

APPROVAL SHEET

2400~2500 MHz Working Frequency

P/N: RFPCA521010EMABY01

Antenna Type : Dipole

Customer : _____
Approval No. : _____
Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

品名：RFPCA521010EMABY01

History List

[illegible]

1.Explanation of part number :

RF	PCA	5210	10	E	M	A	B	Y	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 5210 Length 52.0 mm, Width 10.0mm	2 digits for cable length e.g.: 10 Cable Length 10.0 cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band M: LTE+Sub-6G+5G LTE : 617~960/1710~2690MHz Sub-6G : 3300~4200MHz 5G : 5150~7150MHz N79 : 4.4~5GHz N: NFC S: UWB(6~7GHz) T:LTE band M:LTE+Sub-6G+5G	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178 Y: Ø0.81 Low Loss	01~99 series number

2.Electrical Specification :

Item	Specification
Frequency Range	2400 ~ 2500 MHz
Impedance	50 Ohm Nominal
VSWR	2.0 (Max)
Peak Gain	3.37 dBi
Radiation	Omni-directional
Polarization	Linear Vertical
Admitted Power	1W
Operation Temperature	-20℃ ~ +65℃

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 詹惠雯

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

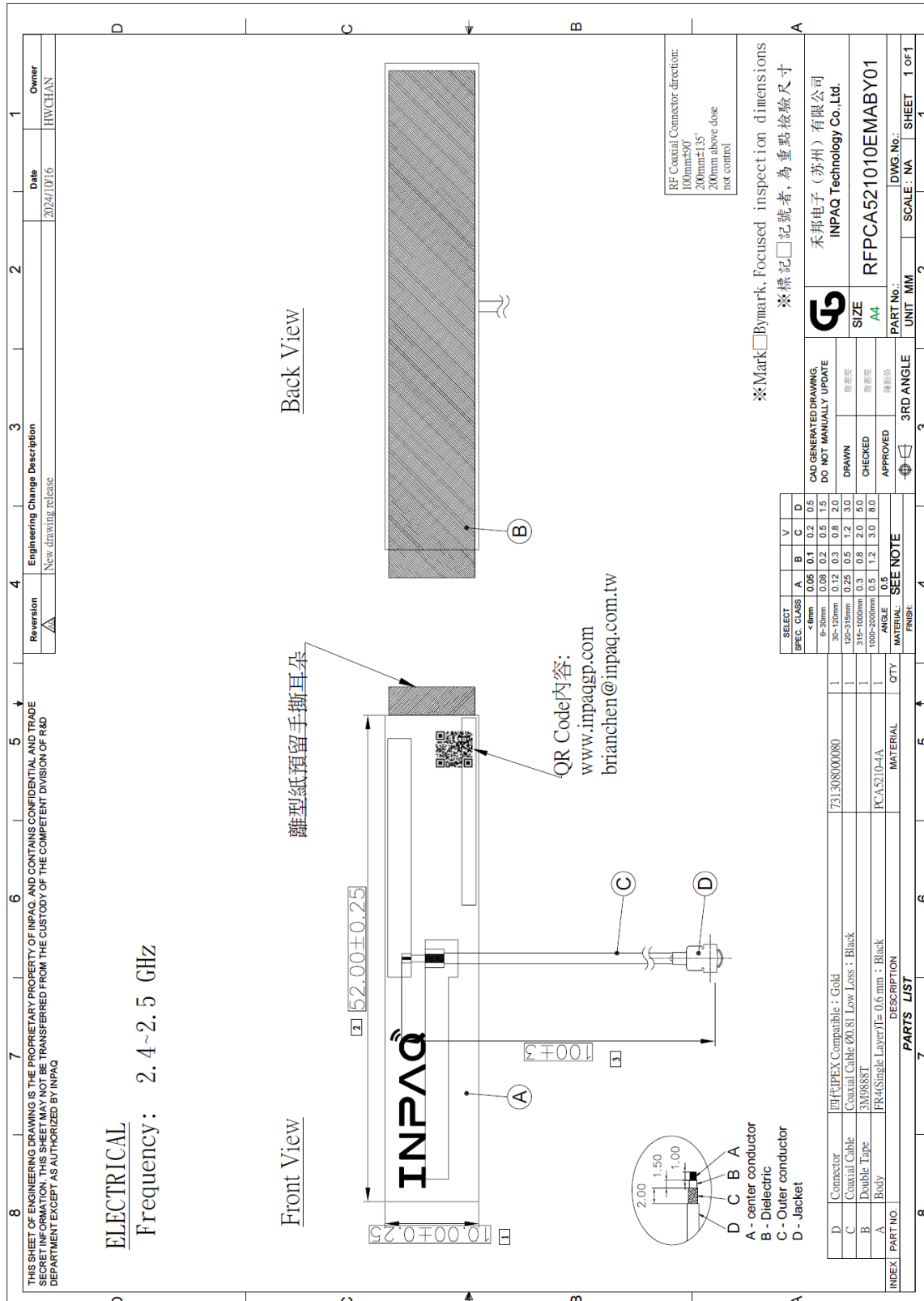
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3. Antenna Drawing :



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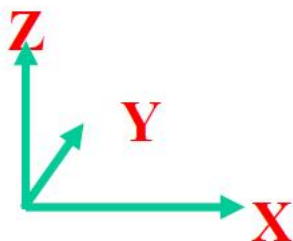
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Test Report

■ ELECTRICAL CHARACTERISTICS



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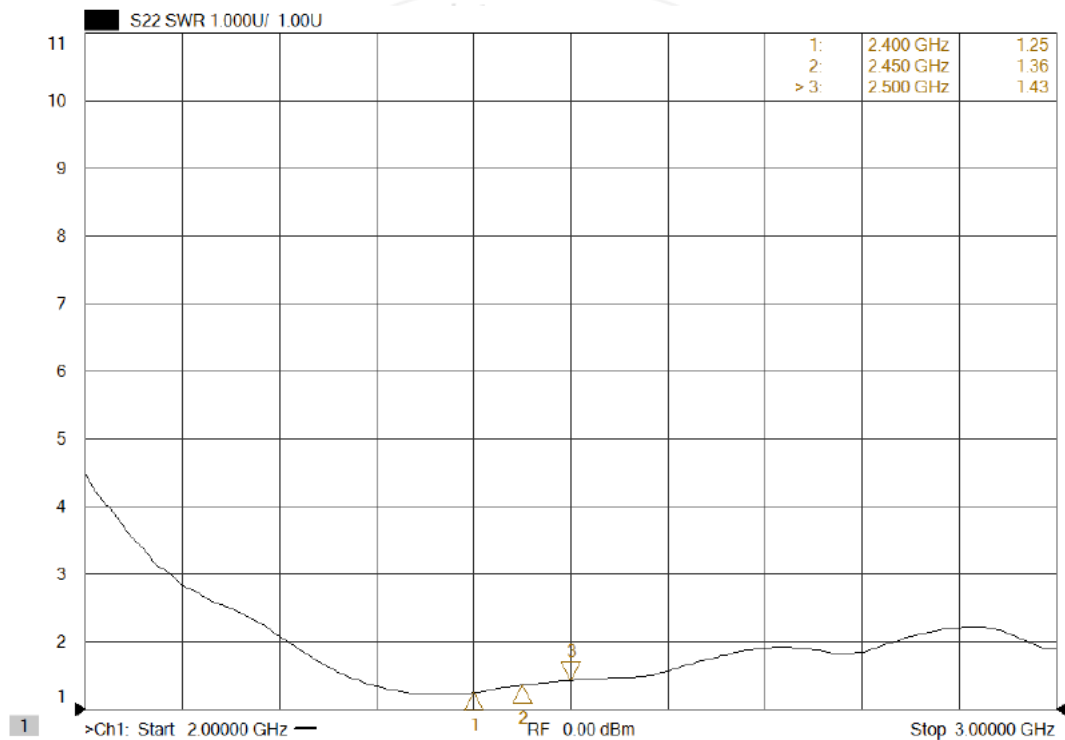
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ELECTRICAL CHARACTERISTICS

VSWR



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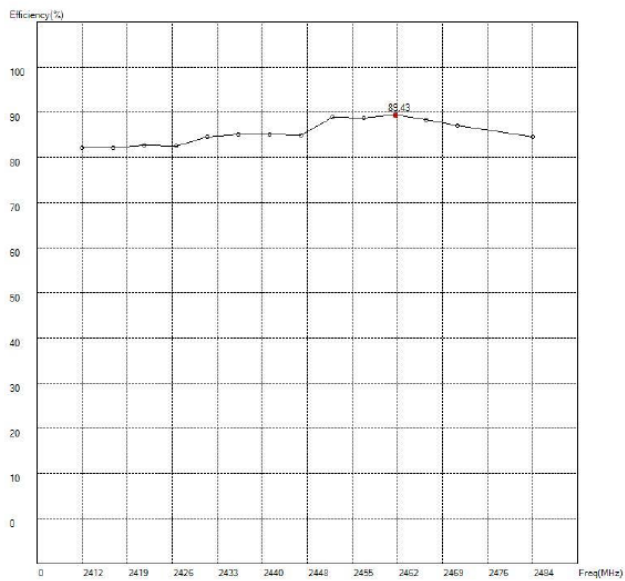
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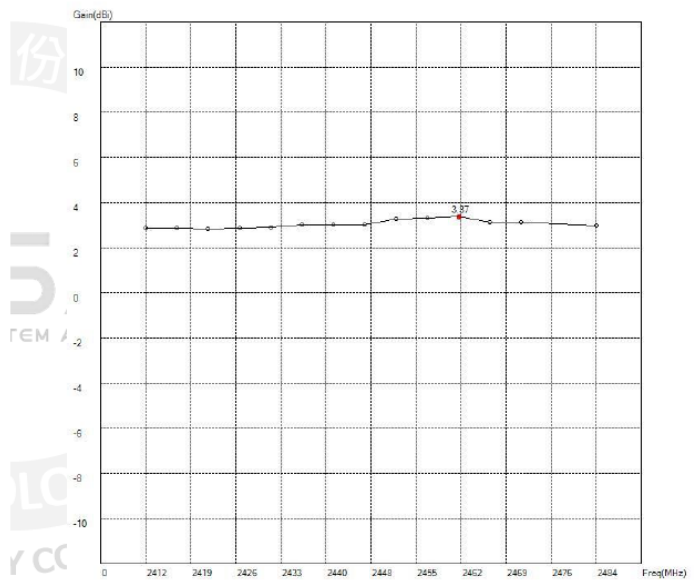
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Antenna Efficiency & Peak Gain

2400-2500MHz



Maximum Efficiency at 2462 MHz : 89.43%



Peak Gain at 2462 MHz : 3.37dBi

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Antenna Efficiency and Peak Gain

CH.	Freq (MHz)	Gain (dBi)	Efficiency (%)
1	2412	2.87	82.15
2	2417	2.87	82.20
3	2422	2.85	82.78
4	2427	2.87	82.48
5	2432	2.90	84.46
6	2437	3.02	85.15
7	2442	3.03	85.02
8	2447	3.01	84.82
9	2452	3.26	88.87
10	2457	3.30	88.73
11	2462	3.37	89.43
12	2467	3.13	88.34
13	2472	3.14	87.17
14	2484	2.97	84.52

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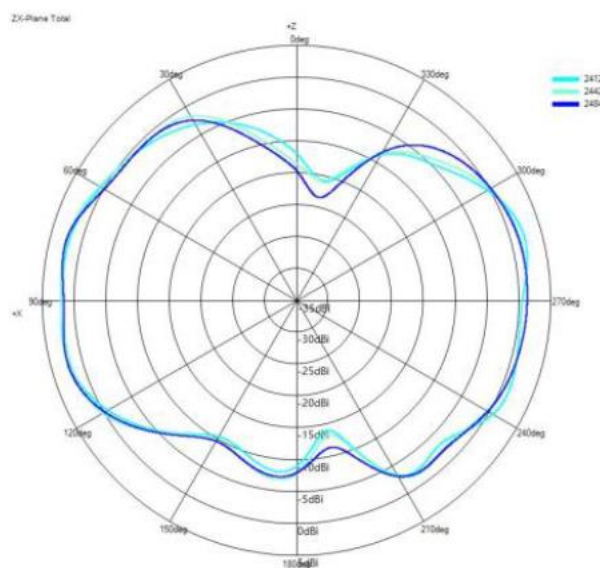
RADIATION PATTERN

2400-2500MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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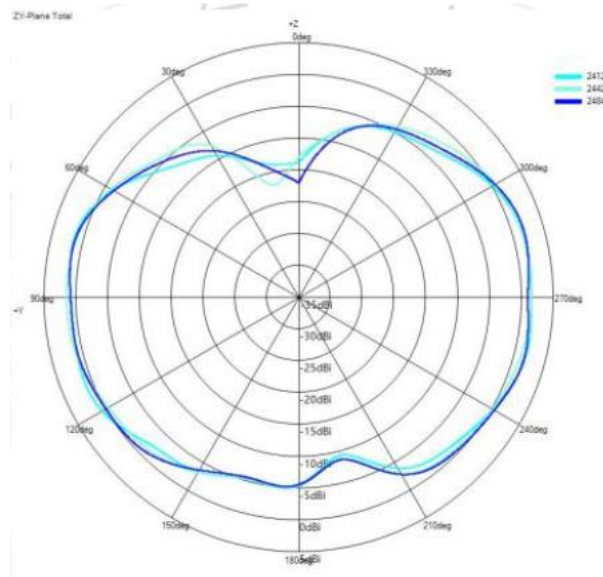
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Y-Z Plane

Phi=90.00deg

Gain . dB



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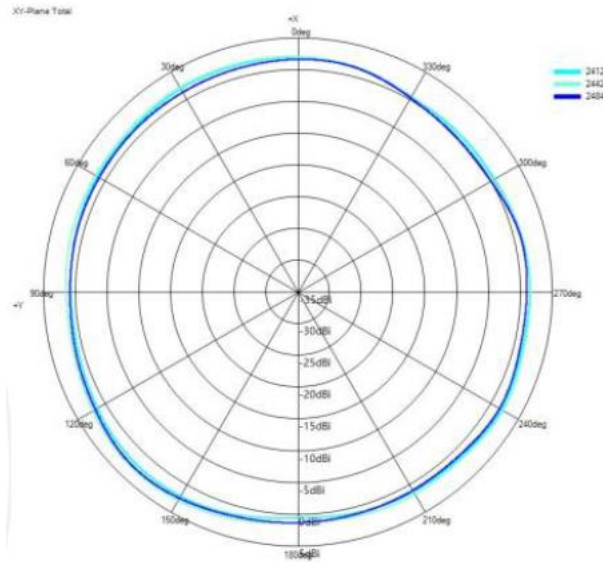
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X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2412	2.31	-1.42	1.86	-1.54	2.20	1.41
2442	2.51	-1.26	1.71	-1.35	3.03	1.79
2484	2.53	-1.31	1.89	-1.40	2.78	1.32

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