



品名：RFDPA171300SBLB801

客戶料號：CKP-32505-006200-100-RS

### 1. Explanation of part number :

RF	DPA	1713	00	S	B	L	B	8	01
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width 13mm	2 digits for cable length e.g.: 00 None Cable	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 <b>N: None</b>	<b>0: 0GHz</b> <b>3: 3GHz</b> <b>5: 5 GHz</b> <b>6: 6GHz</b> A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.x GHz tri-band <b>N: NFC</b> <b>T:LTE band</b> <b>W: WCDMA band</b>	B: MP <b>T:During Test</b> X: Pile Run	0:None 1:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

### 2. Electrical Specification :

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz (Note-1)
Peak Gain	2.4 ~ 2.5 GHz @ 2.22 dBi 5.15 ~ 5.85 GHz @ 4.29 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-40℃ ~ +75℃
Storage Temperature	-40℃ ~ +85℃

If the operating or storage temperature is higher than 70 ° C, the antenna cover may be deformed by external load or gravity.

With slight deformation of the antenna cover, the antenna can maintain normal operation.

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 : 邱瑩鈺

CHECKED BY : 詹惠雯

DESIGNED BY :

APPROVED BY : 陳振榮

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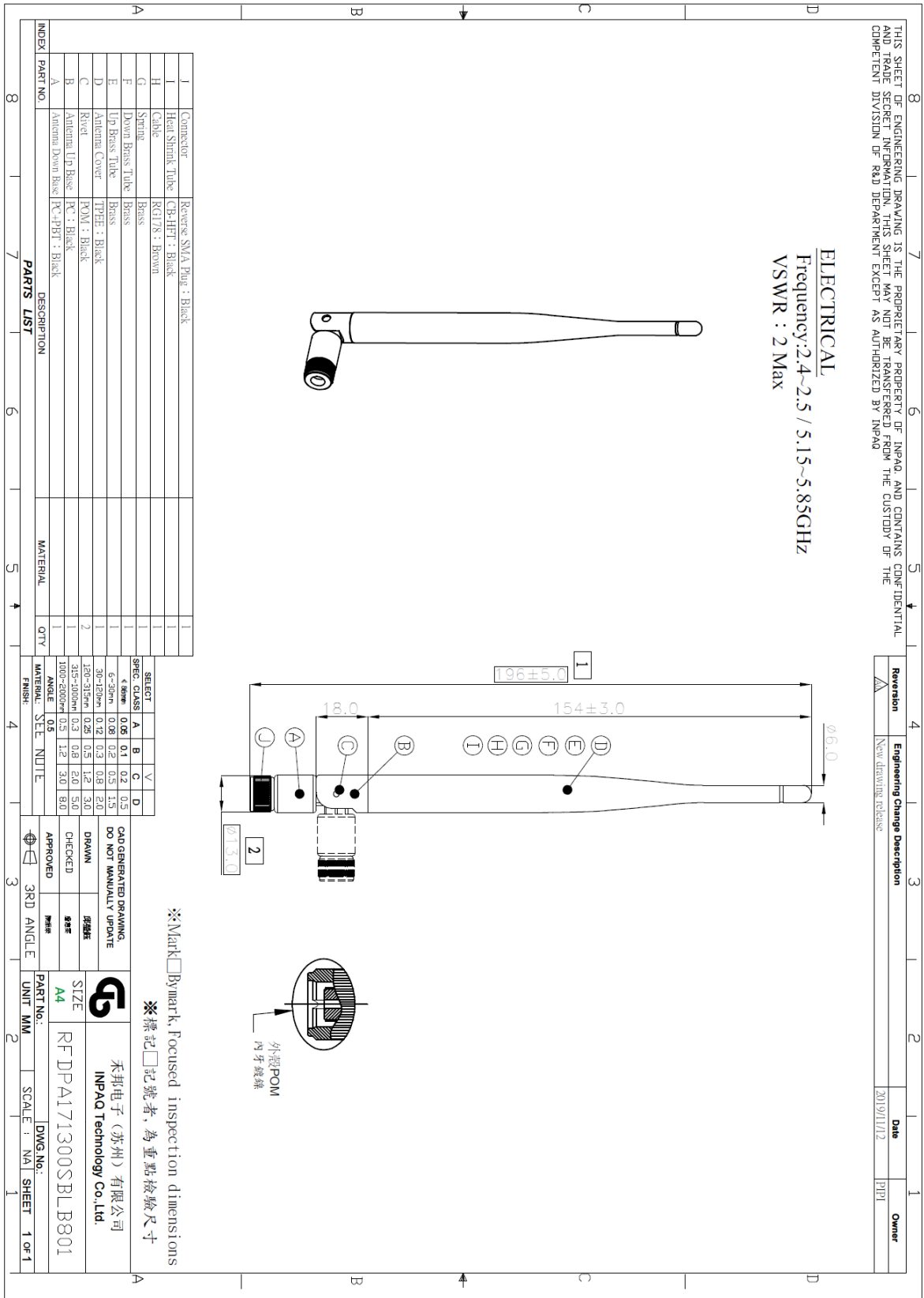
TITLE : RFDPA171300SBLB801

DOCUMENT NO.

ENS070001810-000821101778

SPEC REV.  
**A2**

### 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  
DRAWN BY : 邱發鈺  
DESIGNED BY :

UNIT : mm  
CHECKED BY : 詹惠愛  
APPROVED BY : 陳振榮

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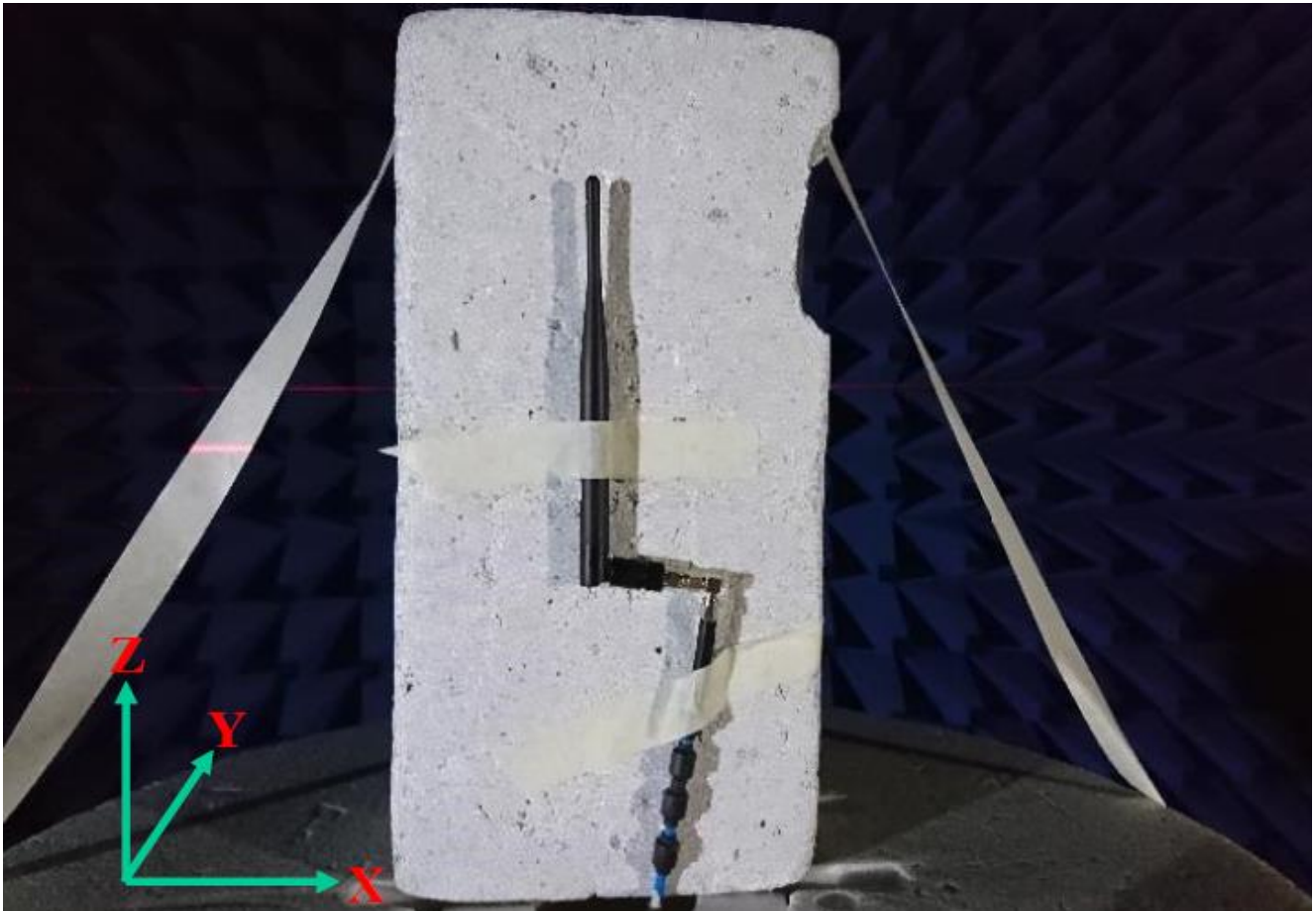
4. Photo :




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 : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY :	APPROVED BY : 陳振榮		
TITLE : RFDPA171300SBLB801		DOCUMENT NO.	ENS070001810-000821101778
			SPEC REV. A2

## 5. Test Report

### Experimental Setup



UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A      X.X=N/A      X.XX=N/A ANGLES=N/A      HOLEDIA=N/A		 <b>INPAQ TECHNOLOGY CO., LTD.</b>	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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DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY :	APPROVED BY : 陳振榮		
TITLE : RFDPA171300SBLB801		DOCUMENT NO.	ENS070001810-000821101778 SPEC REV. <b>A2</b>

# ELECTRICAL CHARACTERISTICS

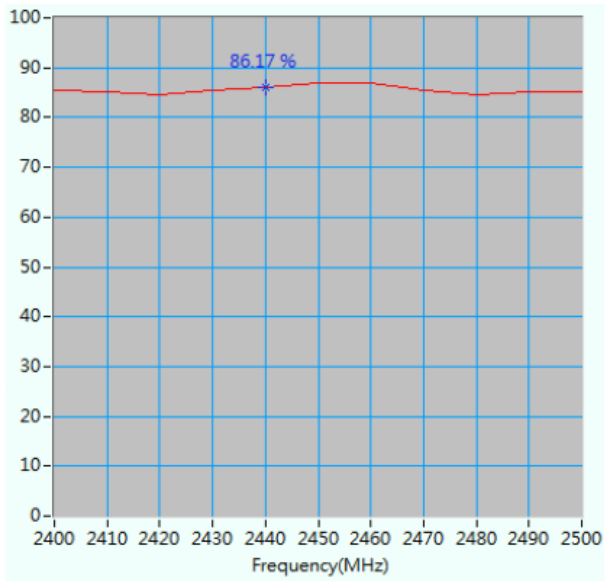
## Return Loss & Isolation



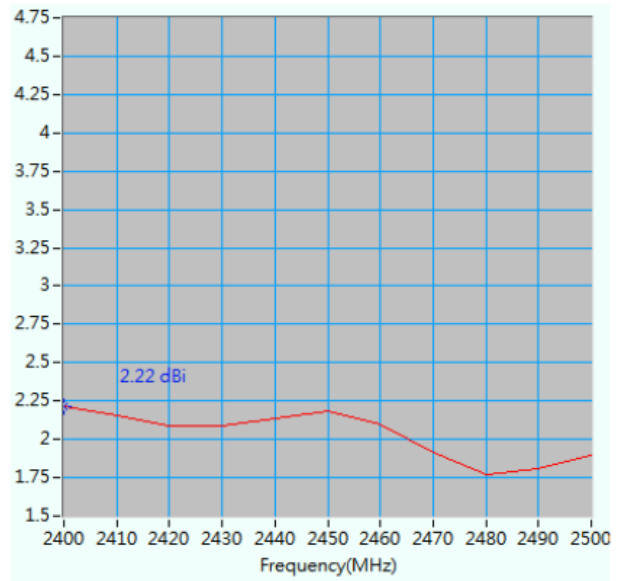
10dB-Return Loss

UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A      X.X=N/A      X.XX=N/A ANGLES=N/A      HOLEDIA=N/A			<b>INPAQ TECHNOLOGY CO., LTD.</b>
SCALE : N/A	UNIT : mm		
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY :	APPROVED BY : 陳振榮		
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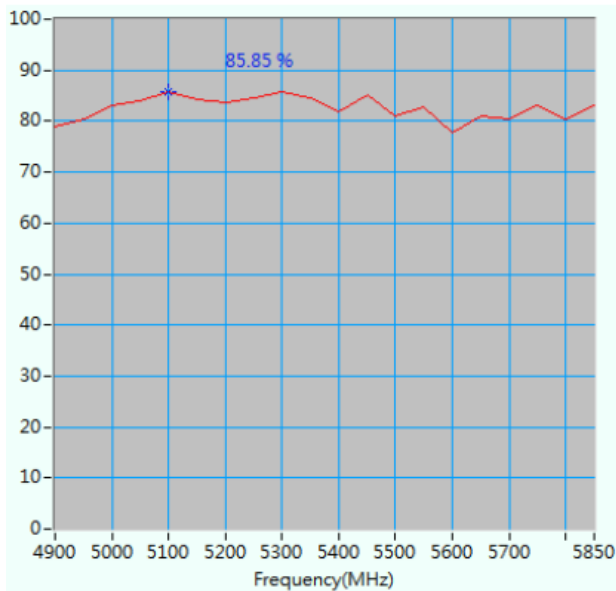
## Efficiency & Peak Gain



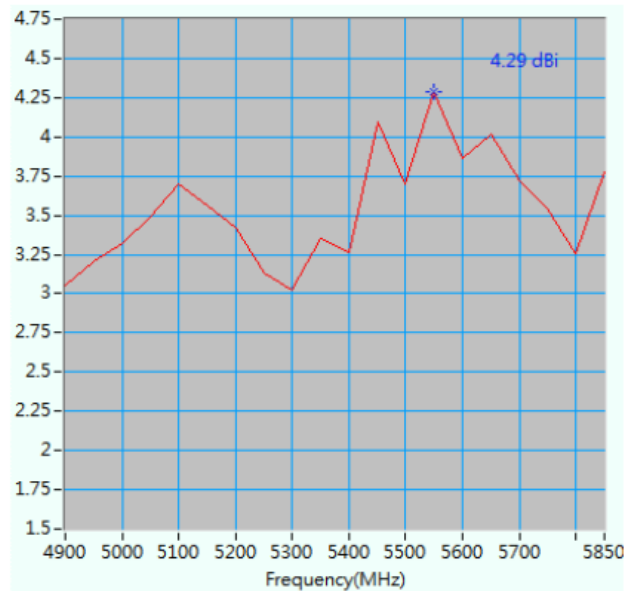
Maximum Efficiency at 2440 MHz : 86%



Maximum Efficiency at 2400 MHz : 2.22 dBi



Maximum Efficiency at 5100 MHz : 85 %



Maximum Efficiency at 5550 MHz : 4.29 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 : 邱瑩鈺

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ANT		
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2.4	85	2.21
2.45	86	2.18
2.5	85	1.89
4.9	79	3.05
5.15	84	3.56
5.3	83	3.00
5.55	82	4.29
5.85	83	3.77

UNLESS OTHER SPECIFIED TOLERANCES ON : X = N/A      X.X = N/A      X.XX = N/A ANGLES = N/A      HOLEDIA = N/A			<b>INPAQ TECHNOLOGY CO., LTD.</b>	
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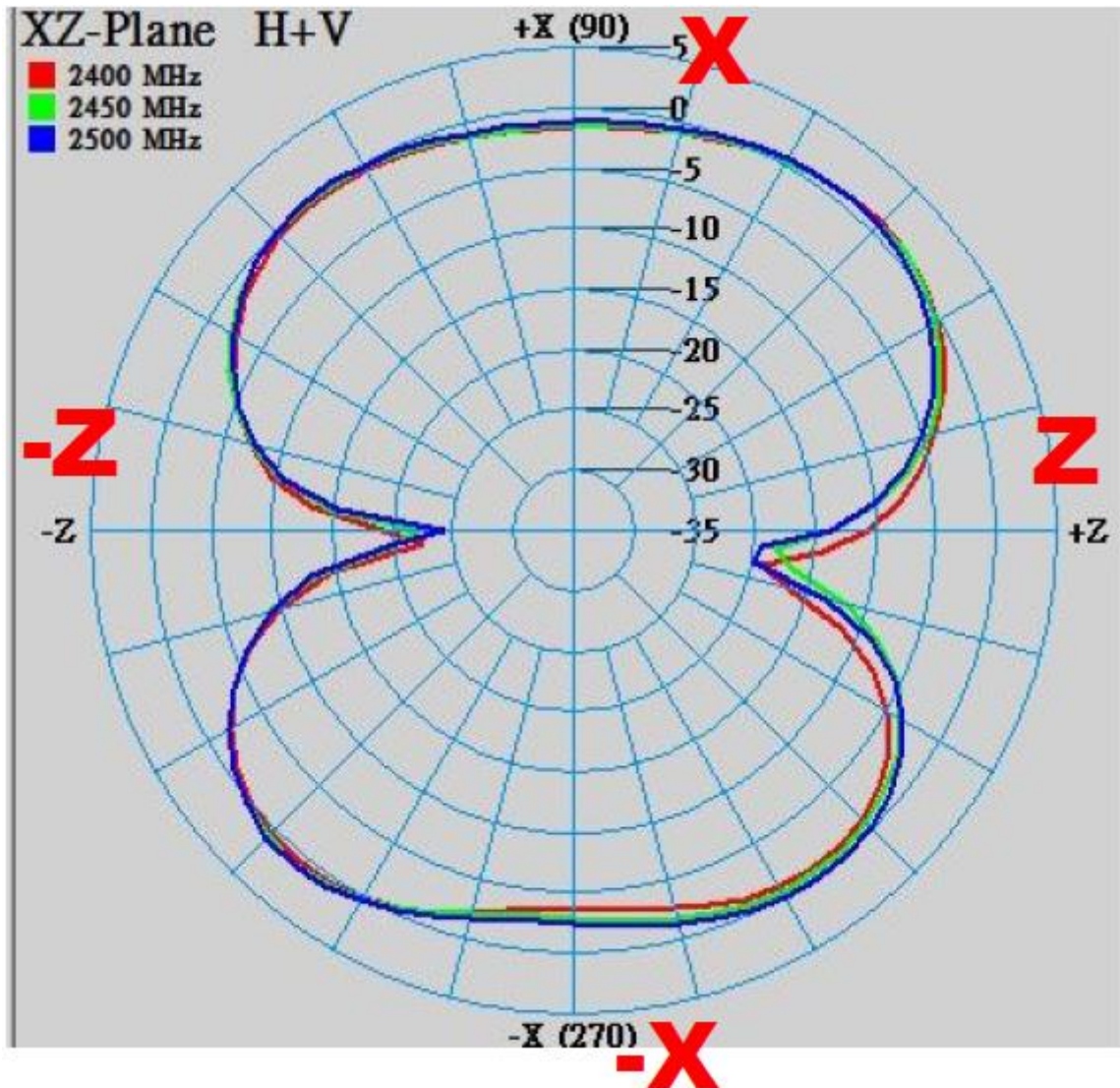
# Radiation Patterns


2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB

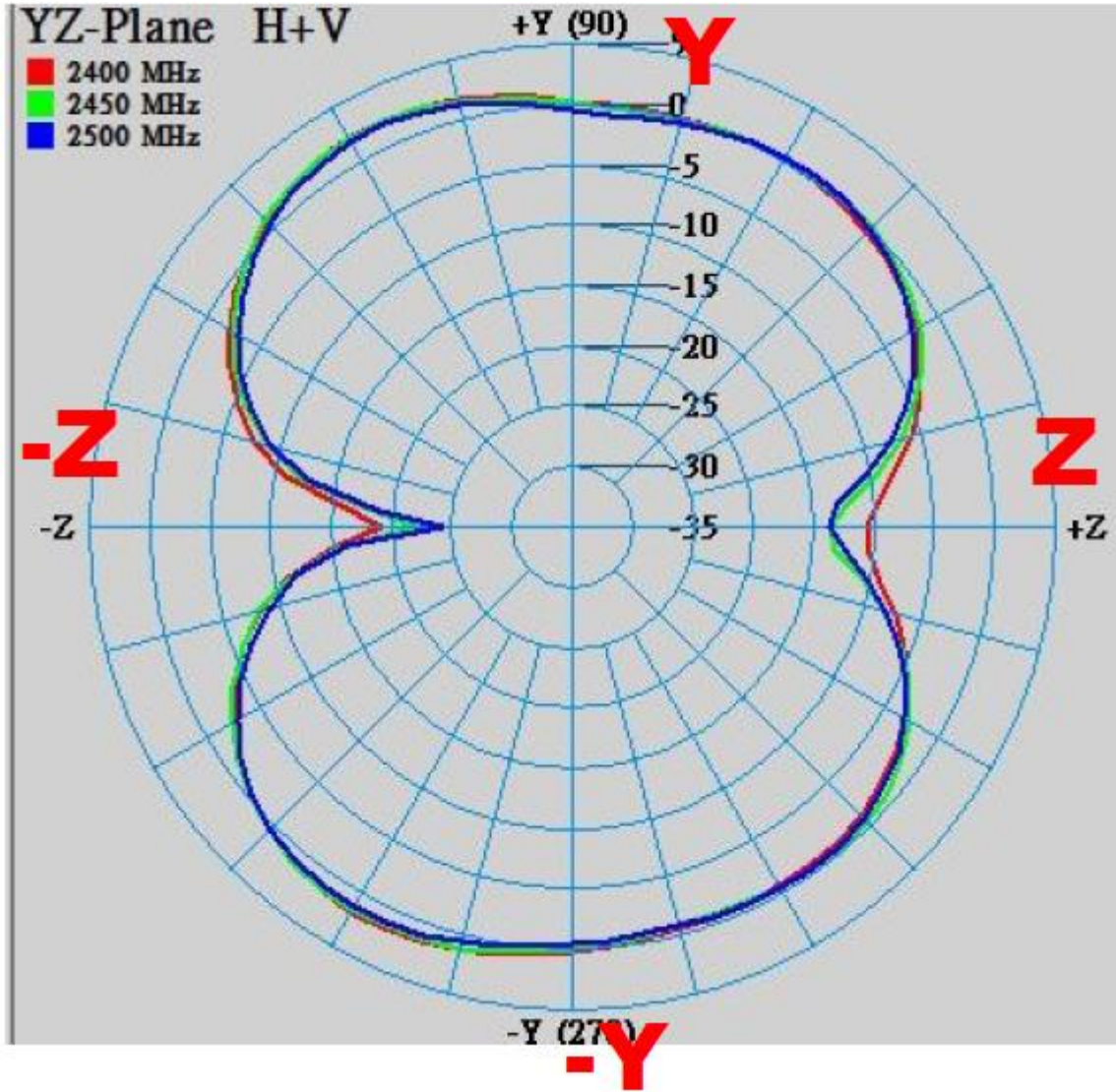


UNLESS OTHER SPECIFIED TOLERANCES ON :		 <b>INPAQ TECHNOLOGY CO., LTD.</b>
X=N/A	X.X=N/A      X.XX=N/A	
ANGLES=N/A      HOLEDIA=N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
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DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯	
DESIGNED BY :	APPROVED BY : 陳振榮	
TITLE : RFDPA171300SBLB801		DOCUMENT NO. ENS070001810-000821101778
		SPEC REV. <b>A2</b>

Y-Z Plane

Phi=90.00deg

Gain . dB



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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A      UNIT : mm  
 DRAWN BY : 邱瑩鈺      CHECKED BY : 詹惠雯  
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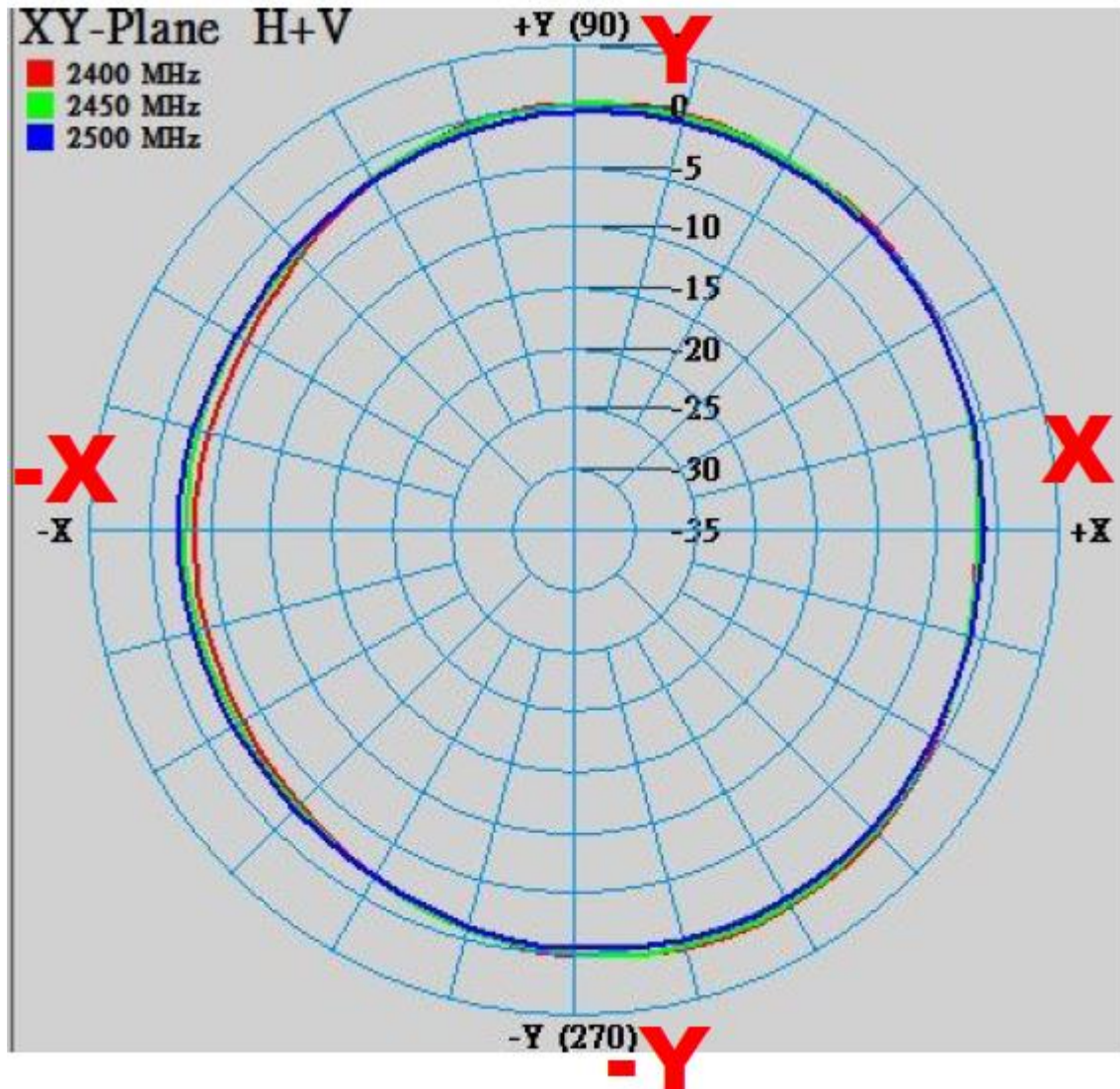
DOCUMENT NO. ENS070001810-000821101778

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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.04	-2.08	2.17	-1.06	0.82	-1.04
2450	1.01	-1.86	2.13	-1.07	0.64	-0.99
2500	1.06	-1.76	1.83	-1.39	0.11	-1.16

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



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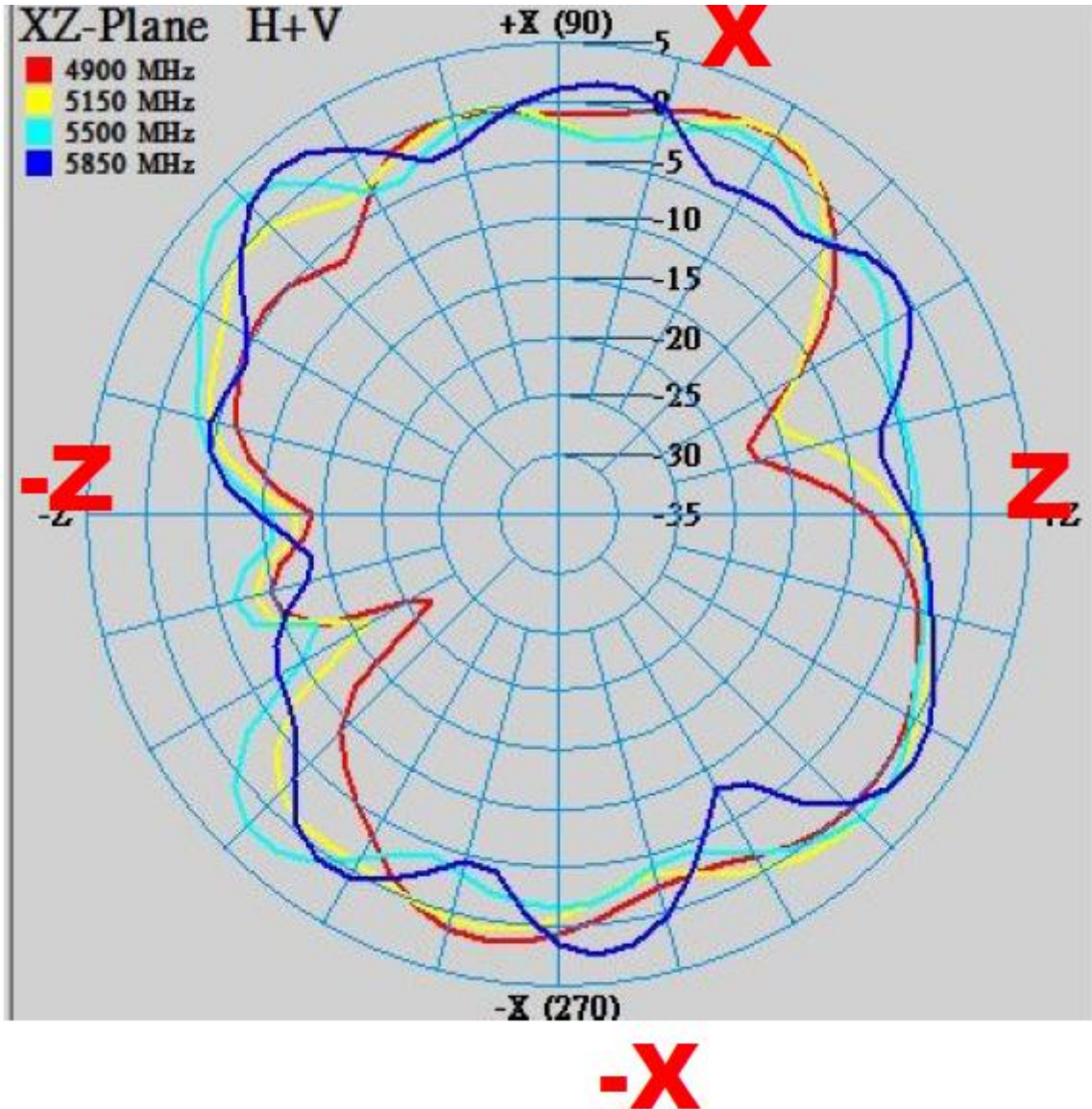
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5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB

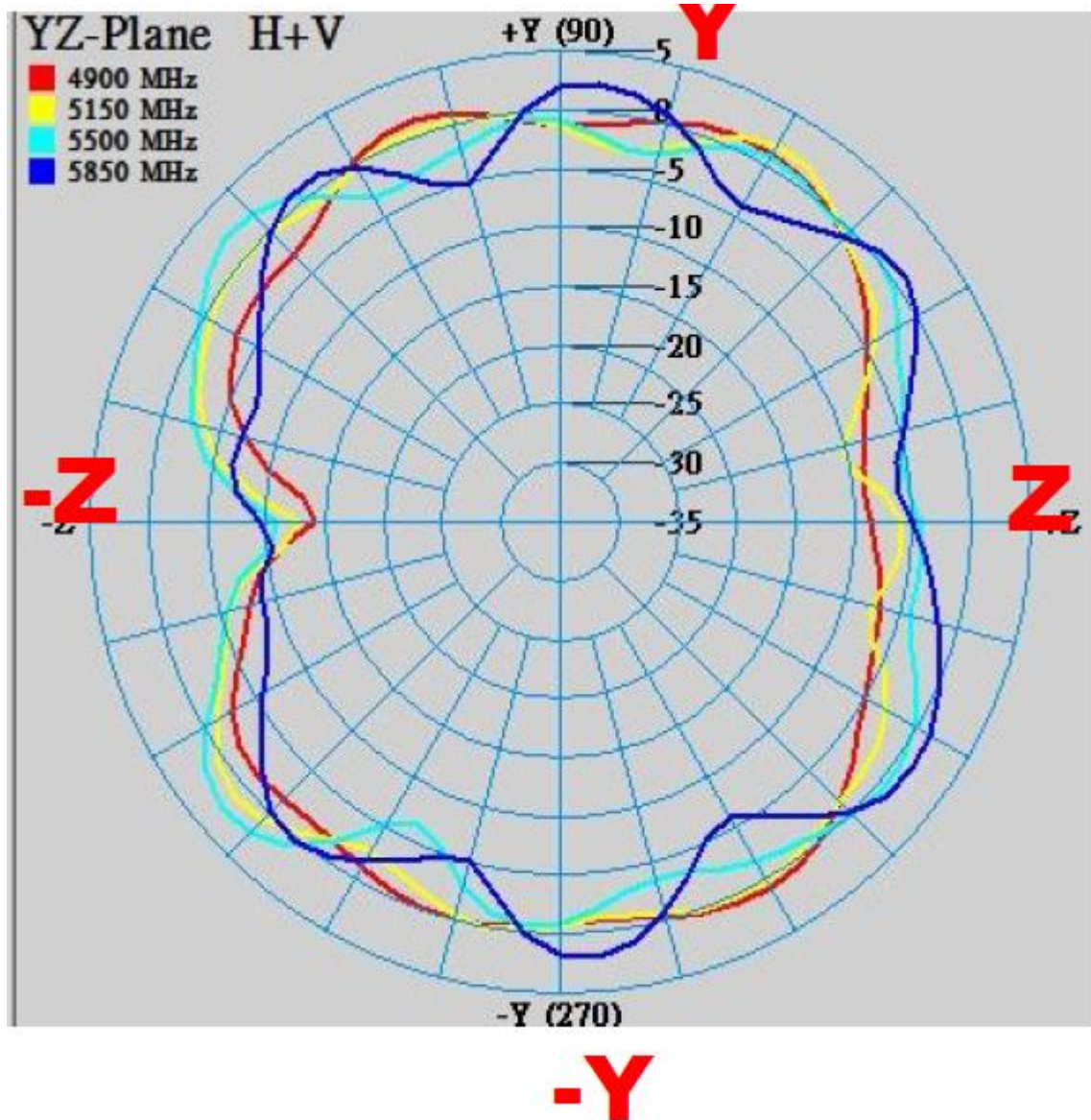



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Y-Z Plane

Phi=90.00deg

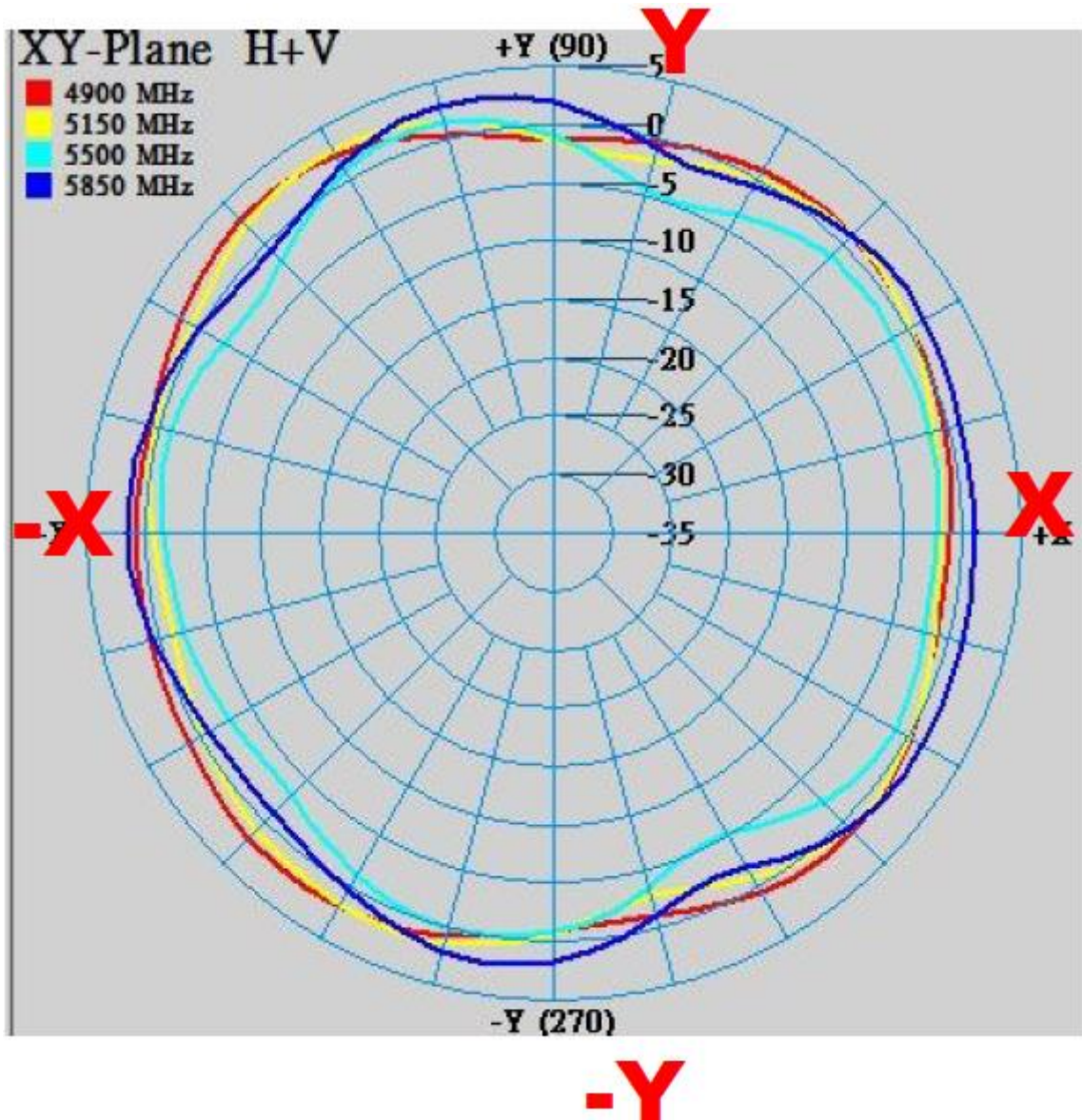
Gain . dB



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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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TITLE : RFDPA171300SBLB801		DOCUMENT NO.	ENS070001810-000821101778
		SPEC REV. <b>A2</b>	

X-Y Plane  
Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
4900	1.98	-2.50	1.31	-1.95	2.87	0.67
5150	2.33	-1.91	1.91	-1.62	2.86	0.20
5500	3.14	-1.56	2.74	-1.44	1.48	-1.69
5850	2.78	-1.60	2.30	-1.70	2.89	0.73

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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# Package

RFDPA171300SBLB801 製品工程表	頁次： 4 之 3	
	規章編號：S37-S-1081	版次：B版
	制修訂日期：2017/8/2	

## 六 包裝圖

圖一



圖二



圖三



### 產品包裝規範：

- 1.將每10pcs產品裝入PE袋內，再將小PE袋封口並在PE袋上方粘貼製造標籤，如圖示（一）
- 2.將珍珠棉放入外箱中(如圖示二)
- 3.將裝好的成品(如圖示三)放入外箱中，每箱放600pcs產品，上下各放1片珍珠棉，外箱需貼製造標。
- 4.製造標需貼到最小包裝。


製造標籤圖示：實物標籤內容僅作參考 具體內容以出貨料號為準



- (NO 1): Spec desc.
- (NO 2): 料號 批號 數量(PN & LOT & QTY)
- (NO 3): 盤點條碼(Inventory check barcode)
- (NO 4): 列印時間-總張數(print system time-total piece this print)
- (NO 5): 表示 BULK LOT
- (NO 6): 表示該張標籤流水序號

標籤注釋權屬華科電子有限公司

核准：	何耀輝	審核：	尤印化	制定：	袁蕊蕊
-----	-----	-----	-----	-----	-----

UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A      X.X=N/A      X.XX=N/A ANGLES=N/A      HOLEDIA=N/A		 <b>INPAQ TECHNOLOGY CO., LTD.</b>
SCALE : N/A	UNIT : mm	
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