

品名工規_RFPCA371113IMAB301

1. Explanation of part number :

RF	PCA	3711	13	I	M	A	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3711 Length 37mm, Width 11mm	2 digits for cable length e.g.: 13 Length 13cm	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: 5GHz 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 R:902~928 MHz N: NFC T: LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:∅ 0.81 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	24~2.5 GHz(Note-1)
Return Loss	-10 dB(Max)
VSWR	2 max.
Gain	3.9 dBi
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20° C~+65° C

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 : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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TITLE : RFPCA371113IMAB301

DOCUMENT NO.

ENS070011160-000803712555

SPEC REV.
A1

3. Antenna Drawing :

ELECTRICAL
Frequency : 2400-2500 MHz

3.50
1.00
1.00
A
B
C
D

A - center conductor
B - Dielectric
C - Outer conductor
D - Jacket

1 37.00±0.25
2 11.00±0.25
3 1.30±0.3

PCA3711-2B
離型紙預留手撕耳朵

※標記□記號者, 為重點檢繪尺寸

INDEX | PART NO. | DESCRIPTION | QTY | MATERIAL | FINISH

SELECT	A	B	C	D
SPEC. CLASS	<6mm	0.05	0.1	0.2
	6~30mm	0.08	0.2	0.5
	30~120mm	0.12	0.3	0.8
	120~315mm	0.25	0.5	1.2
	315~1000mm	0.3	0.8	2.0
	1000~2000mm	0.5	1.2	3.0
ANGLE	0.5			

MATERIAL SEE NOTE

3RD ANGLE

SCALE : NA

SHEET 1 OF 1

DWG. No. : RFPCA371113IMAB301

UNIT : MM

PART No. : RFPCA371113IMAB301

SIZE : A4

INPAQ Technology Co., Ltd.

禾邦电子(苏州)有限公司

李欣樺
詹惠愛
陳振榮

DO NOT MANUALLY UPDATE

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Engineering Change Description : New drawing release

Reversion : A1

Date : 2021/07/14

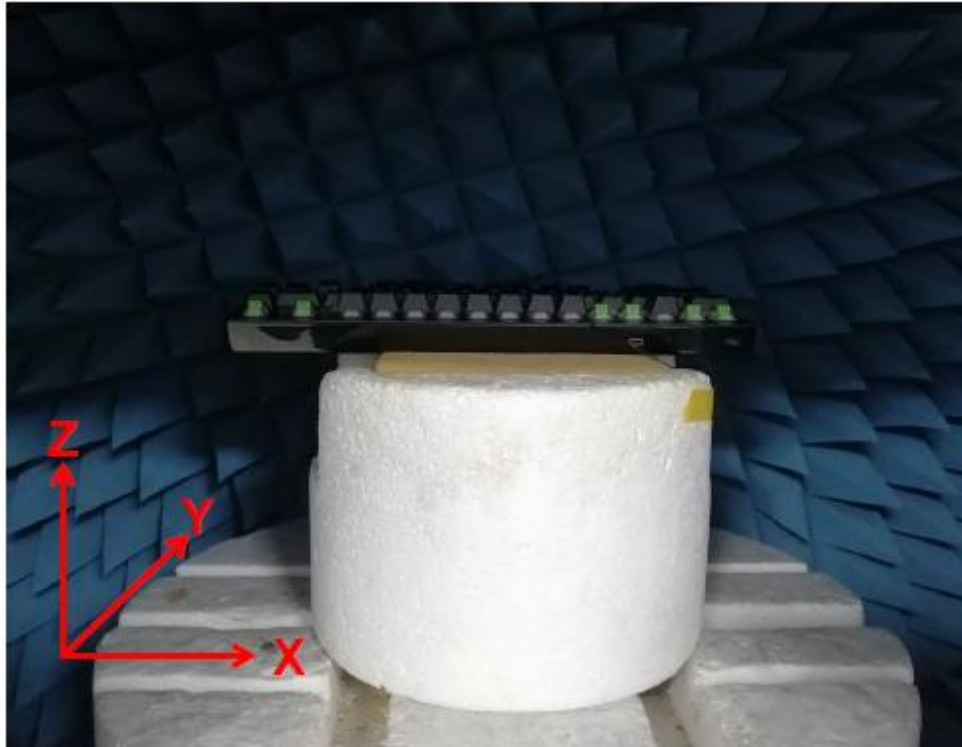
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ANGLES = N/A		HOLEDIA = N/A	
SCALE : N/A	UNIT : mm		
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4. Performance Report :

Test Report

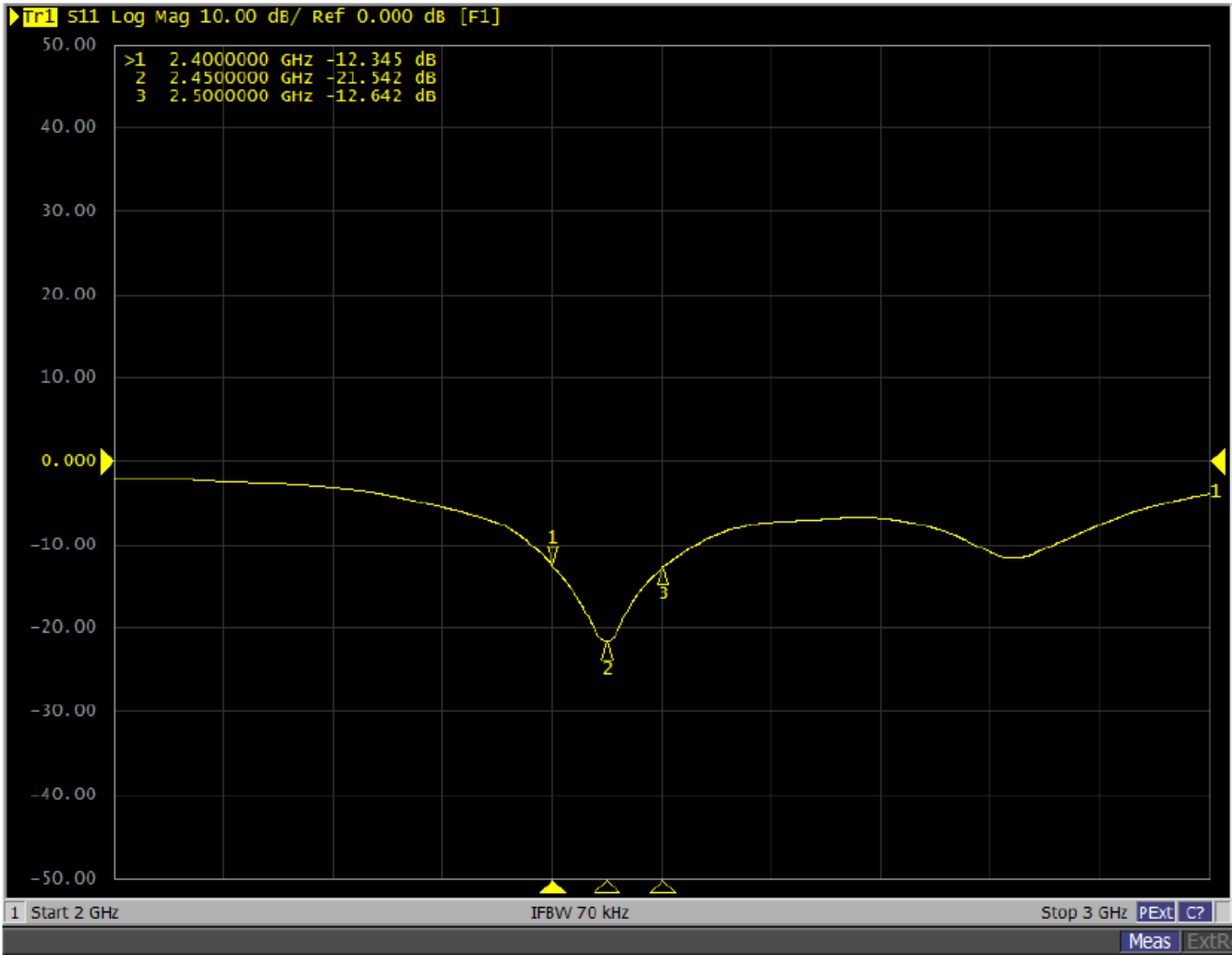
ELECTRICAL CHARACTERISTICS




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ELECTRICAL CHARACTERISTICS

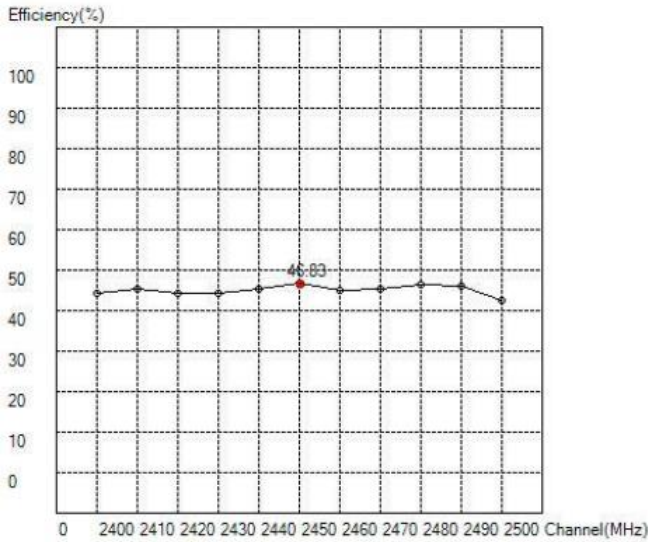
Return Loss



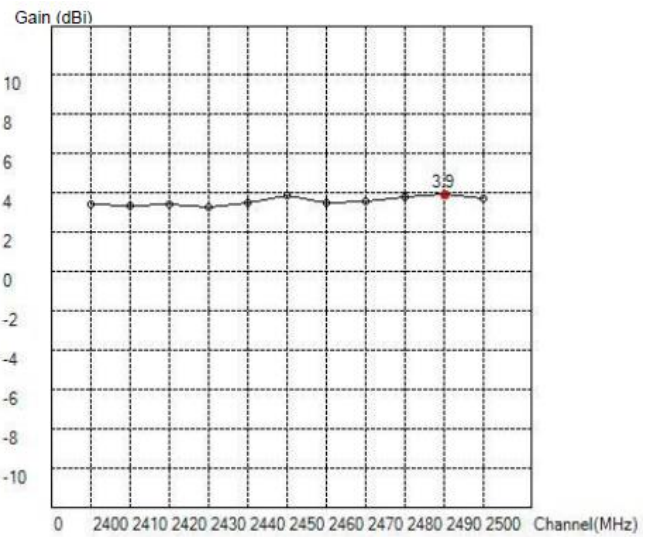
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		SPEC REV. A1

Efficiency & Peak Gain

2G



Maximum Efficiency at 2450MHz : 46.83 %



Maximum Peak Gain at 2490 MHz : 3.9 dBi

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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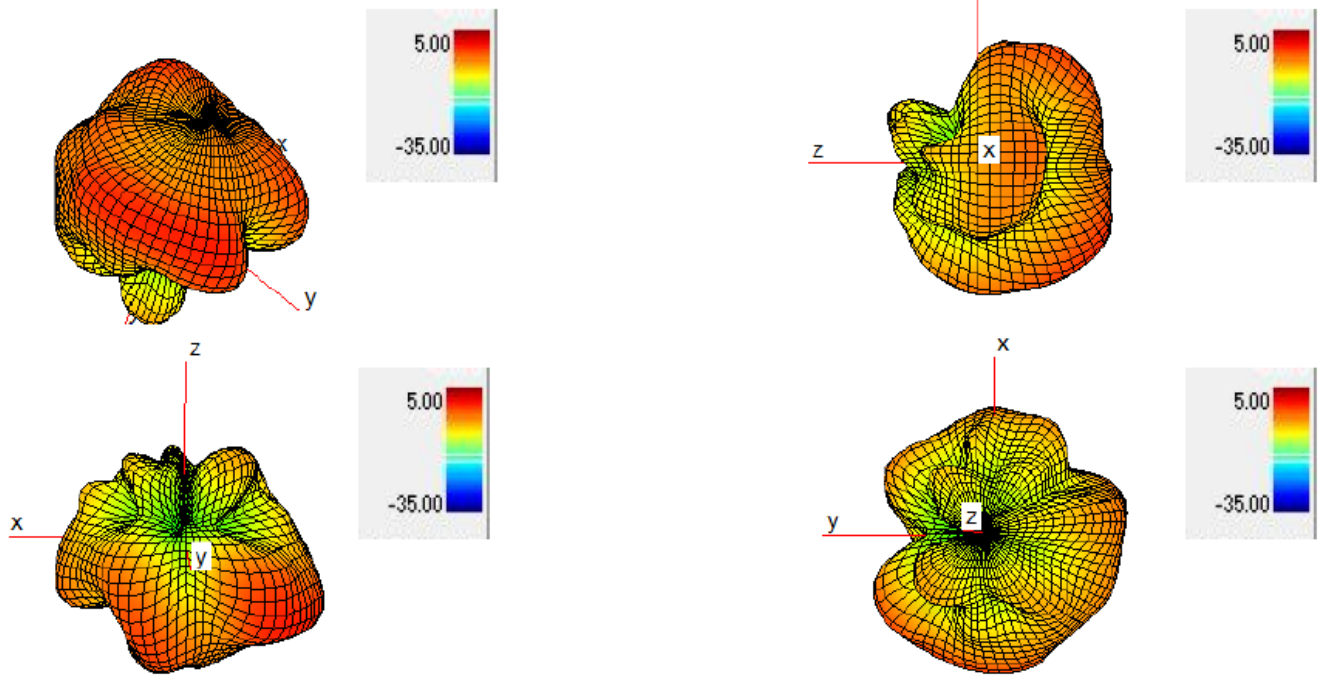
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SPEC REV. A1

3D Pattern

2450 MHz



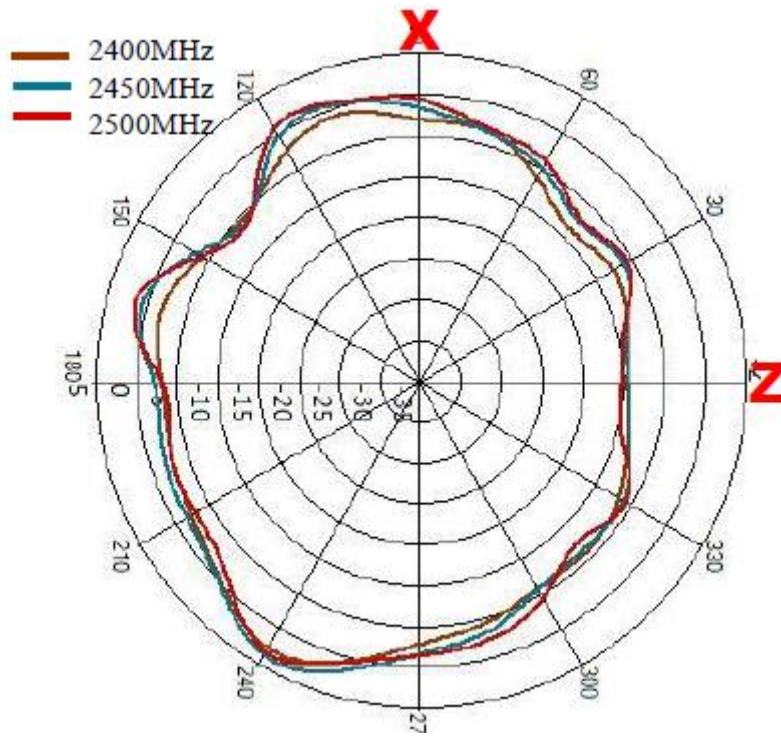
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Radiation Patterns

X-Z Plane

Phi=0.00deg

Gain . dB

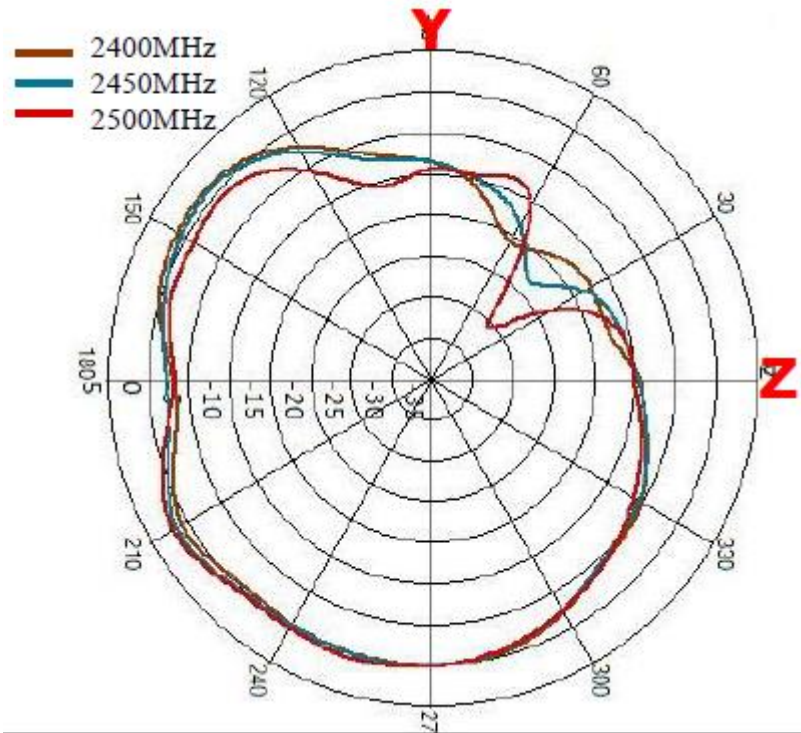



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ANGLES = N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
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Y-Z Plane

Phi=90.00deg

Gain . dB

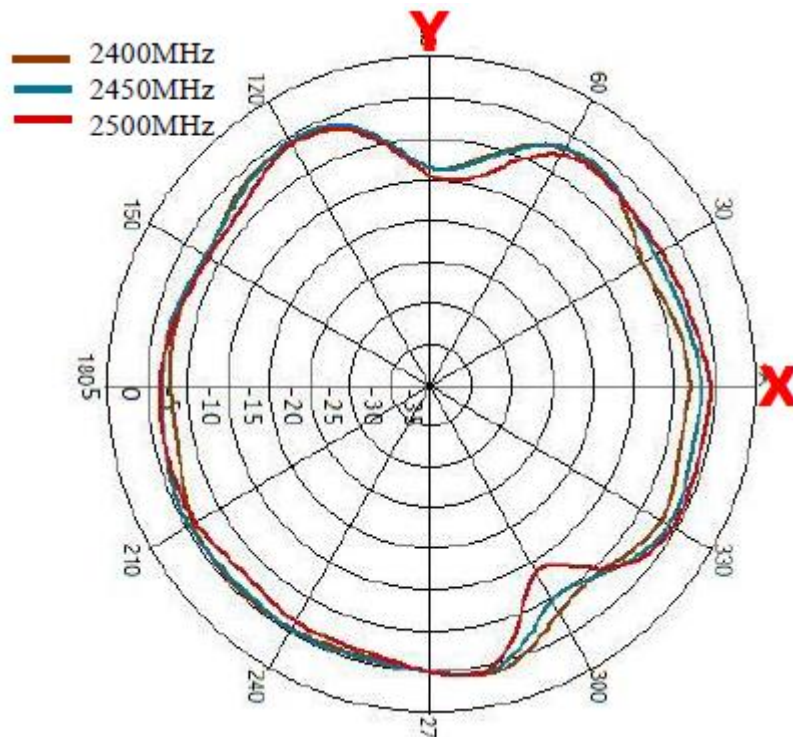


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X-Y Plane

Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	2.41	-3.35	1.05	-2.80	0.68	-2.24
2450	3.43	-2.35	1.19	-2.83	0.08	-1.85
2500	2.94	-2.35	1.67	-3.11	-0.08	-2.17

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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