



# 品名工規\_RFPCA361809IMMB301

## 1. Explanation of part number :

RF	PCA	3618	09	I	M	M	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.: 3609 Length 36.5mm, Width 9mm	2 digits for cable length e.g.: 15 Length 15cm	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>B: Reverse Male</b> 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 U:430~470 MHz W: WCDMA band	B: MP <b>T:During Test</b> 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	2.4~2.5/5.15~5.85 GHz
Return Loss	-10 dB(Max)
VSWR	< 2
Gain	1.67dBi@2.4~2.5 GHz 3.28 dBi@5.15~5.85 GHz
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

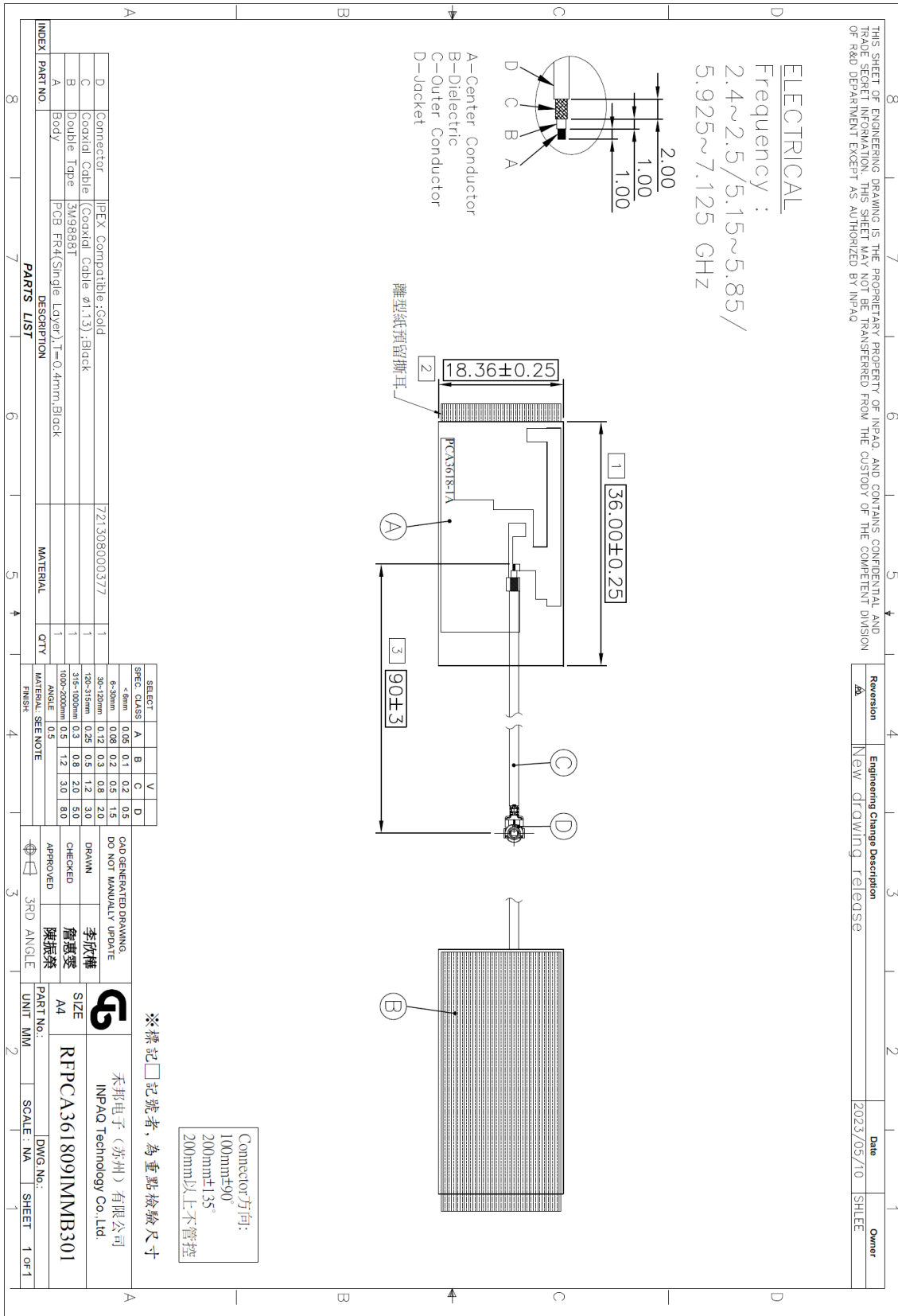
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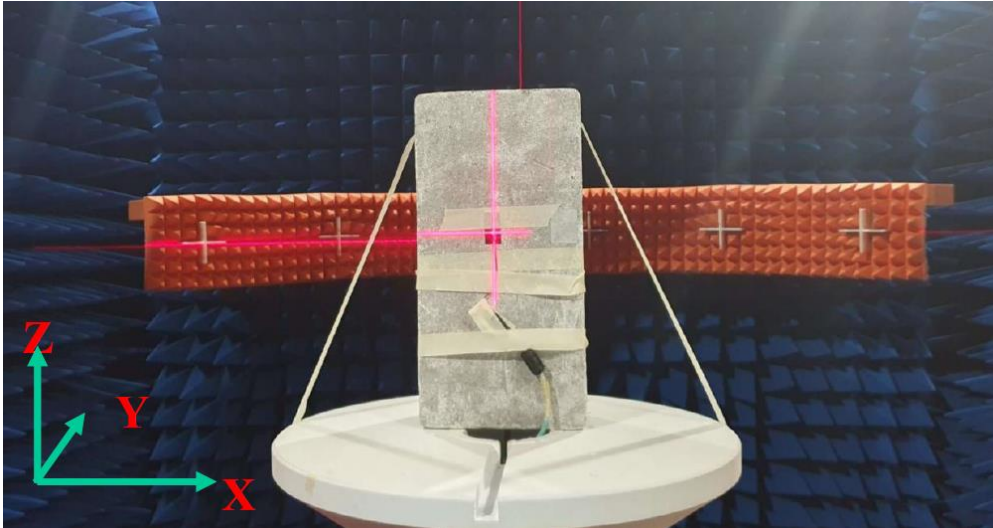
### 3. Antenna Drawing :




4. Performance Report :

**Test Report**

**Experimental Setup**




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# ELECTRICAL CHARACTERISTICS

## Return Loss



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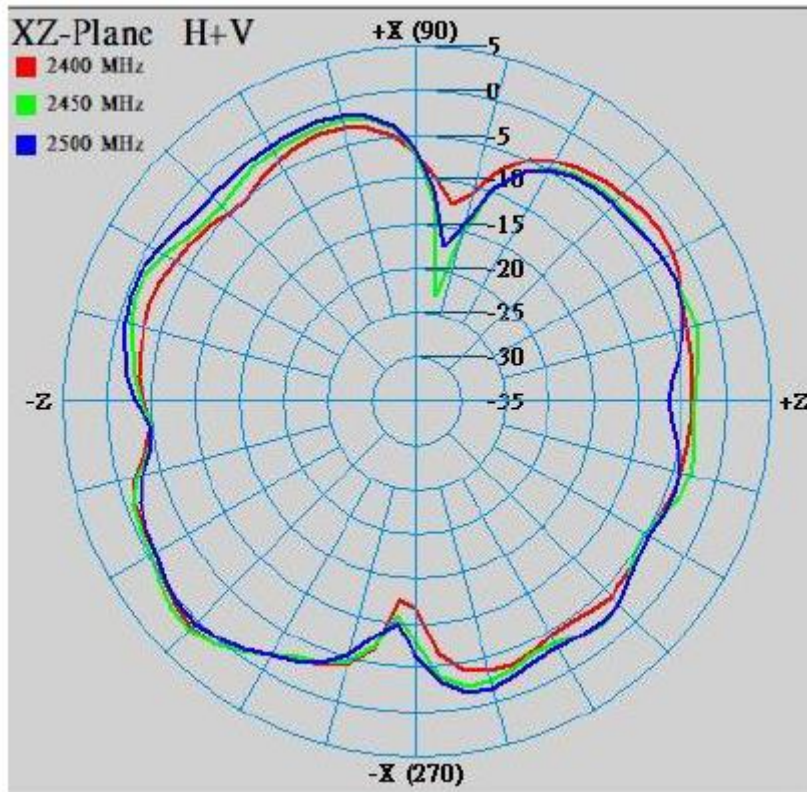
# Radiation Patterns


2G

X-Z Plane

Phi=0.00deg

Gain . dB

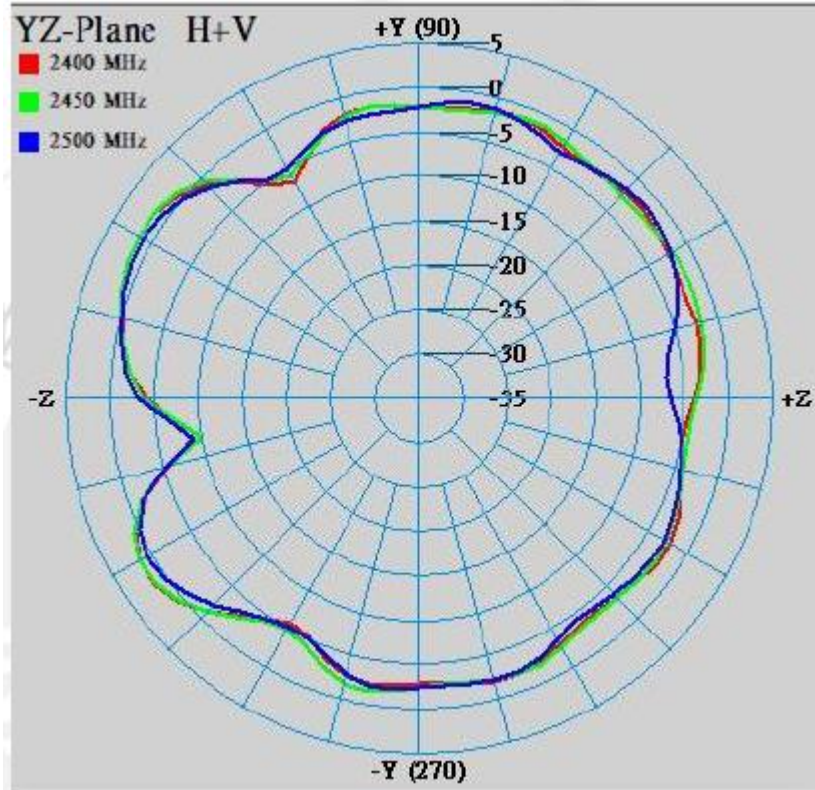



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Y-Z Plane

Phi=90.00deg

Gain . dB



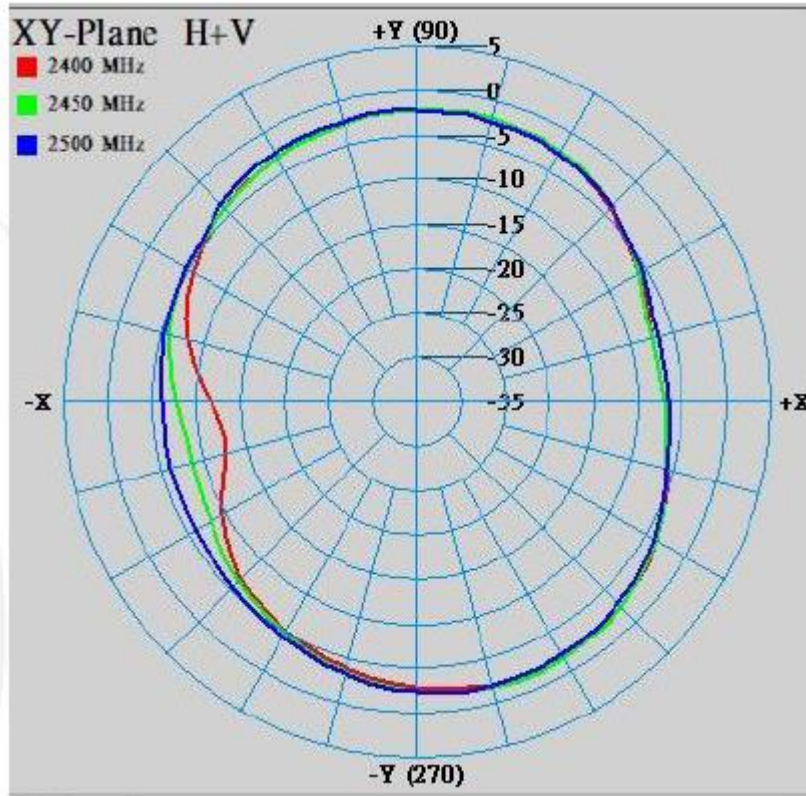
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			P0




X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.02	-3.36	1.67	-2.11	-1.92	-4.41
2450	1.33	-2.95	1.54	-1.96	-1.64	-4.08
2500	0.34	-2.99	0.99	-2.47	-1.97	-3.90

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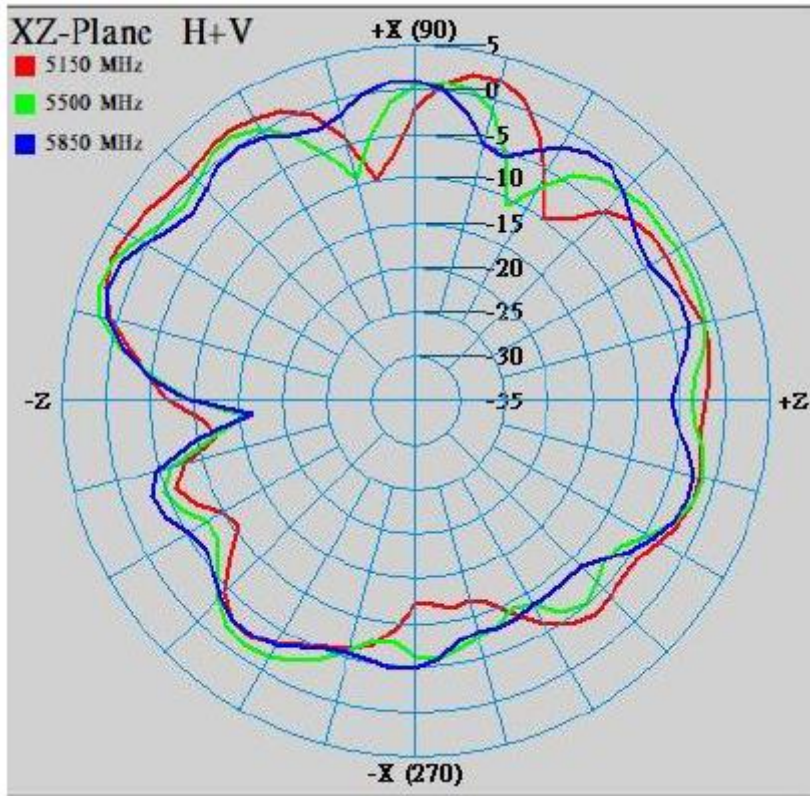



5G

X-Z Plane

Phi=0.00deg

Gain . dB

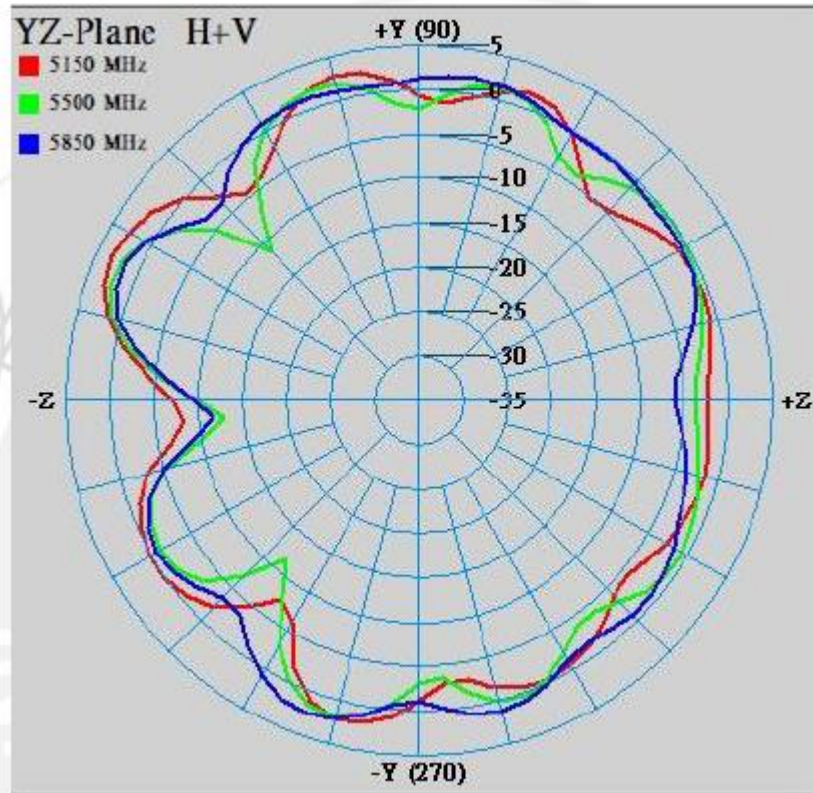



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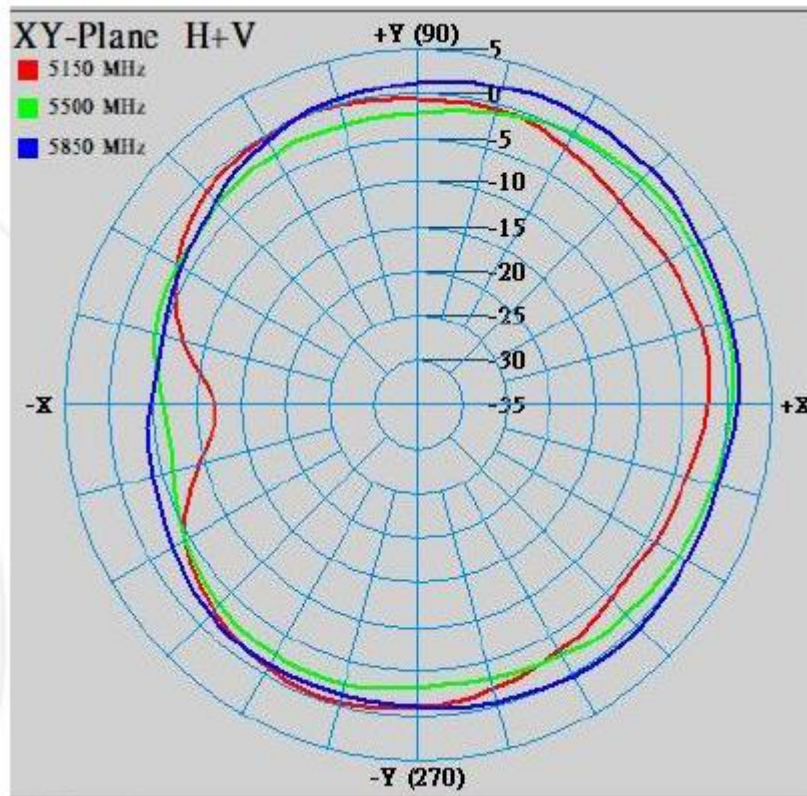


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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	2.84	-2.25	3.28	-0.79	0.01	-2.31
5500	2.91	-2.52	2.33	-1.32	1.01	-1.77
5850	2.07	-2.95	2.52	-0.66	2.42	-0.19

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 ANGLES = N/A      HOLEDIA = N/A



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