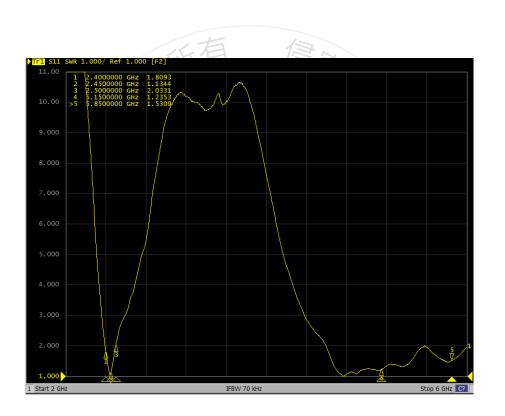




Results



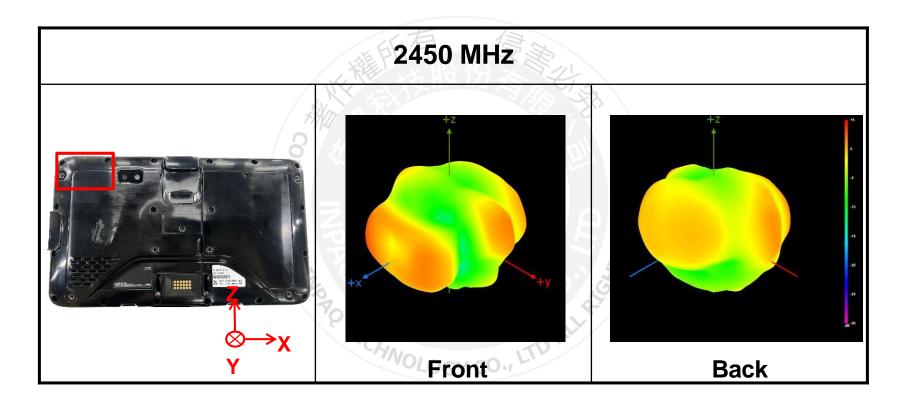
VSWR



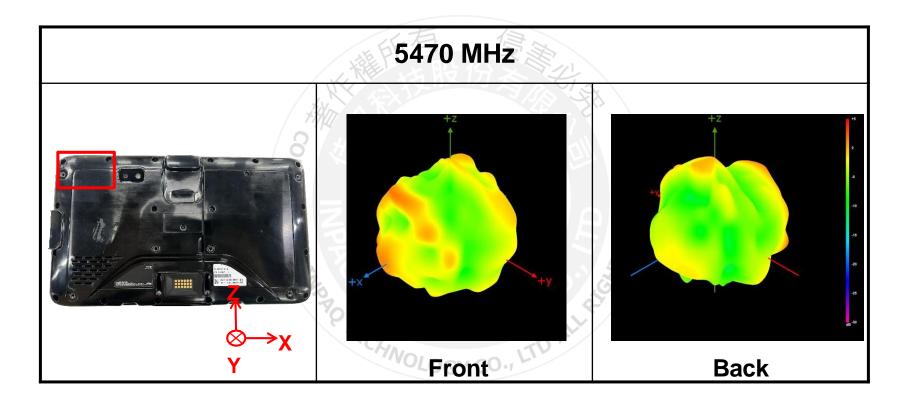
Efficiency and Peak Gain

Fine Tuned				
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)		
2400	0.27	32.19		
2450	0.32	40.09		
2500	0.44	33.89		
5150	-0.74	26.11		
5470	-0.30	20.51		
5850	0.53	22.93		

3D Radiation Pattern



3D Radiation Pattern





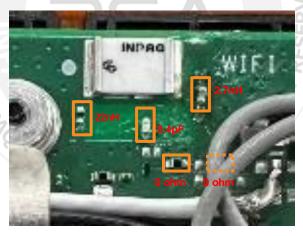
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Conclusions

- 1. The chip antenna efficiency is about 20-40 %.
- 2. The Peak Gain of the chip antenna is about -0.74to 0.53 dBi.
- 3. Please follow the matching circuit shown below.



THANK YOU FOR YOUR ATTENTION

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