

APPROVAL SHEET

Wifi ANTENNA

2400~2500 / 5150~5850 / 5925 ~ 7125 MHz Working Frequency

Halogens Free Product

P/N: RFDPA100805EMMB401

Customer : 研華股份有限公司

Customer 's Part No. : 1751000680-01

Approval No. :

Issue Date :

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

[illegible]

1. Explanation of part number :

RF	DPA	1008	05	E	M	M	B	4	01
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: PIFA Antenna	Per 2 digits of length, width e.g.: 1008 Length 102mm, Width 8.2 mm	2 digits for cable length e.g.:05 Cable Length: 5.5 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 T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 3:Ø1.13 3:Ø1.13 Low Loss 6:RG316 7:Ø1.37 8:RG178 9:Low Loss Ø1.37	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2400 ~ 2500 / 5150 ~ 5850 / 5925 ~ 7125 MHz
VSWR	< 2.0
Peak Gain	2400 ~ 2500 MHz @ 2.80 dBi 5150 ~ 5850 MHz @ 3.79 dBi 5925 ~ 7125 MHz @ 4.12 dBi
Impedance	50Ω
Radiation Pattern	Omni-directional
Polarization	Linear Vertical
Admitted Porwe	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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 林儀禎

APPROVED BY : 陳振榮

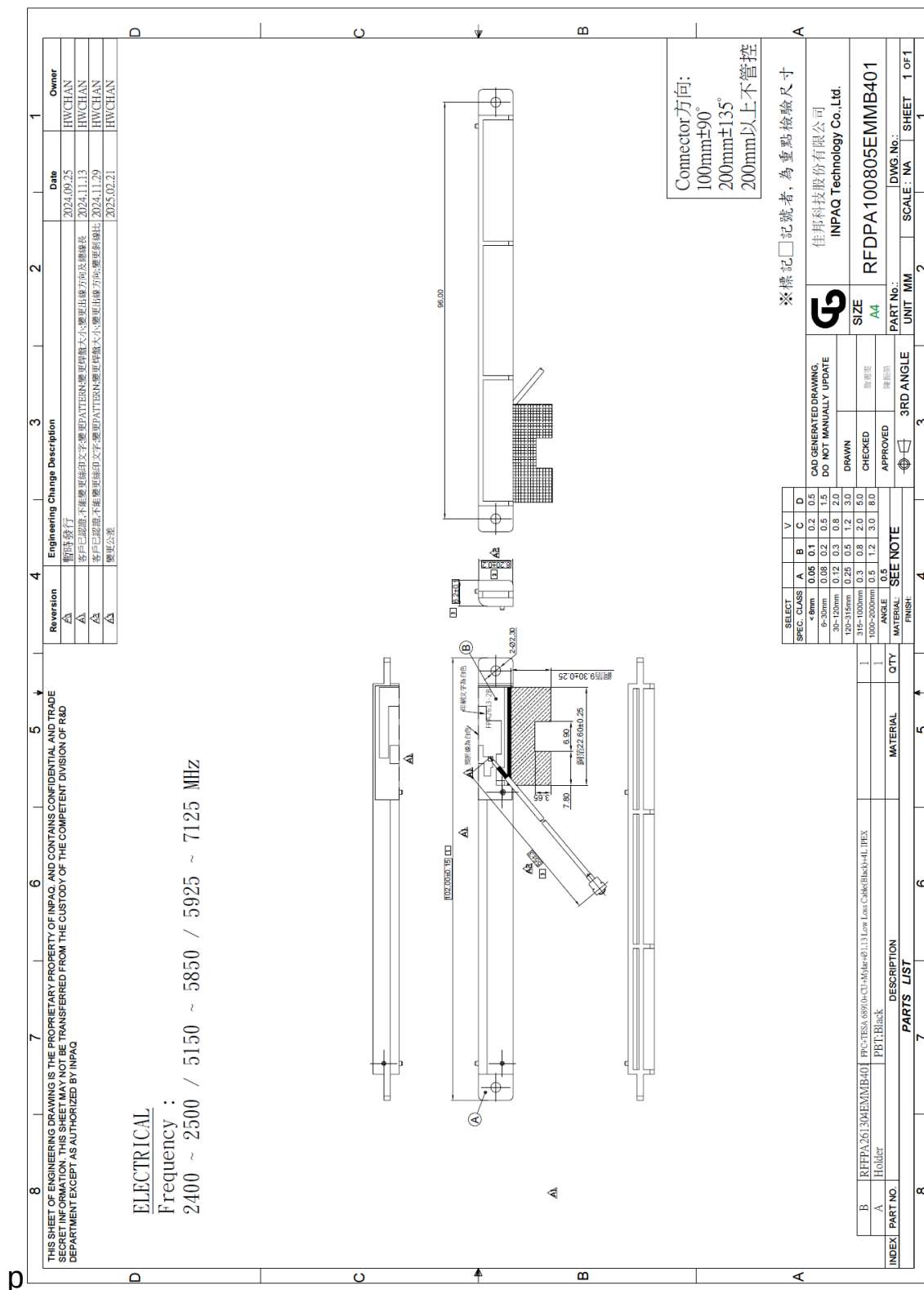
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3. Antenna Drawing :



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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY: 李欣權

CHECKED BY : 詹惠雯

DESIGNED BY : 林儀禎

APPROVED BY : 陳振榮

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ELECTRICAL

Frequency : 2400~2500/5150~5850/ 5925~7125 MHz

(Front View)

(Back View)

※標記□記號者, 為重點檢驗尺寸

剝線尺寸

3.00±0.3(沾錫)
2.00±0.3(AA)
1.00±0.3(沾錫)

Connector方向:
100mm±90°
200mm±135°
200mm以上不管控

預打線

離型紙預切線

55±3

1 26.25±0.25

2 13.30±0.25

3 10.00

4 6.90

5 22.60

6 7.80

7 3.70

8 10.00

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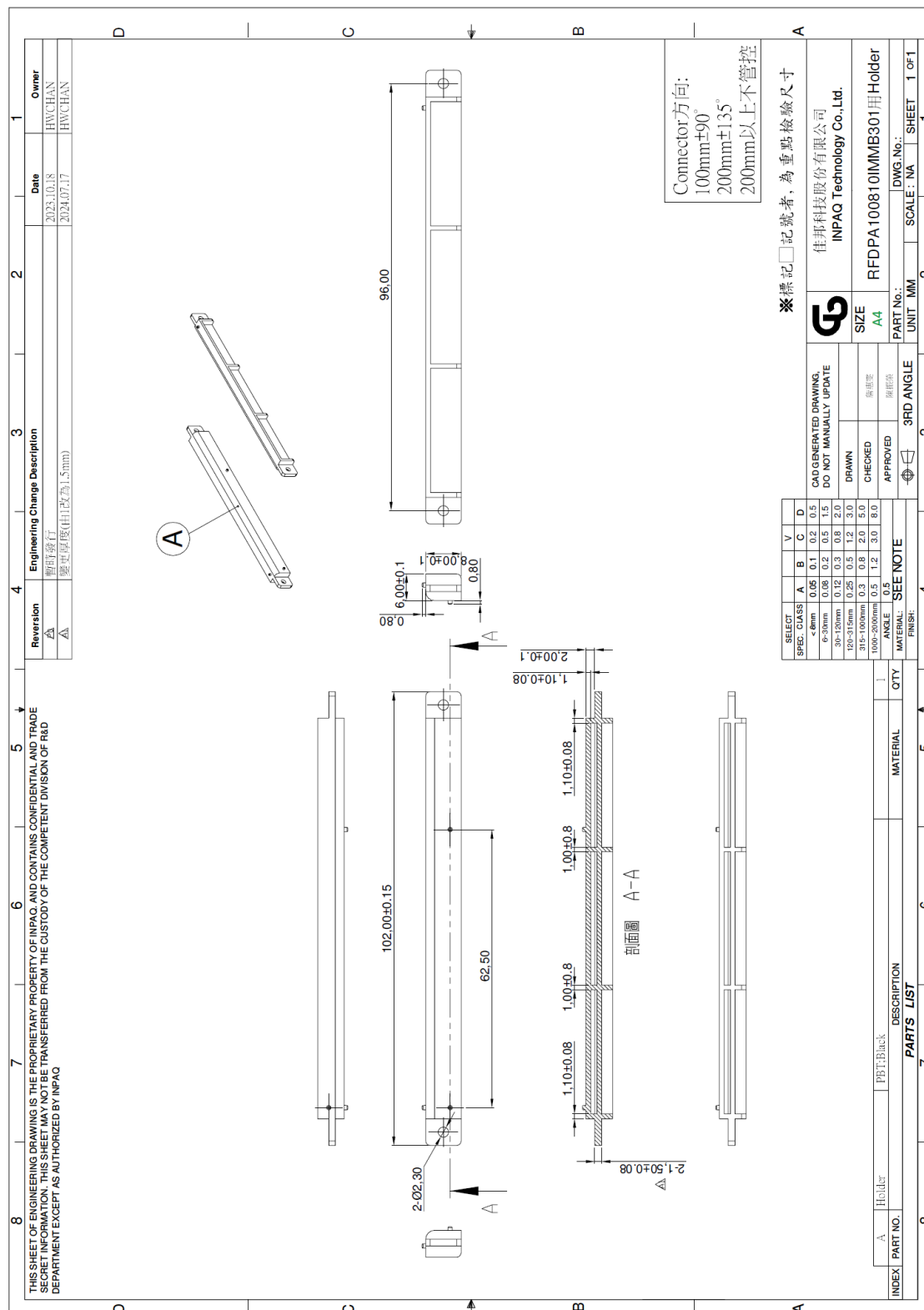
289 6.90

290 22.60

291

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SCALE : N/A	UNIT : mm		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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DESIGNED BY : 林儀禎	APPROVED BY : 陳振榮		TITLE : RFDPA100805EMMB401	A0

4. Holder :

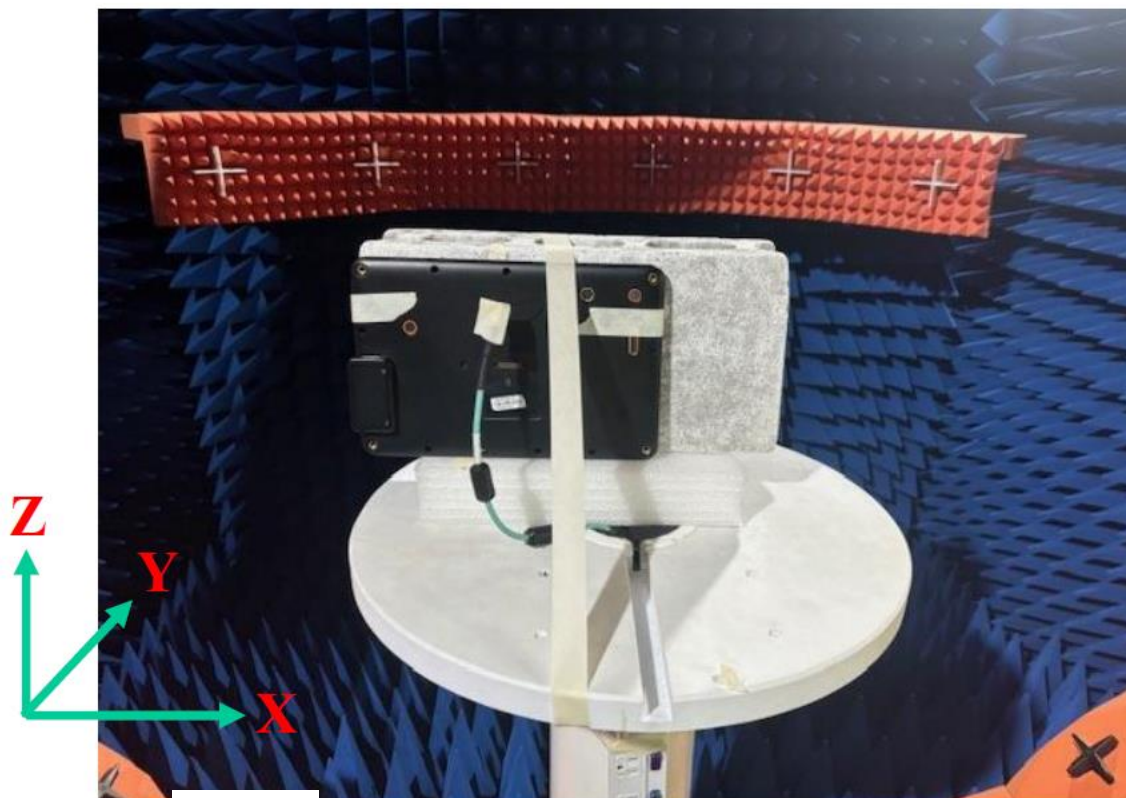


UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A		 INPAQ TECHNOLOGY CO., LTD.	
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DESIGNED BY : 林儀禎	APPROVED BY : 陳振榮		
TITLE : RFDPA100805EMMB401		DOCUMENT NO.	SPEC REV A0

5. Performance Report :

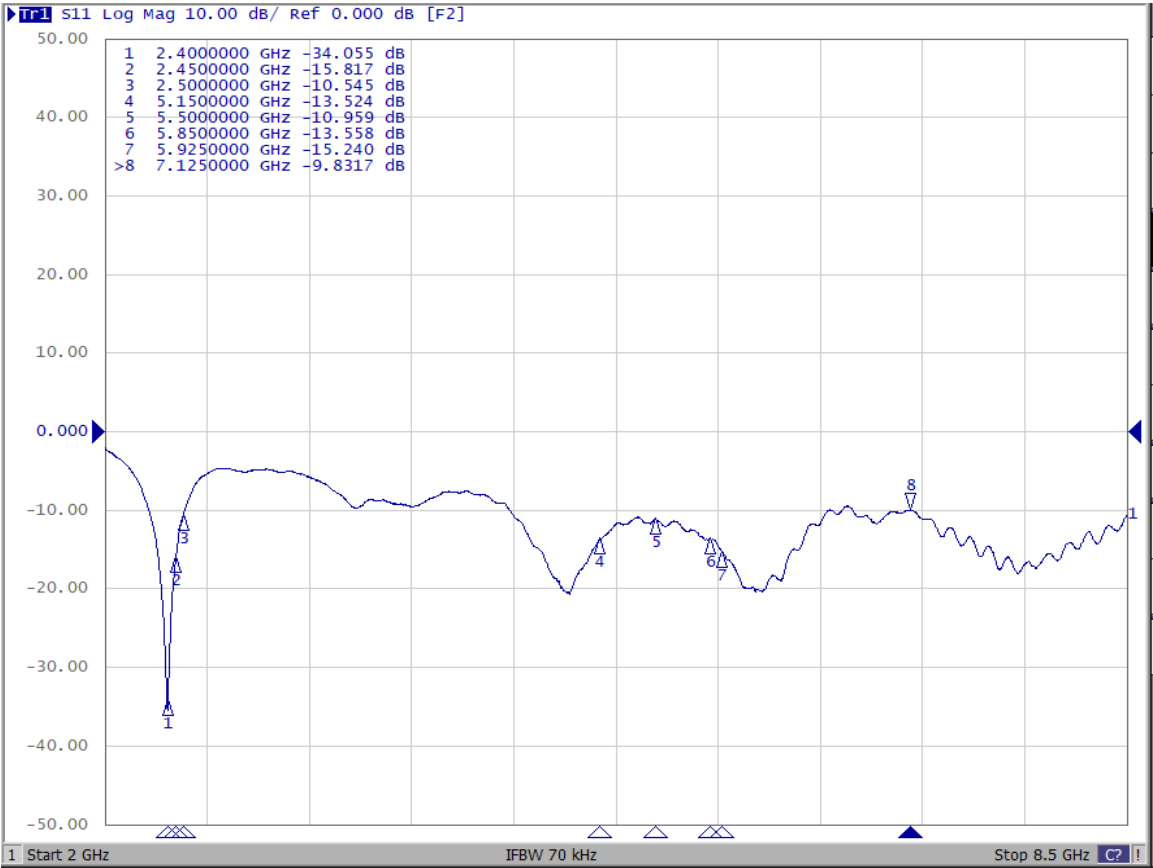
Test Report

■ Experimental Setup



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SCALE : N/A	UNIT : mm				
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					A0

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.

SCALE : N/A	UNIT : mm
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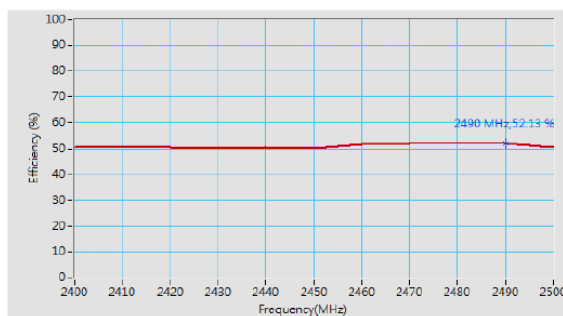
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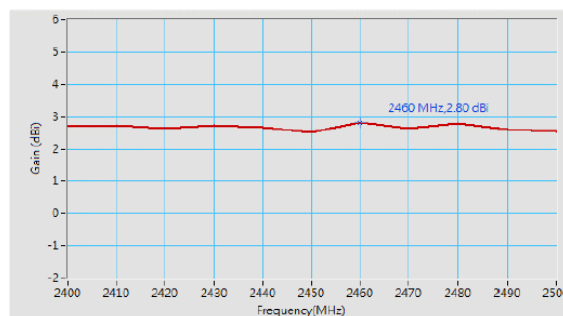
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Efficiency & Peak Gain

2G

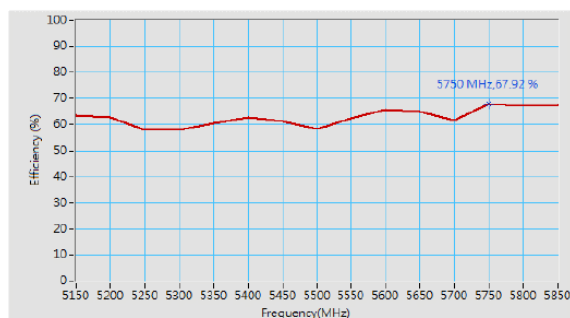


Maximum Efficiency at 2490 MHz : 52.13 %

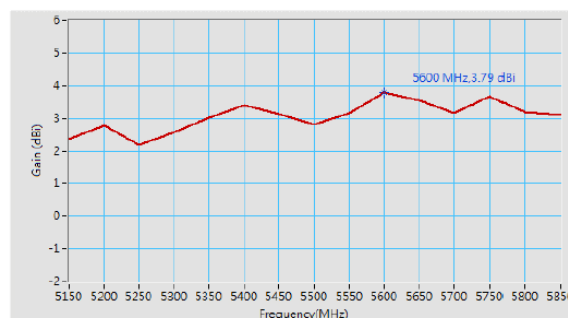


Maximum Peak Gain at 2460 MHz : 2.80 dBi

5G



Maximum Efficiency at 5750 MHz : 67.92 %



Maximum Peak Gain at 5600 MHz : 3.79 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.

SCALE : N/A

UNIT : mm

DRAWN BY : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 林儀禎

APPROVED BY : 陳振榮

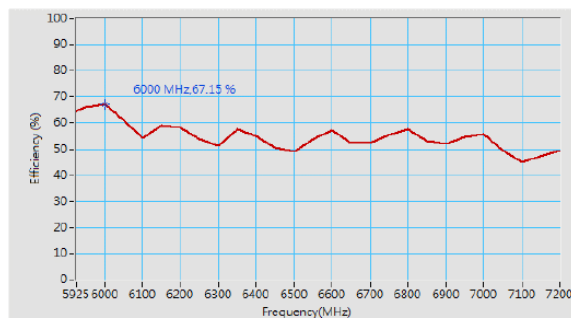
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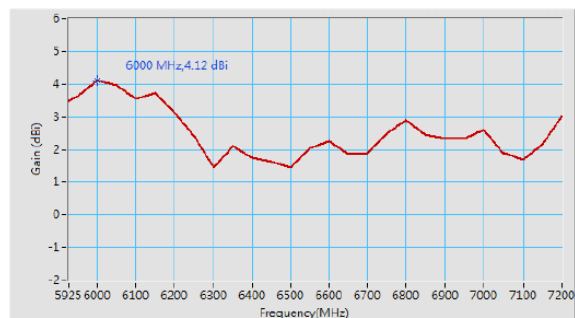
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6G



Maximum Efficiency at 6000 MHz : 67.15 %



Maximum Peak Gain at 6000 MHz : 4.12 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.

SCALE : N/A

UNIT : mm

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Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400~2500	52.12	2.80
5150~5250	63.68	2.77
5250~5350	60.67	3.01
5470~5725	67.92	3.79
5725~5850	67.92	3.66
5925~6425	67.14	4.12
6425~6525	57.15	2.25
6525~6875	57.41	2.89
6875~7125	55.59	2.60

Frequency (MHz)	Efficiency(%)	Peak Gain (dBi)
2400	50.35	2.68
2410	50.47	2.72
2420	50.58	2.63
2430	50.35	2.72
2440	50.58	2.65
2450	50.35	2.51
2460	51.76	2.80
2470	51.88	2.63
2480	52	2.78
2490	52.12	2.61
2500	50.7	2.53

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
5150	63.68	2.38
5200	62.81	2.77
5250	57.81	2.20
5300	57.94	2.57
5350	60.67	3.01
5400	62.81	3.40
5450	61.24	3.15
5500	58.34	2.81
5550	62.52	3.16
5600	65.77	3.79
5650	64.86	3.54
5700	61.66	3.16
5750	67.92	3.66
5800	67.14	3.20
5850	67.61	3.11

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
5900	63.1	3.35
5950	66.07	3.63
6000	67.14	4.12
6050	61.24	3.97
6100	54.33	3.56
6150	59.16	3.72
6200	58.21	3.14
6250	53.7	2.38
6300	51.29	1.44
6350	57.54	2.10
6400	54.83	1.76
6450	50.58	1.63
6500	49.2	1.46
6550	53.83	2.05
6600	57.15	2.25
6650	52.6	1.87
6700	52.24	1.91
6750	55.34	2.50
6800	57.41	2.89
6850	53.33	2.47
6900	52.24	2.34
6950	54.58	2.33
7000	55.59	2.60
7050	49.32	1.91
7100	44.87	1.70
7150	47.32	2.17
7200	49.43	3.01

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

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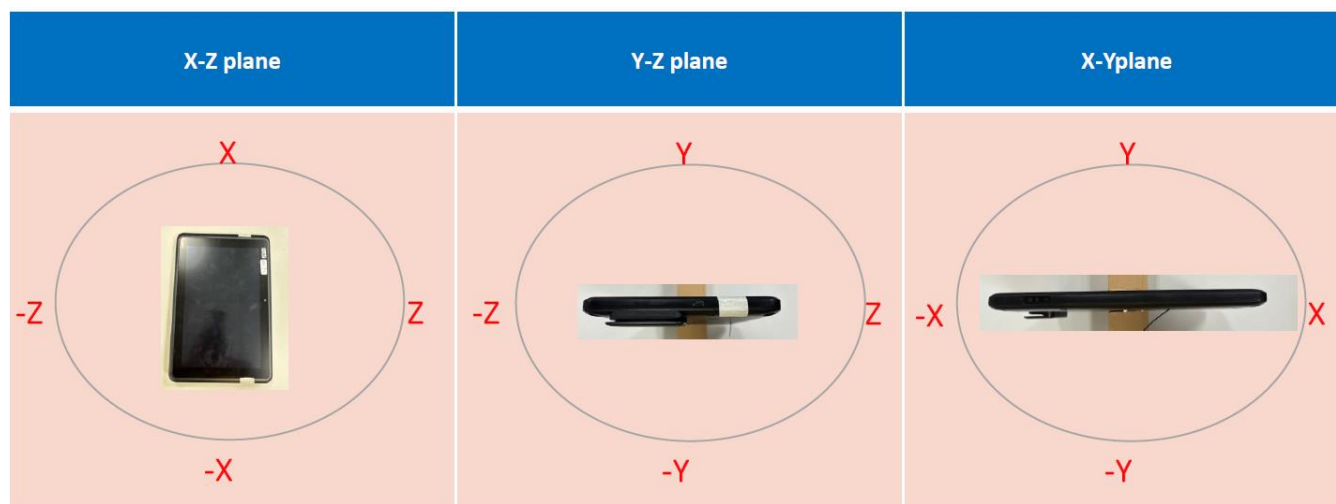
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■ 3 Views of antenna



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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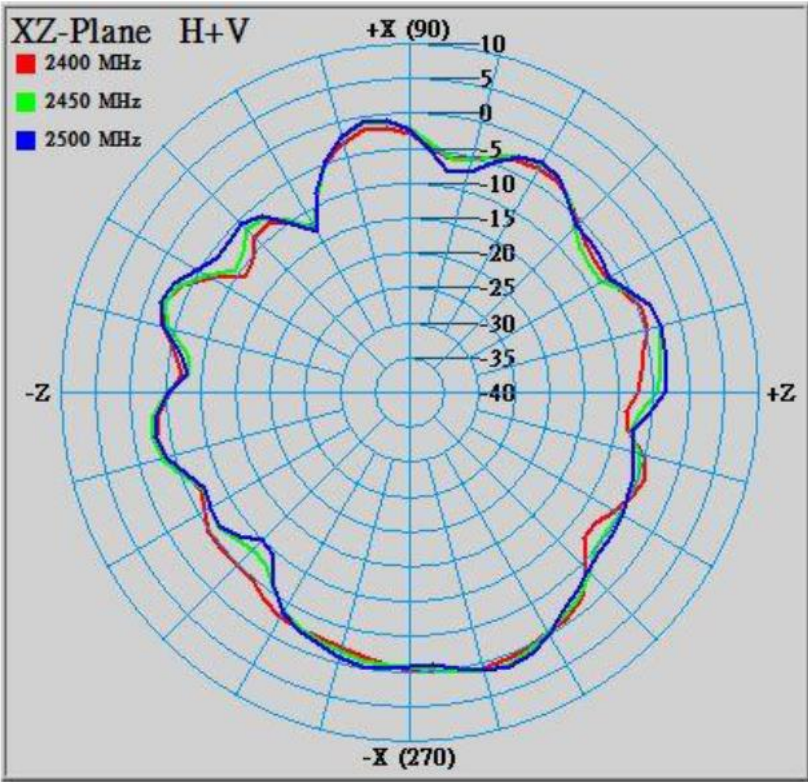
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Radiation Patterns

2G

X-Z Plane

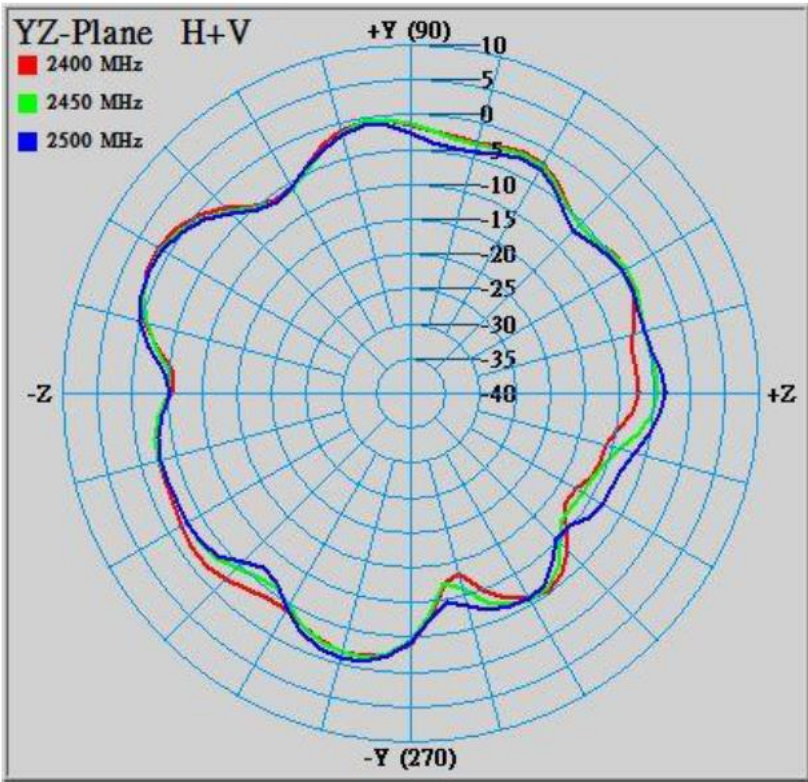
Phi=0.00deg



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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Y-Z Plane

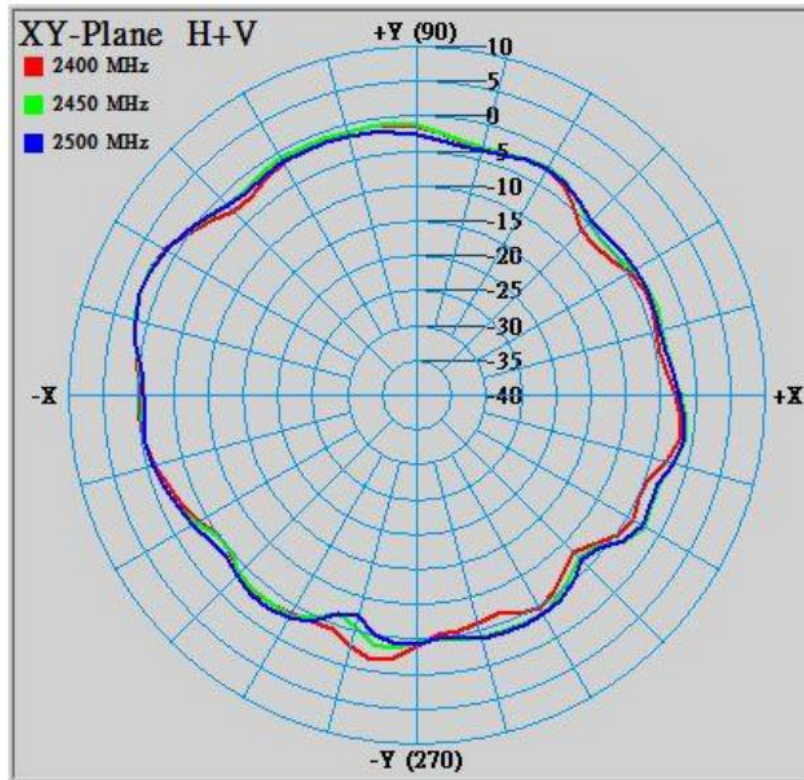
Phi=90.00deg



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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X-Y Plane

Theta=90.00deg



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	0.84	-3.78	1.99	-3.35	2.58	-2.42
2450	1.5	-3.56	1.53	-3.55	2.5	-2.11
2500	1.82	-3.42	1.52	-3.56	2.26	-2.27

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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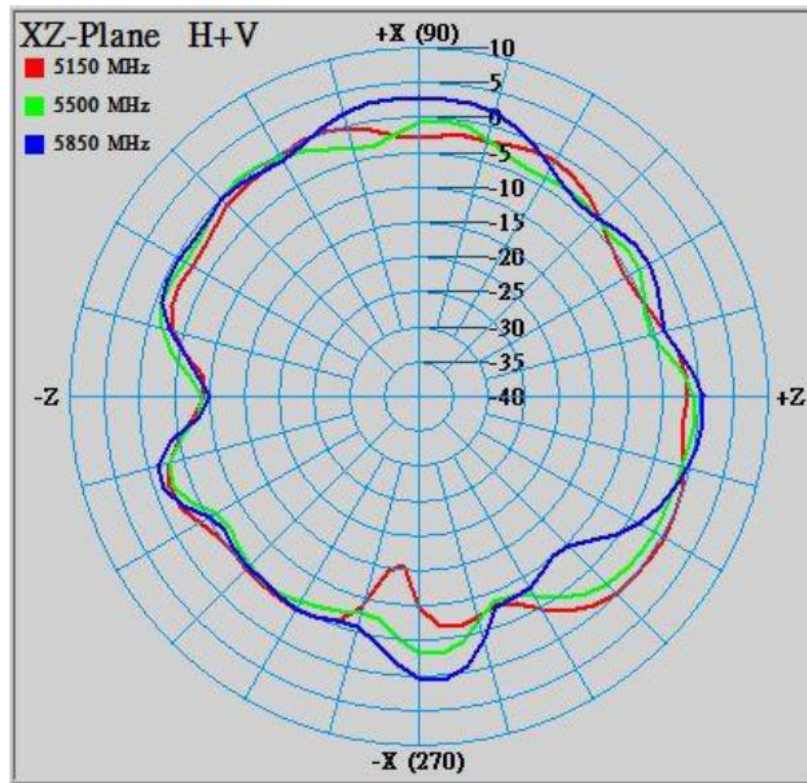
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NO.SPEC REV.
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5G

X-Z Plane

Phi=0.00deg



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 : 林儀禎

APPROVED BY : 陳振榮

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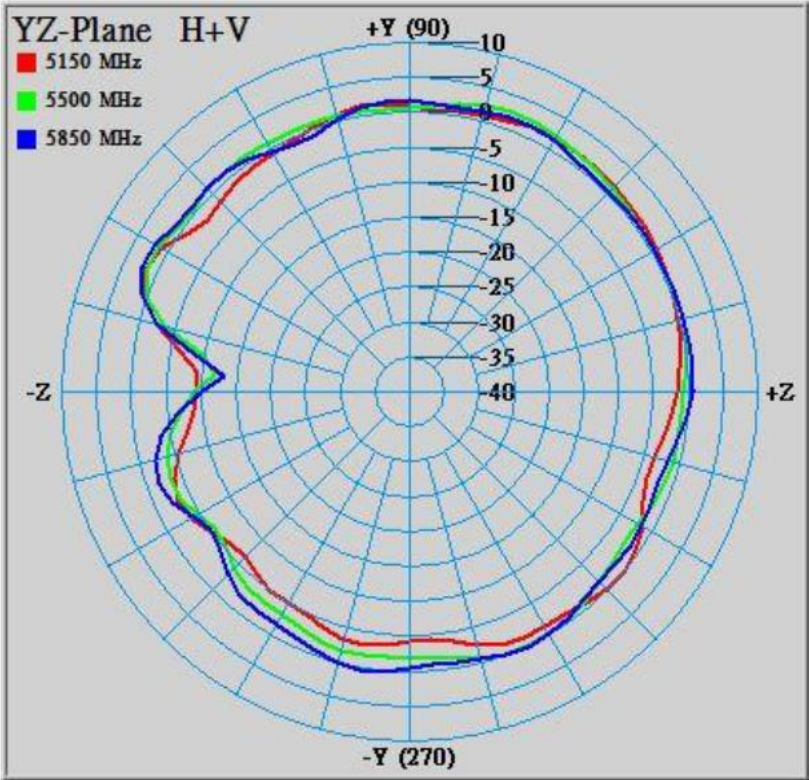
TITLE : RFDPA100805EMMB401

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Y-Z Plane

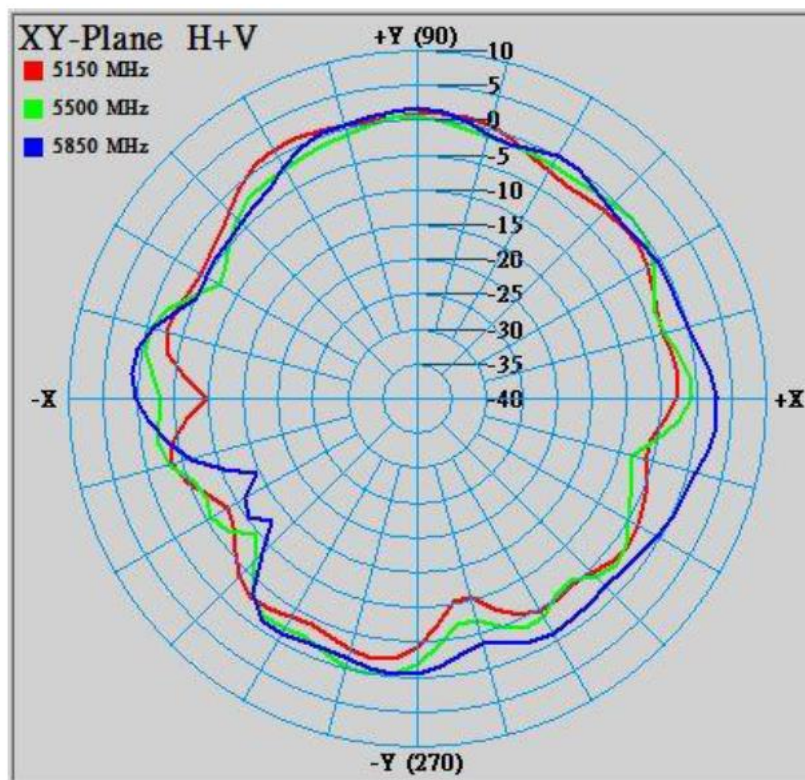
Phi=90.00deg



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SCALE : N/A	UNIT : mm				
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TITLE : RFDPA100805EMMB401		DOCUMENT NO.			SPEC REV.
					A0

X-Y Plane

Theta=90.00deg



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	0.6	-2.74	1.86	-1.06	1.42	-2.6
5500	0.44	-2.88	2.74	-0.44	0.64	-2.38
5850	2.89	-1.58	2.45	-0.25	2.98	-0.89

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

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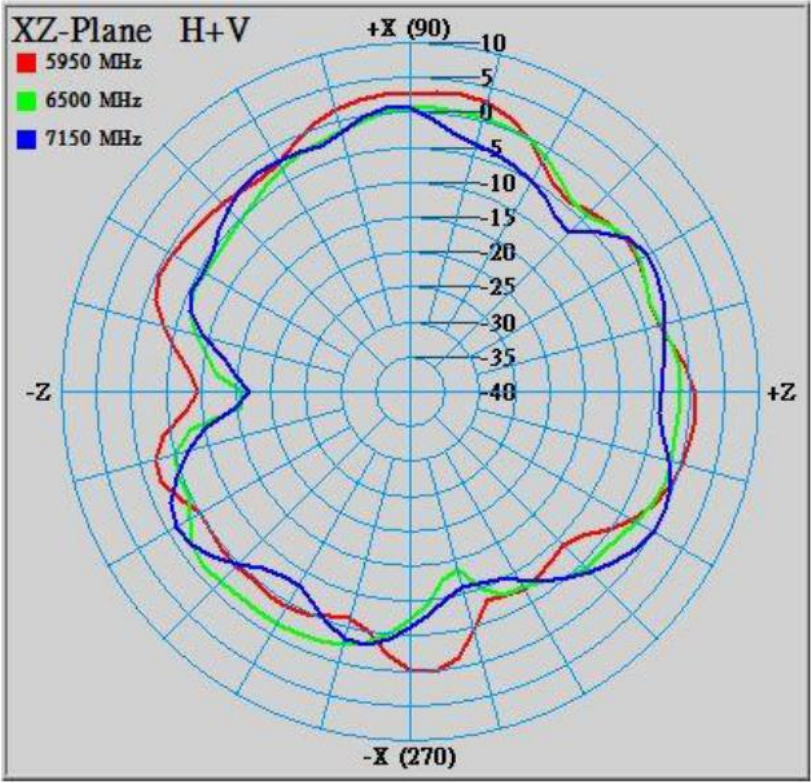
TITLE : RFDPA100805EMMB401

DOCUMENT
NO.SPEC REV.
A0

6G

X-Z Plane

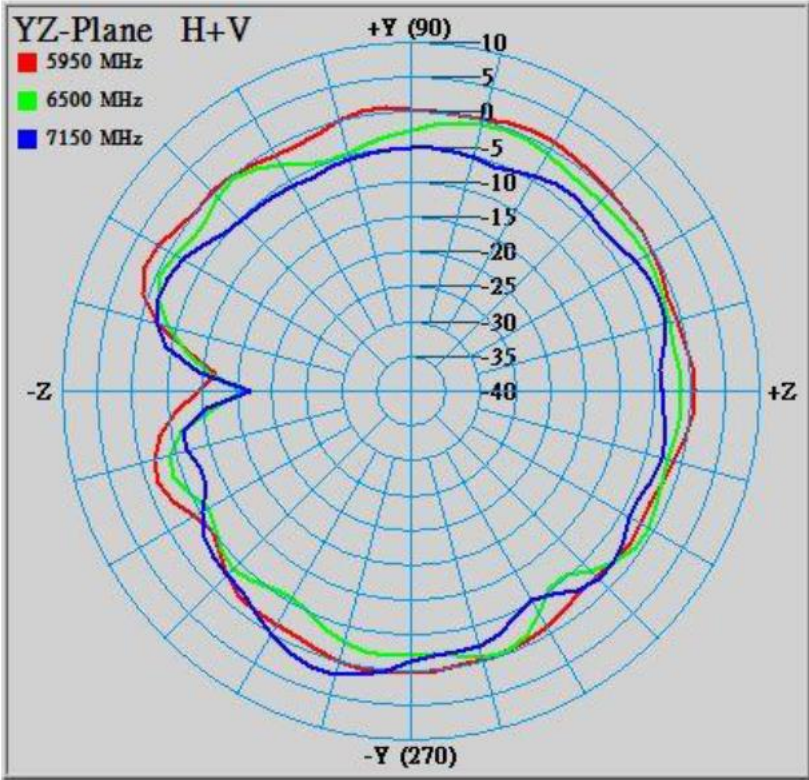
Phi=0.00deg



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.	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			
SCALE : N/A	UNIT : mm					
DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯					
DESIGNED BY : 林儀禎	APPROVED BY : 陳振榮					
TITLE : RFDPA100805EMMB401		DOCUMENT NO.		SPEC REV. A0		

Y-Z Plane

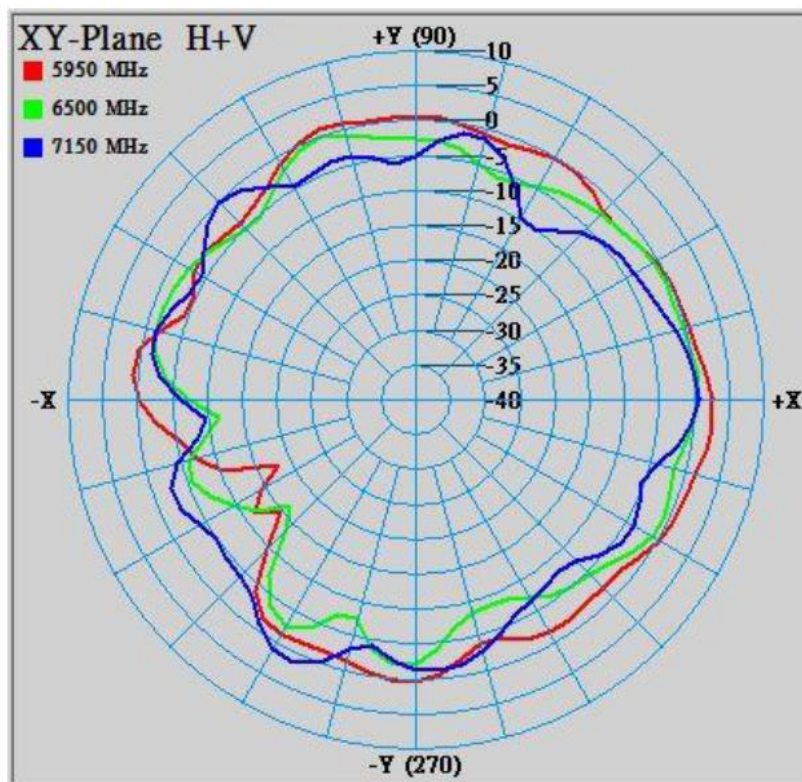
Phi=90.00deg



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	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			
DESIGNED BY : 林儀禎	APPROVED BY : 陳振榮				
TITLE : RFDPA100805EMMB401		DOCUMENT NO.			SPEC REV.
					A0

X-Y Plane

Theta=90.00deg



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5950	3.24	-1.64	2.15	-0.58	2.91	-0.95
6500	0.8	-2.97	-0.11	-2.33	0.76	-3.03
7150	0.87	-3.51	2.17	-3.07	1.6	-2.97

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

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6. Cable Specification

型号 Type	RF-1.13L/50	料号 P/N	SY113L/50-001(Black)
结构图 Structure drawing			
结构特性 Structure characteristics			
结构 Structure	项目 Item	标准值 Standard value	
①内导体 Inner conductor	材料 Material	镀银铜线 Silverplated copper wire	
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	7/0.083	
	(绞合)标称外径(mm) (Intertwist)NOM.O.D.(mm)	0.249±0.02	
②绝缘层 Insulation	材料 Material	聚全氟乙丙烯 FEP	
	颜色 Color	透明 Clarity	
	标称外径(mm) NOM.O.D.(mm)	0.735±0.03	
③外导体 Outer conductor	材料 Material	铜塑箔 Cu-plastic composite tape	
	组成:厚度(mm)×宽度(mm) Makeup:thickness(mm)×width(mm)	0.012×2.5	
	标称外径(mm) NOM.O.D.(mm)	0.759±0.03	
	覆盖率(%) Coverage ratio(%)	100	
④外导体 Outer conductor	材料 Material	镀锡铜线 Tinned copper wire	
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	4/0.05	
	标称外径(mm) NOM.O.D.(mm)	0.96±0.05	
	覆盖率(%) Coverage ratio(%)	90±5	
⑤护套层 Jacket	材料 Material	聚全氟乙丙烯 FEP	
	颜色 Color	黑 Black	
	标称外径(mm) NOM.O.D.(mm)	1.15±0.05	
电性能特性 Electrical characteristics			
项目 Item	标准值 Standard value	项目 Item	标准值 Standard value 单位 Unit: dB/m
电容(pF/m) Capacitance(pF/m)	98	衰减 Attenuation	1GHz ≤1.88
速率(%) Velocity(%)	70		2GHz ≤2.55
阻抗(Ω) Impedance(Ω)	50±2		3GHz ≤3.05
驻波比 Standing wave ratio	≤1.3@0~6GHz		4GHz ≤3.52
最大工作电压(V) Max.operating voltage(V)	1000		5GHz ≤4.05
最大工作频率(GHz) Max.operating frequency(GHz)	6		6GHz ≤4.4
可靠性 Dependability			
项目 Item	单位 Unit	标准值 Standard value	
最小弯曲半径(一次) Min.bending radius static	mm	4	
最小弯曲半径(重复) Min.bending radius repeated	mm	—	
工作温度范围 Operating temperature	℃	-55~+200	
包装 Packing			
项目 Item	单位 Unit	标准值 Standard value	
包装方式 Packing mode	/	纸盘 Papery plate	
每盘长度 The length of each plate	m	500	
每盘接头数 Each connector plate number	/	≤3	
每段最短长度 The shortest length of each root	m	≥10	
使用提示 Use tips			
存储环境 Storage environment	温度: 30℃以下; 湿度: 20%~65%		
最佳保存周期 The best save cycle	2个月; 2个月以上作业性下降, 如上锡效果变差, 但电性能不受影响。夏季高温高湿环境开剥后需尽快流转		
加工温度 Processing temperature	260℃的极限情况下, 可短时间承受; 300℃以上分子通常带有的等端基会分解; 400℃以上发生显著的热分解		
铁氟龙收缩 Teflon Shrink	固有材料特性。绝缘: 0.2mm以下; 护套: 0.3mm以下		
护套窜动 Jacket traverse	加工长度(护套残留长度) 低于5cm易发生		
其他 Other			
特殊加工工艺, 请与供方协商后使用			

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 : 林儀禎

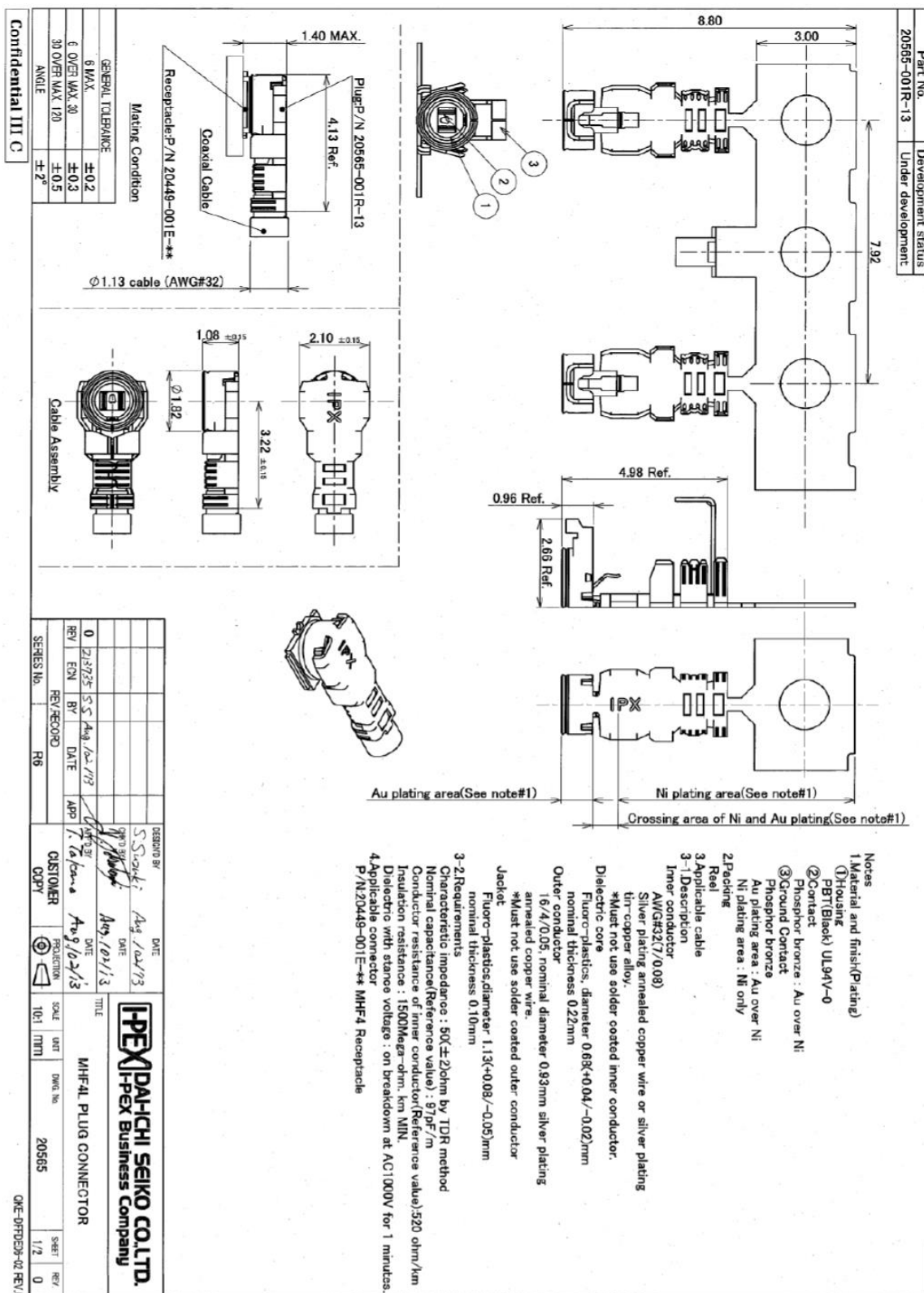
APPROVED BY : 陳振榮

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7. Connector Specification



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

DRAWN BY : 李欣樺

CHECKED BY : 詹惠愛

DESIGNED BY : 林儀禎

APPROVED BY : 陳振榮

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DOCUMENT NO.

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Part No. 20565-001R-13

Applicable cable strip dimension

Note 1

Braided shield of Outer conductor

Single braided shield

P/N of semi auto termination machine 90600-013

Crimp Height

Note 2

CH-1(Fit Part) : 1.07~1.11

CH-2(Shield Part) : 0.90~0.94

CH-3(Jacket Part) : 1.16~1.20

Notes

1. Must not use solder coated inner conductor and outer conductor
2. Use for point micrometer.
3. Mating and unmating instruction

3-1 Mating

Make the corrector vertically as much as possible, adjusting the mating axis of plug and receptacle. Do not slant mate.

3-2 Unmating

3-2-1 In case of unmating by pulling tool (P/N90606-0001)

Use the pulling tool as the following drawing, and pull plug to vertical direction as directly as possible.

3-2-2 In case of unmating directly by hand.

Catch the catching area of plug, and pull plug to vertical direction as directly as possible.

Note 3-1

Note 3-2-1

Note 3-2-2

Note 3-2-2

Catching area

GENERAL TOLERANCE

6 MAX.	±0.2
8 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

DESIGNED BY	DATE	CHECKED BY	DATE
REV.	ECON.	BY	DATE
REV/RECORD	APP	DATE	APP
SERIES No.	CUSTOMER COPY	PRODUCTION	SCALE
101	UNIT	DWG. No.	20565
2/2	REV.	0	

MPH-4L PLUG CONNECTOR

IP-PEX I-PEX Business Company

IP-PEX I-PEX Business Company

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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TITLE : RFDPA100805EMMB401		DOCUMENT NO.	SPEC REV.	
			A0	