

[illegible]

品名：RFPCA460610IMAB309

1. Explanation of part number：

RF	PCA	4606	10	I	M	A	B	3	09
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.: 2221 Length 22mm, Width 21mm	2 digits for cable length e.g.: 14 Length 14.5cm	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 N: NFC T: LTE band W: WCDMA band	B: MP T: During Test X: Pile Run	0: None 1: $\varnothing$ 0.81 2: $\varnothing$ 1.32 3: $\varnothing$ 1.13 4: Low Loss $\varnothing$ 1.13 5: $\varnothing$ 0.5 6: RG316 7: $\varnothing$ 1.37 8: RG178 9: Low Loss $\varnothing$ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4~2.5 GHz
Return Loss	-10 dB(Max.)
VSWR	2.0 Max.
Peak Gain	2.45 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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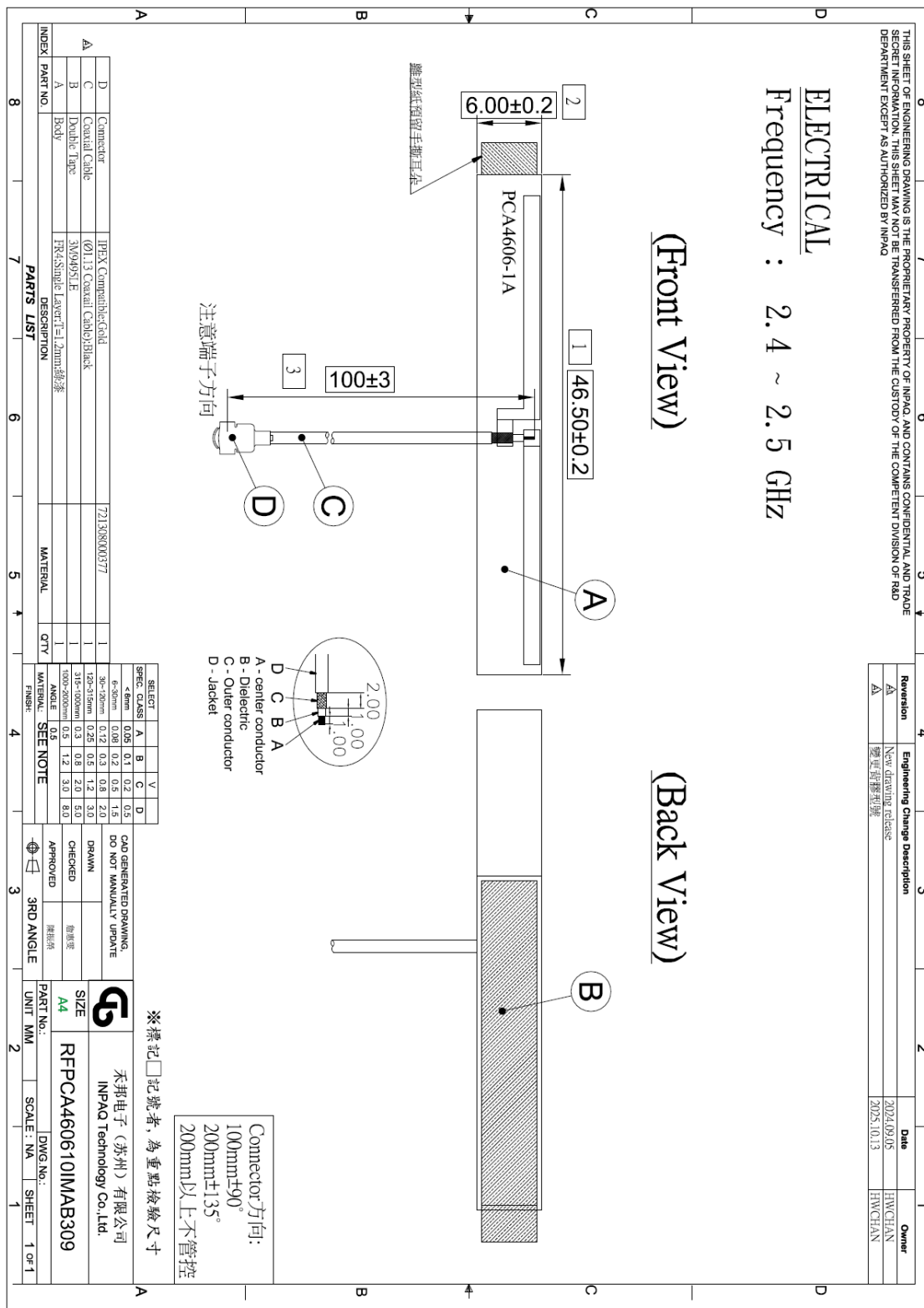
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A1

3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = N/A

X,X = N/A

X,XX = N/A

ANGLES = N/A

HOLEDIA = N/A

SCALE : N/A

UNIT : mm

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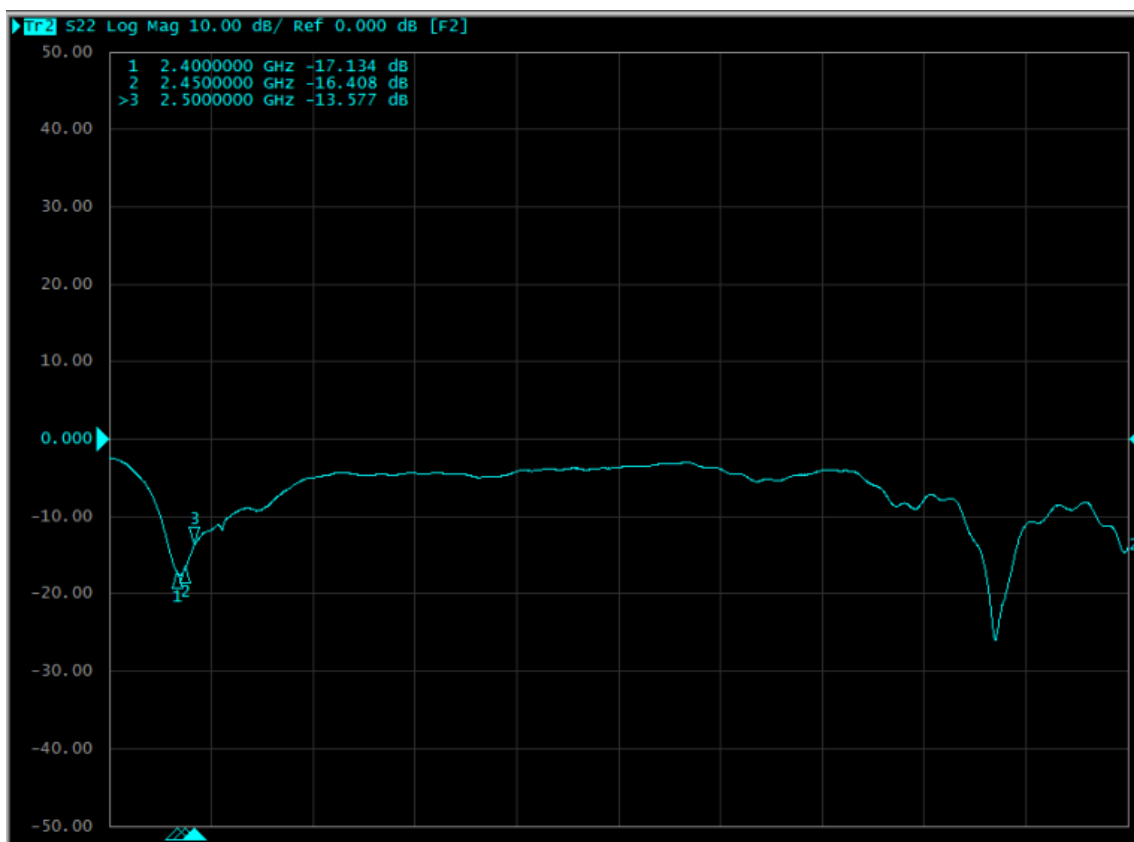
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4. Performance Report :

Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss



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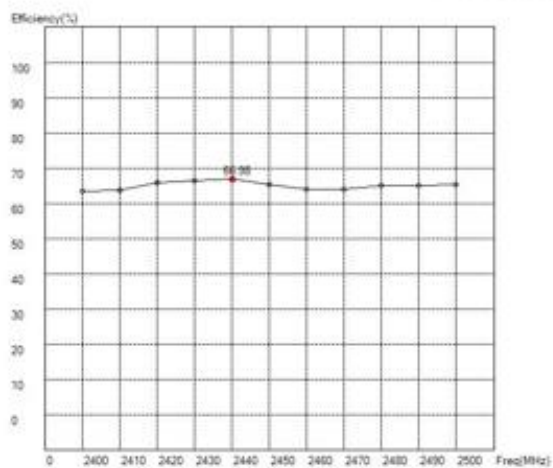
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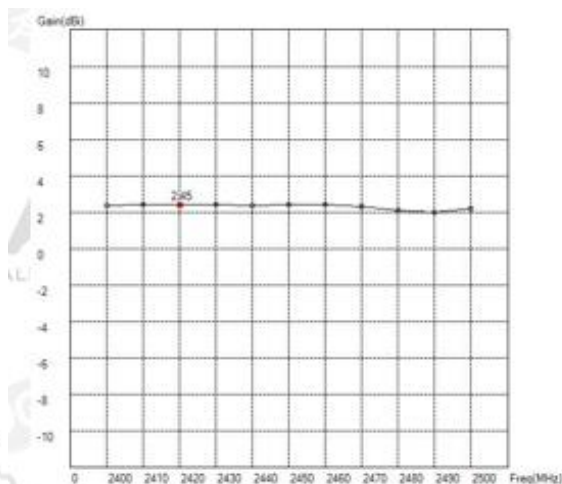
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■ Antenna Efficiency & Peak Gain

2400~2500 MHz



Maximum Efficiency at 2440 MHz : 66.98 %



Maximum Peak Gain at 2420 MHz : 2.45 dBi

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HOLEDIA = N/A



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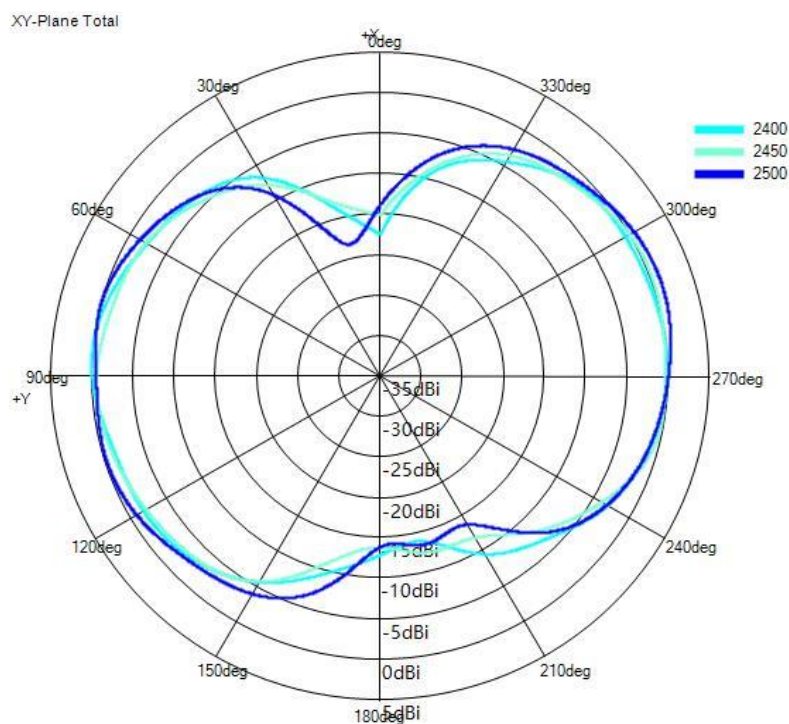
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

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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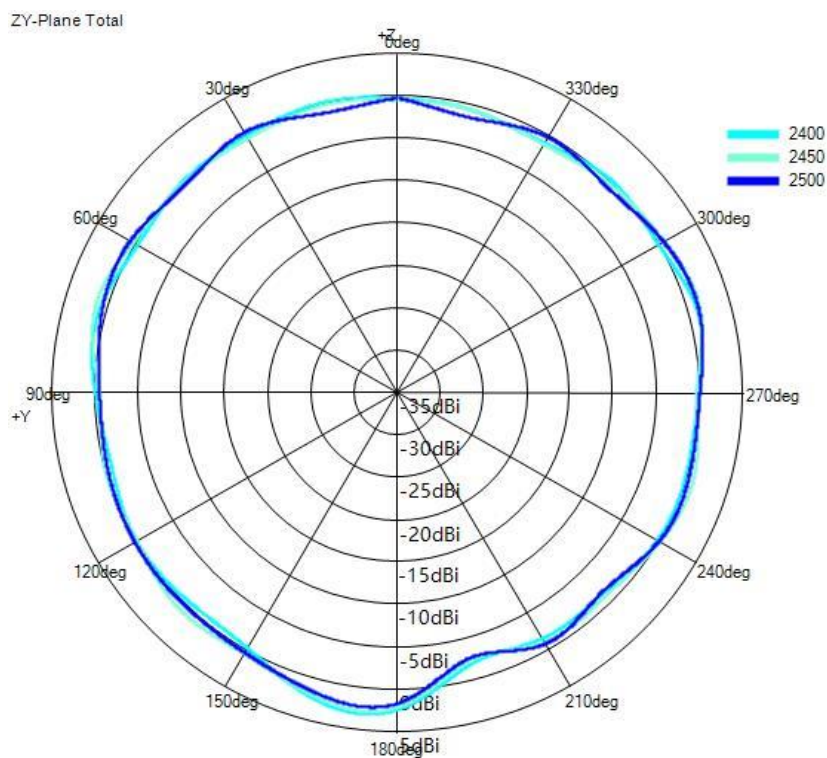
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Phi=90.00deg**Gain . dB**

UNLESS OTHER SPECIFIED TOLERANCES ON :

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HOLEDIA = N/A



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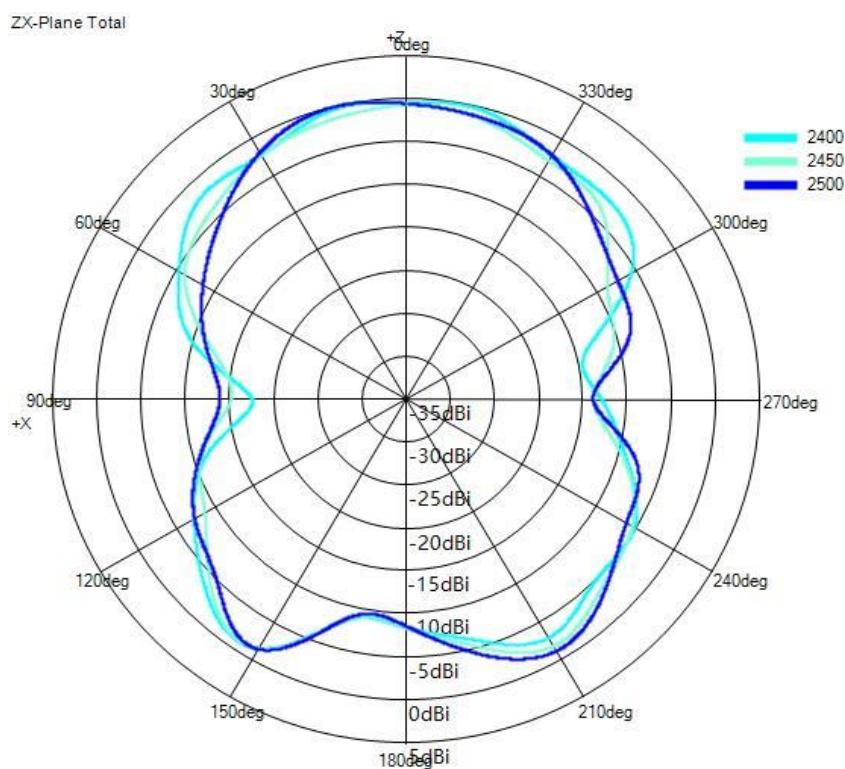
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Theta=90.00deg

Gain . dB



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Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	0.04	-3.30	2.38	-0.23	-0.30	-3.70
2450	0.11	-3.41	2.05	-0.03	-0.65	-4.14
2500	1.00	-2.74	1.62	-0.15	0.03	-3.92



禾邦電子(蘇州)有限公司
INPAQ TECHNOLOGY(SuZhou)
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No. 59-12, 9 Lin, Ta Tsuo Li, Chu Nan
Chen, Miao Li Hsien, Taiwan, R.O.C.

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