佳邦科技股份有限公司
INPAQ TECHNOLOGY CO., LTD.

RFPCA441010EMABY01

Specification

Part Series	**PIFA Antenna Type**
	RFPCA441010EMABY01
Version	**V0.1**

Contents

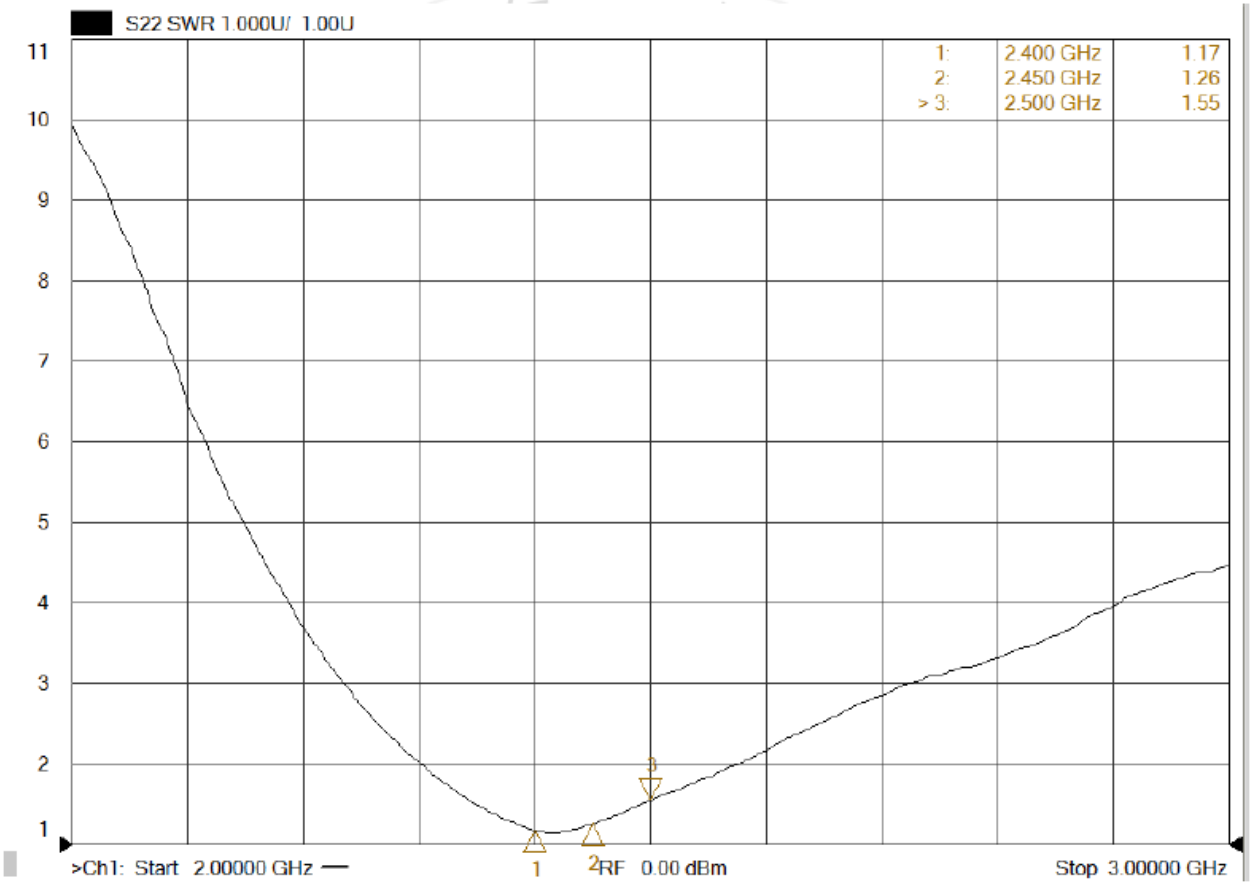
1. Performance

1.1 Antenna performance

Item	Specification
Frequency Range	2.4 ~ 2.5 GHz
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℃

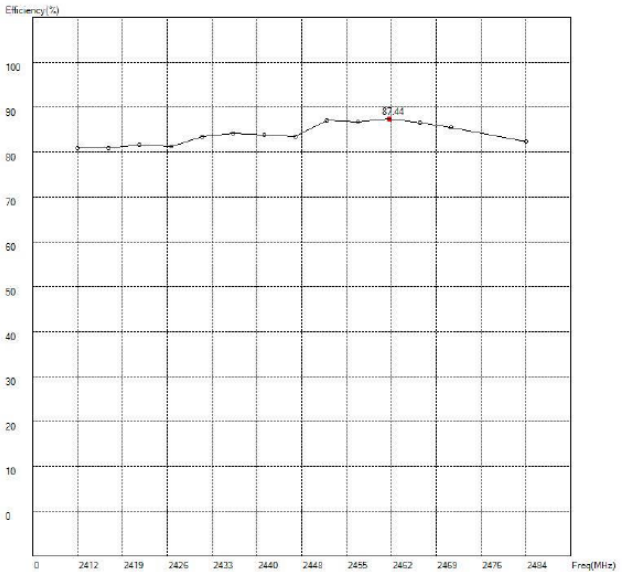
1.2 Antenna S-Parameter and matching factor

VSWR

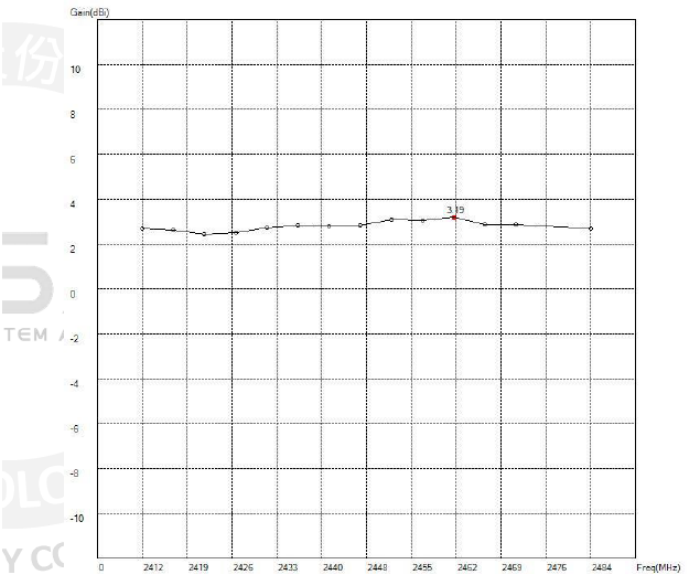


1.3 Antenna Efficiency & Peak Gain

2400-2500MHz



Maximum Efficiency at 2462 MHz : 87.44%



Peak Gain at 2462 MHz : 3.19dBi

Antenna Efficiency and Peak Gain

CH.	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

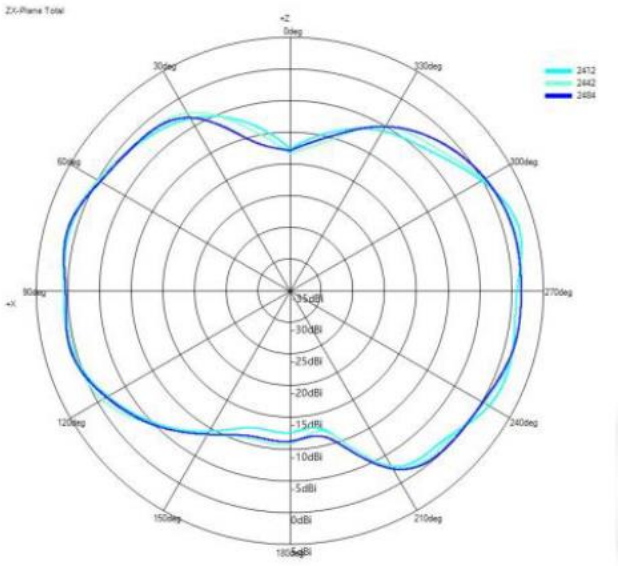
1.4 RADIATION PATTERN

2400-2500MHz

X-Z Plane

Phi=0.00deg

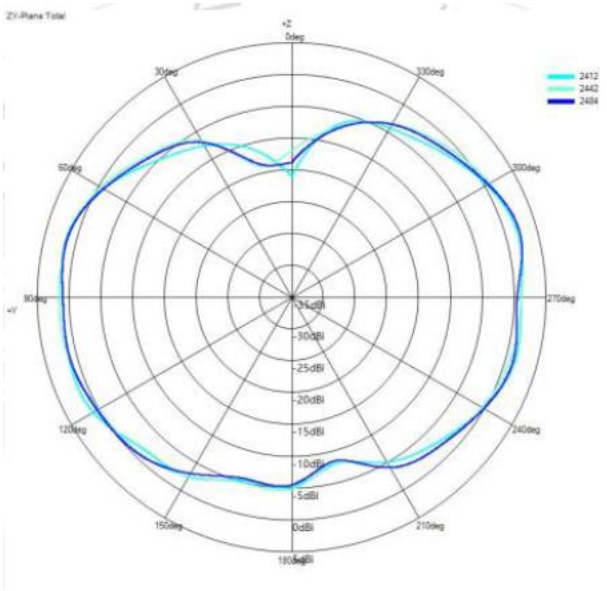
Gain . dB



Y-Z Plane

Phi=90.00deg

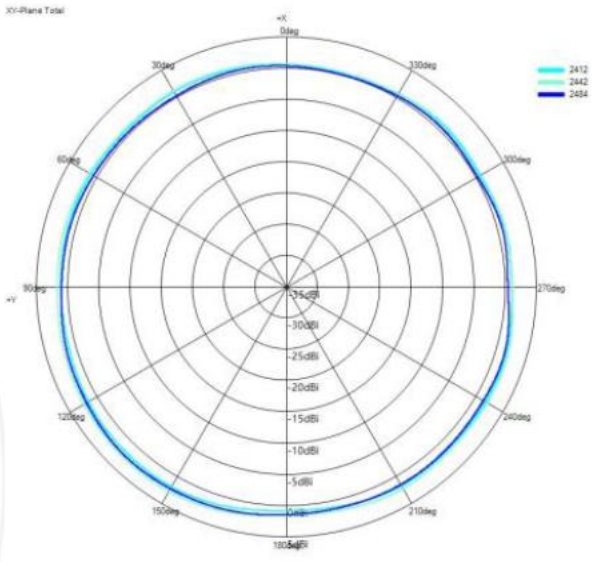
Gain . dB



X-Y Plane

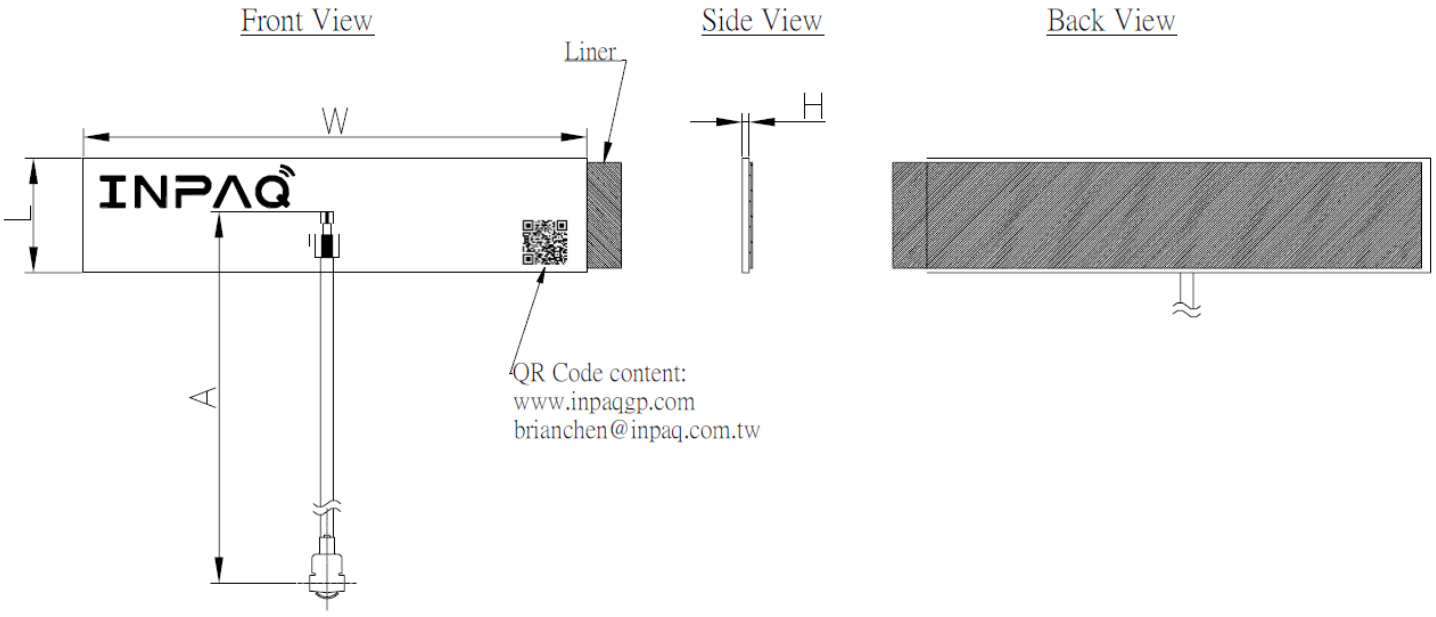
Theta=90.00deg

Gain . dB



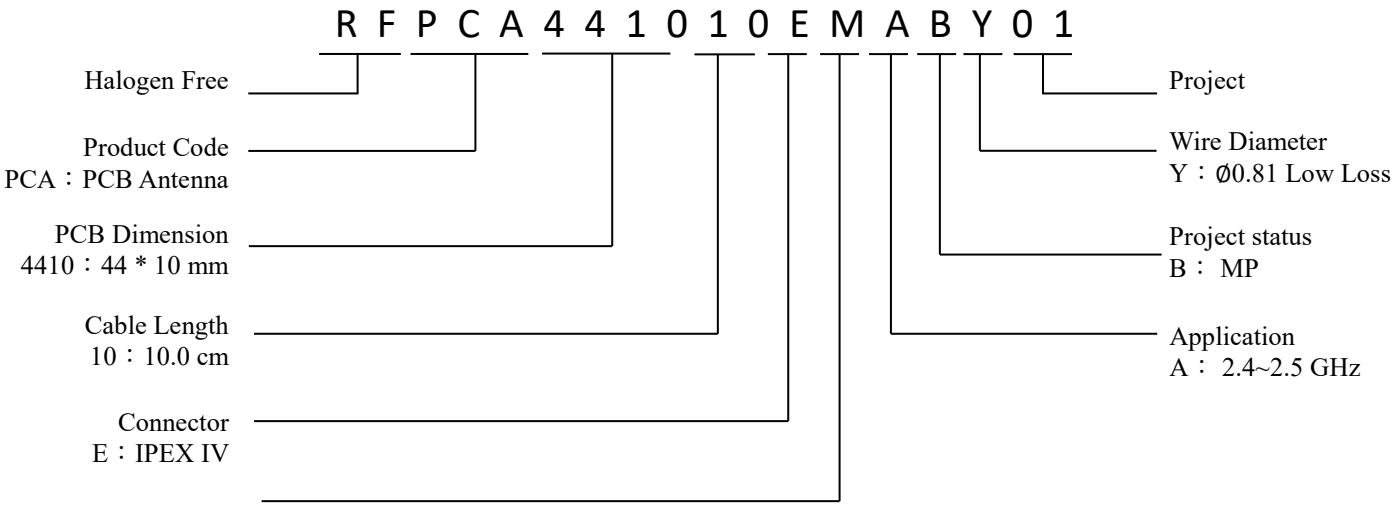
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2412	2.48	-1.59	1.96	-1.37	1.95	1.27
2442	1.79	-1.46	2.13	-1.20	2.80	1.65
2484	1.53	-1.50	2.28	-1.34	2.44	1.16

2. Mechanical Specification



Symbol	Min (mm)	Normal (mm)	Max (mm)
W	43.8	44.0	44.2
L	9.8	10.0	10.2
H	0.5	0.6	0.7
A	97	100	103

3. Ordering Information



4. Package

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

Packaged

Figure 1

Figure 2

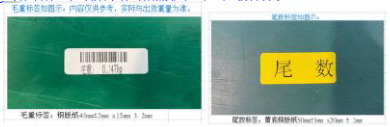
Figure 3

Packaging specifications：

1. 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
2. Put the foam in the outer box (as shown in Figure 2)
3. 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,
4. The filling of mantissa boxes refers to this specification "Y-WI-09-281"

Metal Antenna 370625
RFMTA370625IMAB301 75BI031604 10
-WW0121-031922193619-200 75BI031604 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

5. Version

Version	Date	Description
V01	2025.01.14	Initial release