

APPROVAL SHEET

2400~2500 MHz Working Frequency

P/N: RFPCA501010EMABY01

Antenna Type : Monopole

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

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

[illegible]

1.Explanation of part number :

RF	PCA	5010	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.: 5010 Length 50.0 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	3.12 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

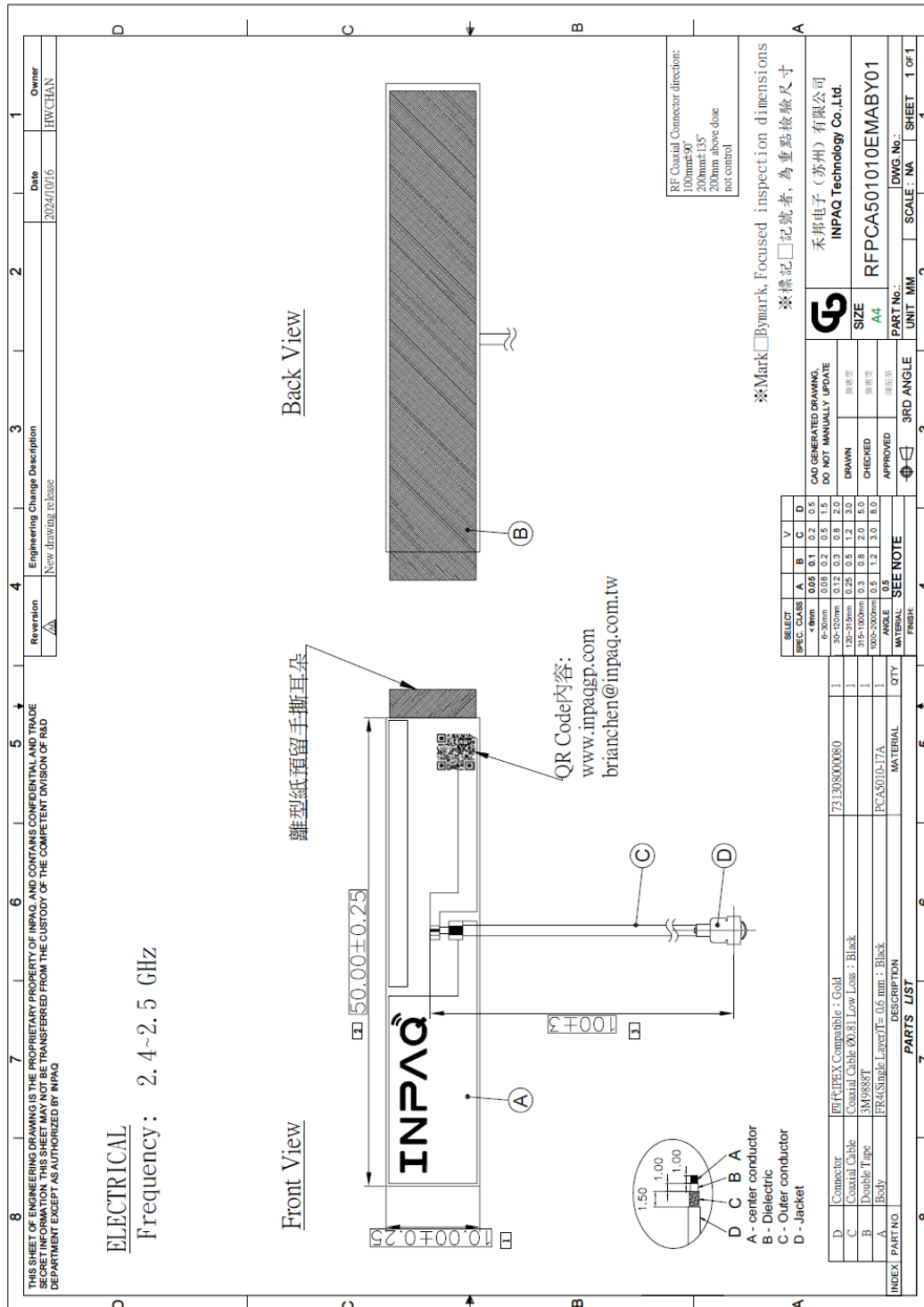
APPROVED BY : 陳振榮

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A0

3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
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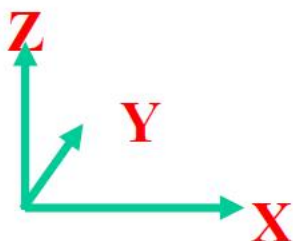
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SPEC	REV.
A0	

Test Report

■ ELECTRICAL CHARACTERISTICS



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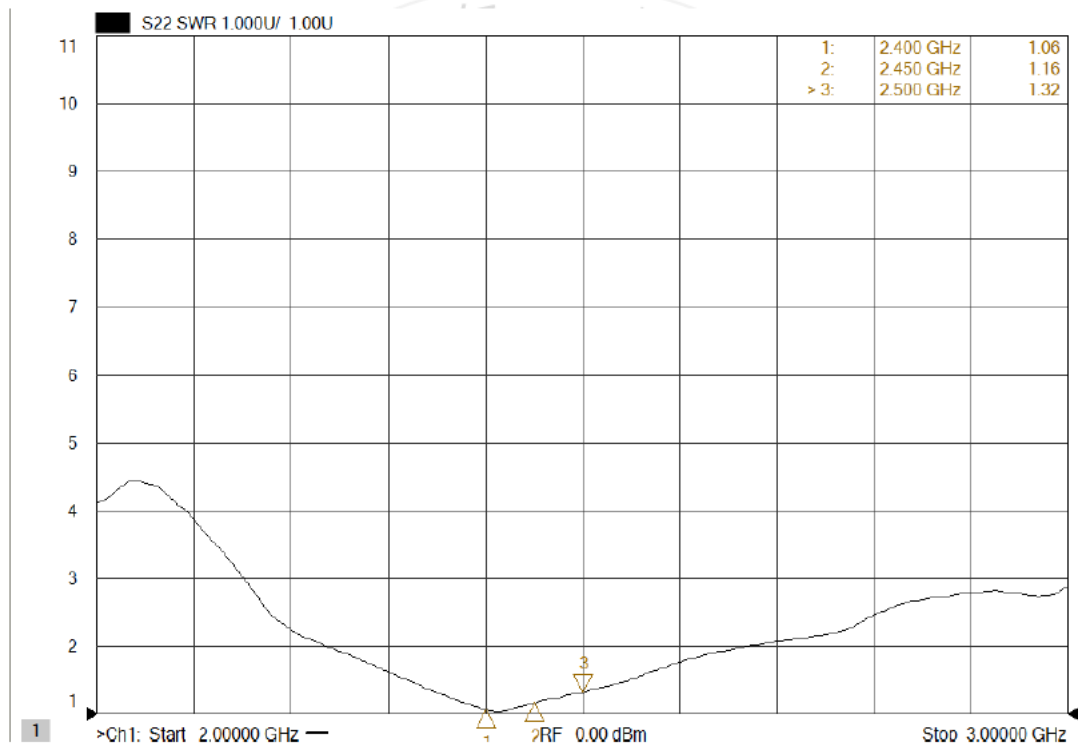
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ELECTRICAL CHARACTERISTICS

VSWR



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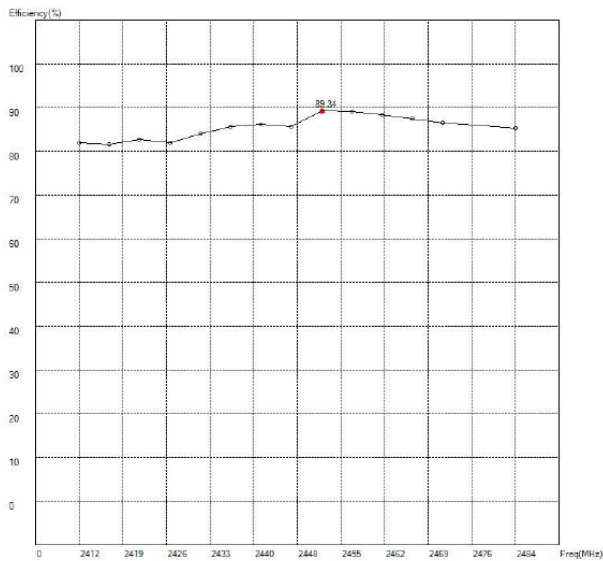
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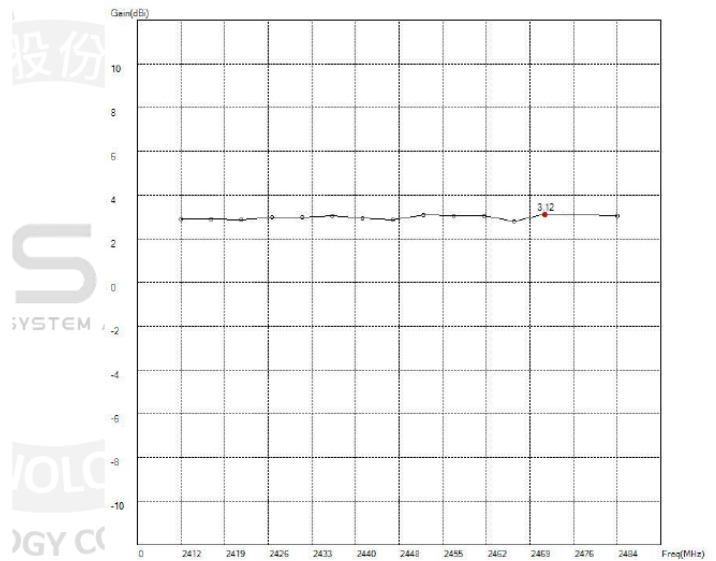
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Antenna Efficiency & Peak Gain

2400-2500MHz



Maximum Efficiency at 2452 MHz : 89.34%



Peak Gain at 2472 MHz : 3.12dBi

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Antenna Efficiency and Peak Gain

CH.	Freq(MHz)	Gain(dBi)	Efficiency(%)
1	2412	2.91	81.94
2	2417	2.92	81.70
3	2422	2.88	82.77
4	2427	2.98	81.97
5	2432	3.00	84.02
6	2437	3.06	85.65
7	2442	2.96	86.10
8	2447	2.88	85.63
9	2452	3.09	89.34
10	2457	3.05	89.00
11	2462	3.07	88.41
12	2467	2.80	87.41
13	2472	3.12	86.51
14	2484	3.05	85.26

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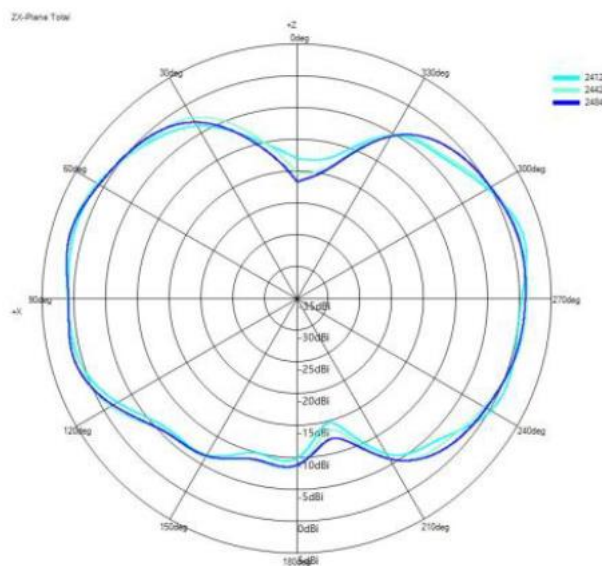
RADIATION PATTERN

2400-2500MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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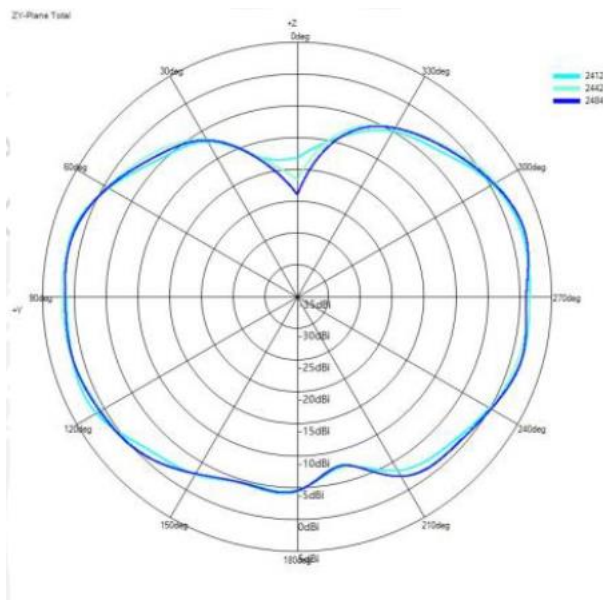
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Y-Z Plane

Phi=90.00deg

Gain . dB



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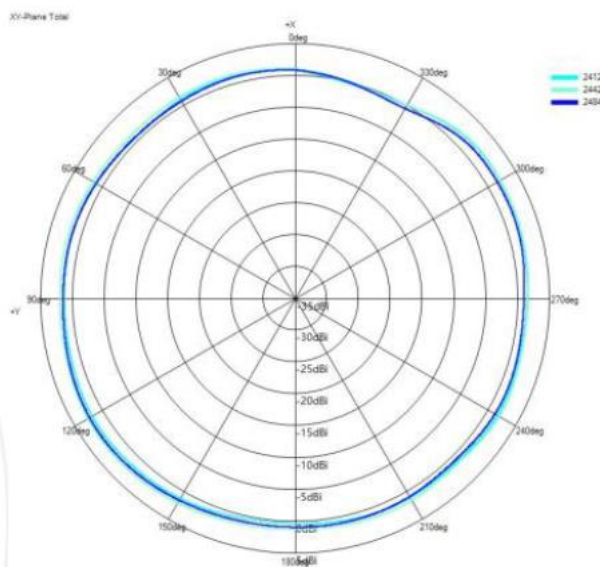
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X-Y Plane

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	1.96	-1.89	1.97	-1.19	2.19	1.26
2442	2.12	-1.63	2.11	-0.99	2.72	1.72
2484	2.10	-1.60	2.22	-1.06	2.42	1.23

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