

APPROVAL SHEET

PCB Antenna

2400~2500 MHz Working Frequency

P/N: RFPCA441010EMABY01

Antenna Type : PIFA

Customer : _____
Approval No. : _____
Issue Date : _____
Production : INPAQ TECHNOLOGY(SUZHOU)
Address : No. 81,Antai Road 1,Xishan Econmic Development Zone, Wuxi
City,Jiangsu Province ,China

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

[illegible]

1.Explanation of part number :

RF	PCA	4410	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.: 4410 Length 44.0 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	3.19 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



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SCALE : N/A

UNIT : mm

DRAWN BY : HW

CHECKED BY : HW

DESIGNED BY : Lang

APPROVED BY : Brian

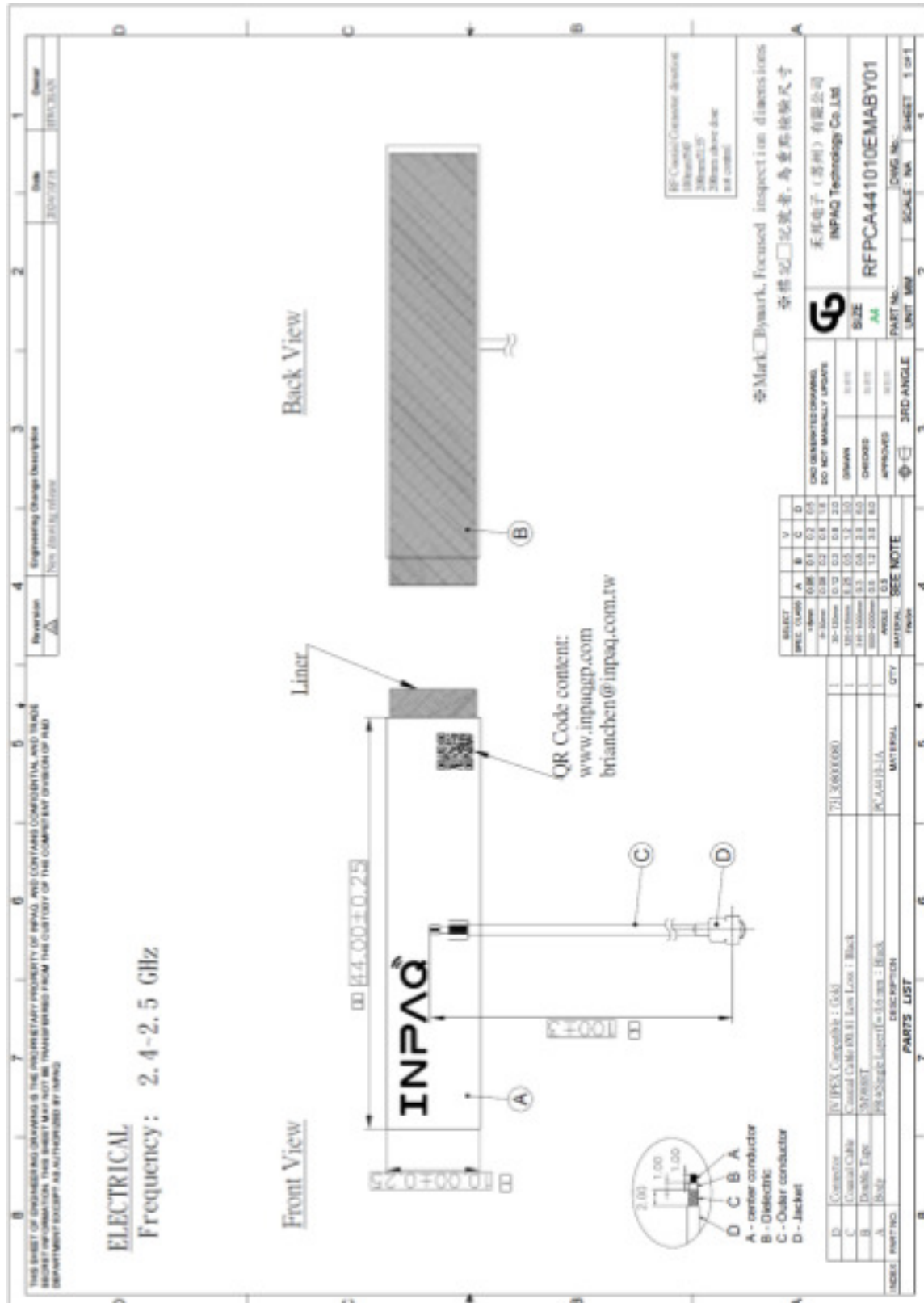
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SPEC REV.
A1

3. Antenna Drawing :



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X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A

SCALE : N/A

UNIT : mm

DRAWN BY : HW

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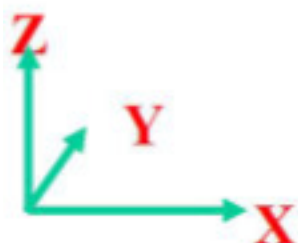
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Test Report

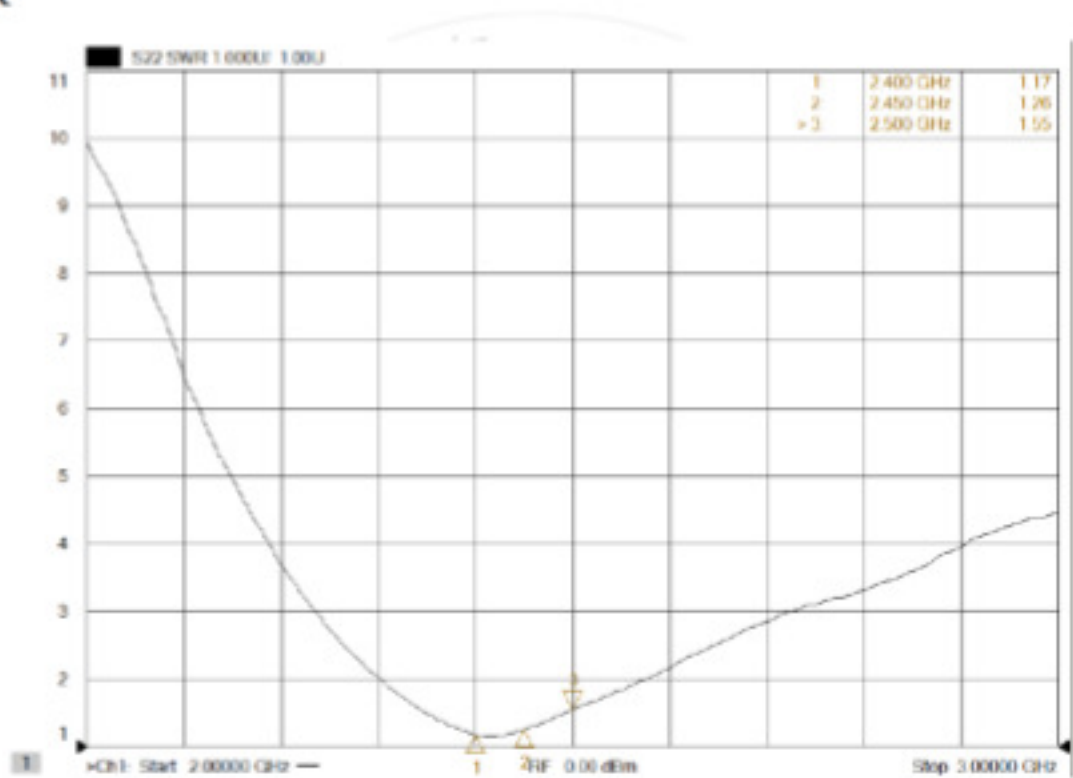
■ ELECTRICAL CHARACTERISTICS



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.		
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ELECTRICAL CHARACTERISTICS

VSWR



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



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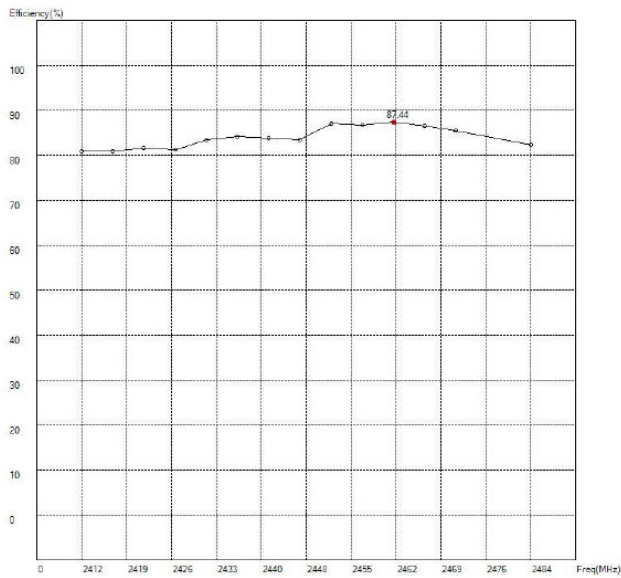
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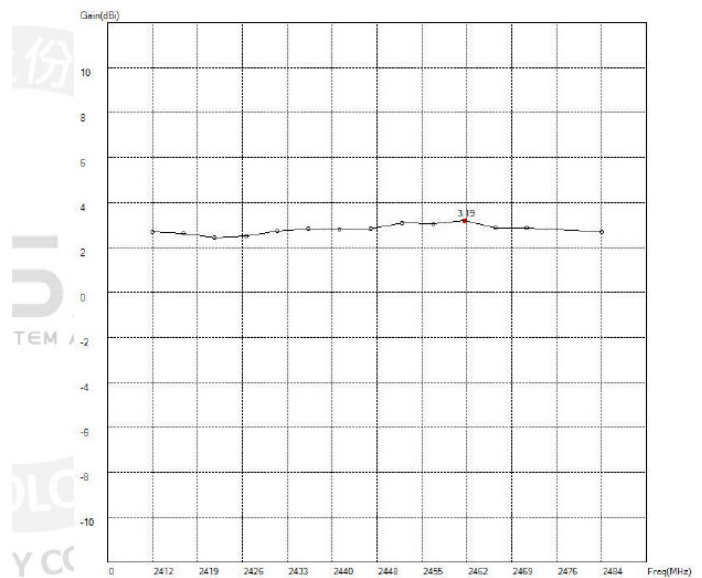
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Antenna Efficiency & Peak Gain

2400-2500MHz



Maximum Efficiency at 2462 MHz : 87.44%



Peak Gain at 2462 MHz : 3.19dBi

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



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DOCUMENT
NO.

SPEC REV.
A1

Antenna Efficiency and Peak Gain

CHL	Freq(MHz)	Gain(dBi)	Efficiency(%)
1	2412	2.69	80.95
2	2417	2.62	80.85
3	2422	2.53	81.69
4	2427	2.51	81.21
5	2432	2.74	83.45
6	2437	2.85	84.14
7	2442	2.80	83.91
8	2447	2.83	83.42
9	2452	3.09	87.03
10	2457	3.04	86.79
11	2462	3.19	87.44
12	2467	2.86	86.54
13	2472	2.88	85.41
14	2484	2.70	82.29

UNLESS OTHER SPECIFIED TOLERANCES ON :
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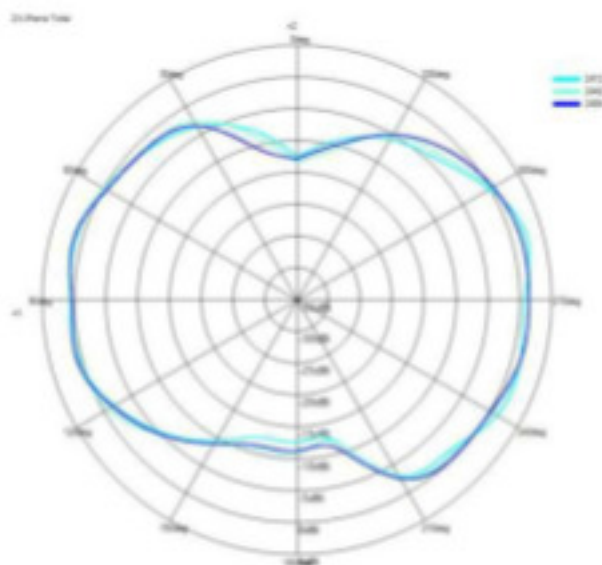
RADIATION PATTERN

2400-2500MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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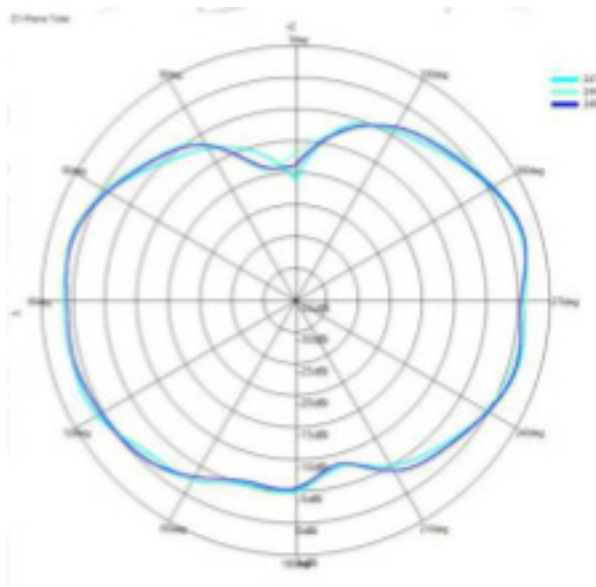
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Y-Z Plane

Phi=90.00deg

Gain . dB



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



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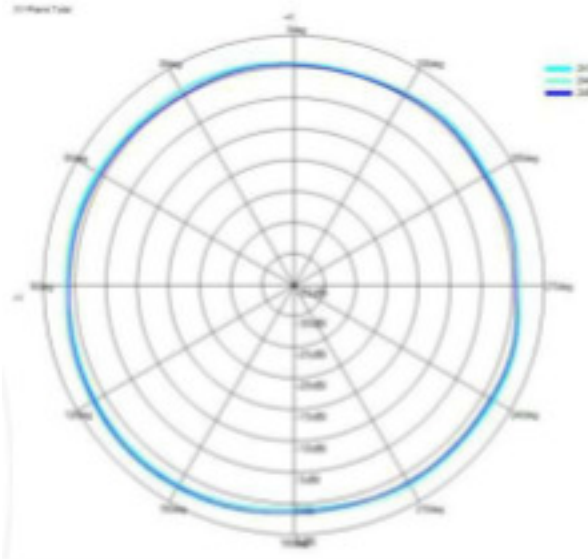
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X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBu]	Average [dBu]	Max Value [dBu]	Average [dBu]	Max Value [dBu]	Average [dBu]
2412	2.48	-1.59	1.95	-1.37	1.95	1.27
2442	1.79	-1.46	2.13	-1.20	2.80	1.65
2484	1.53	-1.50	2.28	-1.34	2.44	1.16

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



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DOCUMENT
NO.

SPEC REV.

A1

4. Package

RFPCA441010EMABY01 Package	PAGE : 1 之 1
	Version : A0
	Revision date : 2024/11/15

Packaged

Figure 1

1pcs product → Shielding bag → 1pcs/bag, 400/bag, ziplock bag needs to be sealed

Figure 2

pearl cotton → outer box → Put the pearl cotton in the outer box

Figure 3

Packaging specifications :

- Put every 1pcs of product into a shielding bag and paste the manufacturing label, and seal it with 400pcs per ziplock bag. As shown in Figure 1
- Put the foam in the outer box (as shown in Figure 2)
- Put the finished product (as shown in Figure 3) into the outer box, put 2000pcs of products in each box, put 1 piece of pearl cotton up and down,
- The filling of mantissa boxes refers to this specification "Y-WI-09-281"

Metal Antenna 370625
RFMTA3706251MAB301 75B1031604 10
-WW0121-031922193619-200 75B1031604 0001

First row: 6-11 digits of model + space + Antenna + space + specification
Second row: specification + space + batch number + space + quantity
The content of the third row of barcodes: specification + batch number + serial number (the same as the last 4 codes of the fourth row) + quantity (unit is K/PCS)
Fourth row: "-" + Printer's number + "-" + Month + Date + Year + Hour + Minute + Second + "-" + "The "Label Number" of the current print + batch number + 4 yards

Label Annotation Ownership (PSA) Huaxin Technology Co., Ltd

Approval:	He Yaohui	Audit:	Zhao Wenbao	Formulate:	Xu Ruonan
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