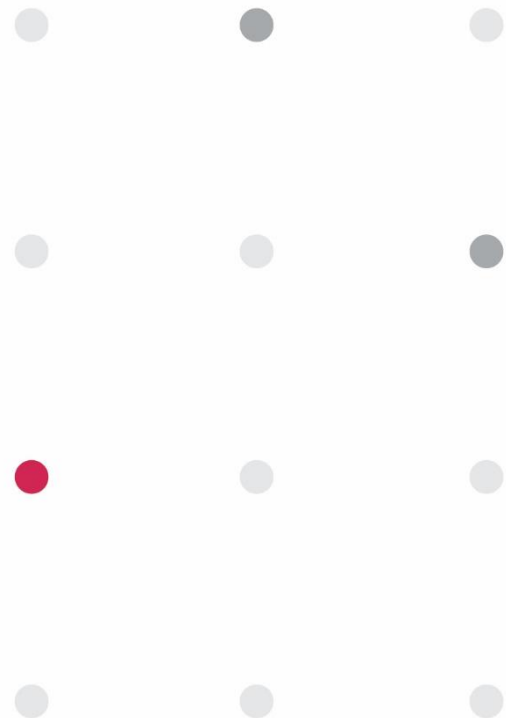


PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



Presented by : YiAn Nien

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Approved by : LeeTing Hsieh

INPAQ Technology Co., Ltd.

Last updated in Feb 22.2022

Version :V0.0

Customer : 神達

Project :Charo

Product : Chip Antenna ACA-2012

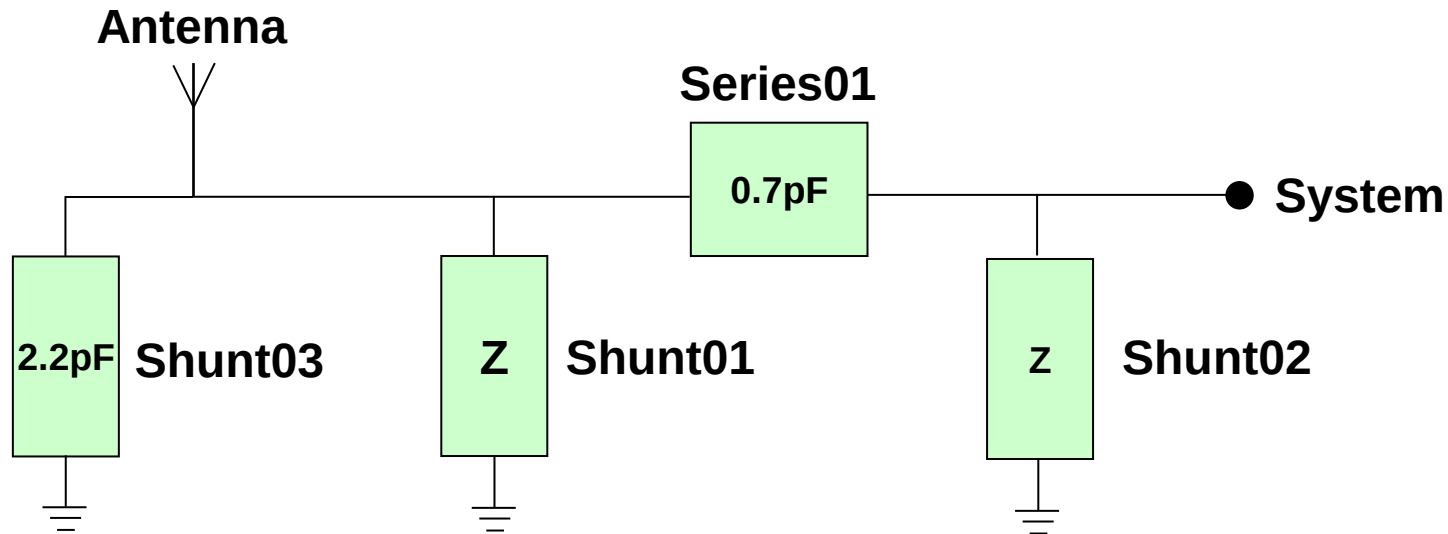
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Revised History

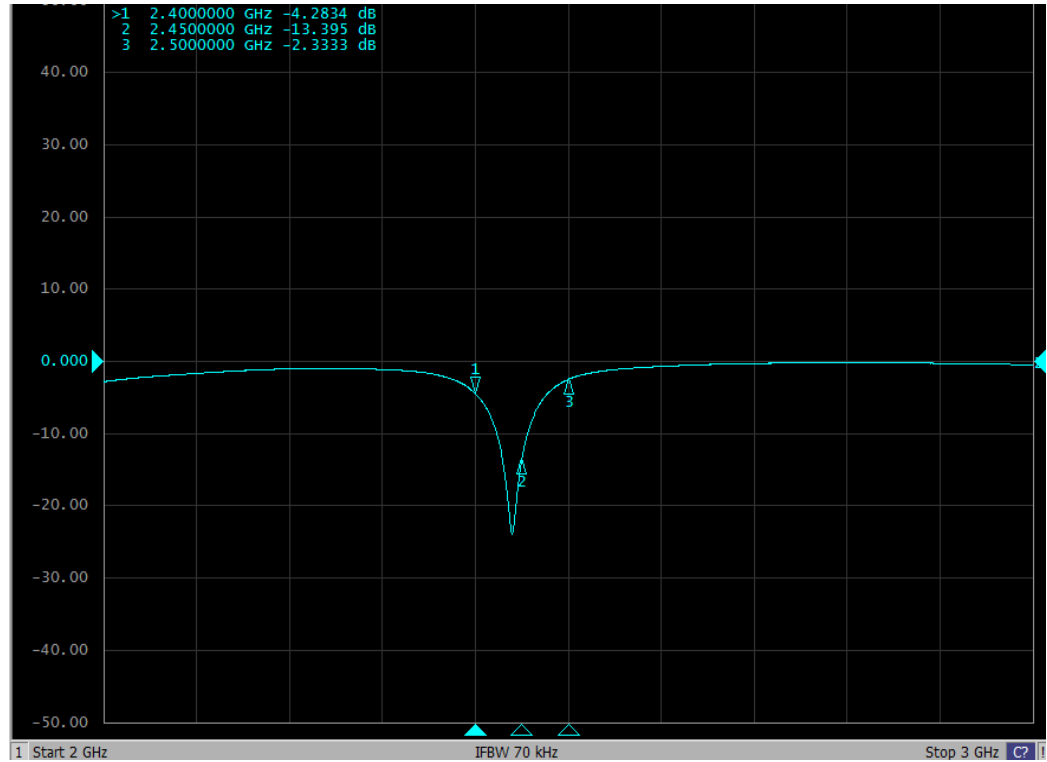
Released Date	Version	Record
Feb. 22 th , 2022	0.0	Initial report

Match circuit



Location	Description	Vendor
Series01	0.7pF	Murata
Shunt01	N/A	N/A
Shunt02	N/A	N/A
Shunt03	2.2pF	Murata

Antenna S11



Efficiency & Peak Gain

	ACA-2012		
Frequency (MHz)	Peak Gain(dBi)	Average Gain(dB)	Efficiency(%)
2400	-4.69	-12.34	5.83
2450	-6.37	-11.27	7.45
2500	-10.59	-14.41	3.62

Conclusions

- The chip antenna efficiency is about 3.5% to 7.5%.
- The peak gain are about -10.6 to -4.6dBi.
- The efficiency is under 10% because of the metal environment.