

APPROVAL SHEET

Dipole ANTENNA

2 / 6 GHz Working Frequency

P/N: RFDPA112116IMLB701

Customer :

Customer 's Part No. :

Approval No. :

Issue Date :

品名：RFDPA112116IMLB701

1. Explanation of part number :


RF	DPA	1121	16	I	M	L	B	7	01
Type Code	Product Code	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.: 1410 Length 143.8mm, Width 10mm	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: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 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:∅ 0.81 3:∅ 1.13 6:RG316 7:∅ 1.37 8:RG178	01-99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2 / 6 GHz
VSWR	< 1.67
Return loss	< -12 dB
Operation Temperature	-20°C ~ +65°C

Gain table

2.4G		6G	
freq	ANT2	freq	ANT2
2400000000	1.565	5925000000	1.818
2450000000	1.476	6225000000	1.787
2500000000	1.602	6525000000	1.828
		6825000000	1.195
		7125000000	2.291

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	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 : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448
		SPEC REV. A0	

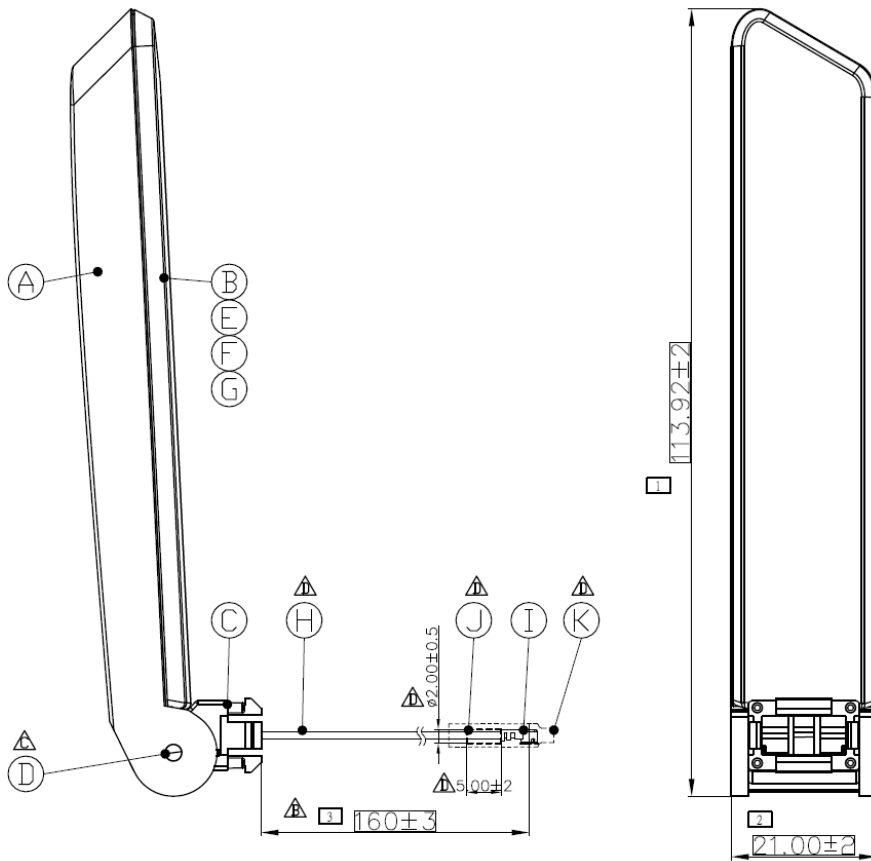
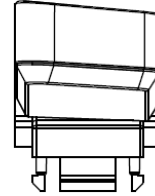
3. Drawing :

ELECTRICAL

Frequency : 2 / 6 GHz



NO	DESCRIPTION	DESCRIPTION ; MAT'L ; Color	QTY	REMARK
A	Antenna Cover-1	ABS ; Black	1	
B	Antenna Cover-2	ABS ; Black	1	
C	Antenna Base	PC+PBT ; Black	1	
D	Rivet	△ Brass ; Black	2	
E	Up Brass Tube	Brass	1	
F	Down Brass Tube	Brass	1	
G	Heat Shrink Tube	Black	1	
H	Cable	(Ø1.37) ; Black △	1	
I	Connector	IPEX ; Gold	1	721215007739
△ J	Heat Shrink Tube	Red	1	
△ K	Safe Shesth	L20mm;Transparent	1	



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 : 夏振恩 APPROVED BY : 陳振榮

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

TITLE : RFDPA112116IMLB701

DOCUMENT NO. ENS070024570-000821109448

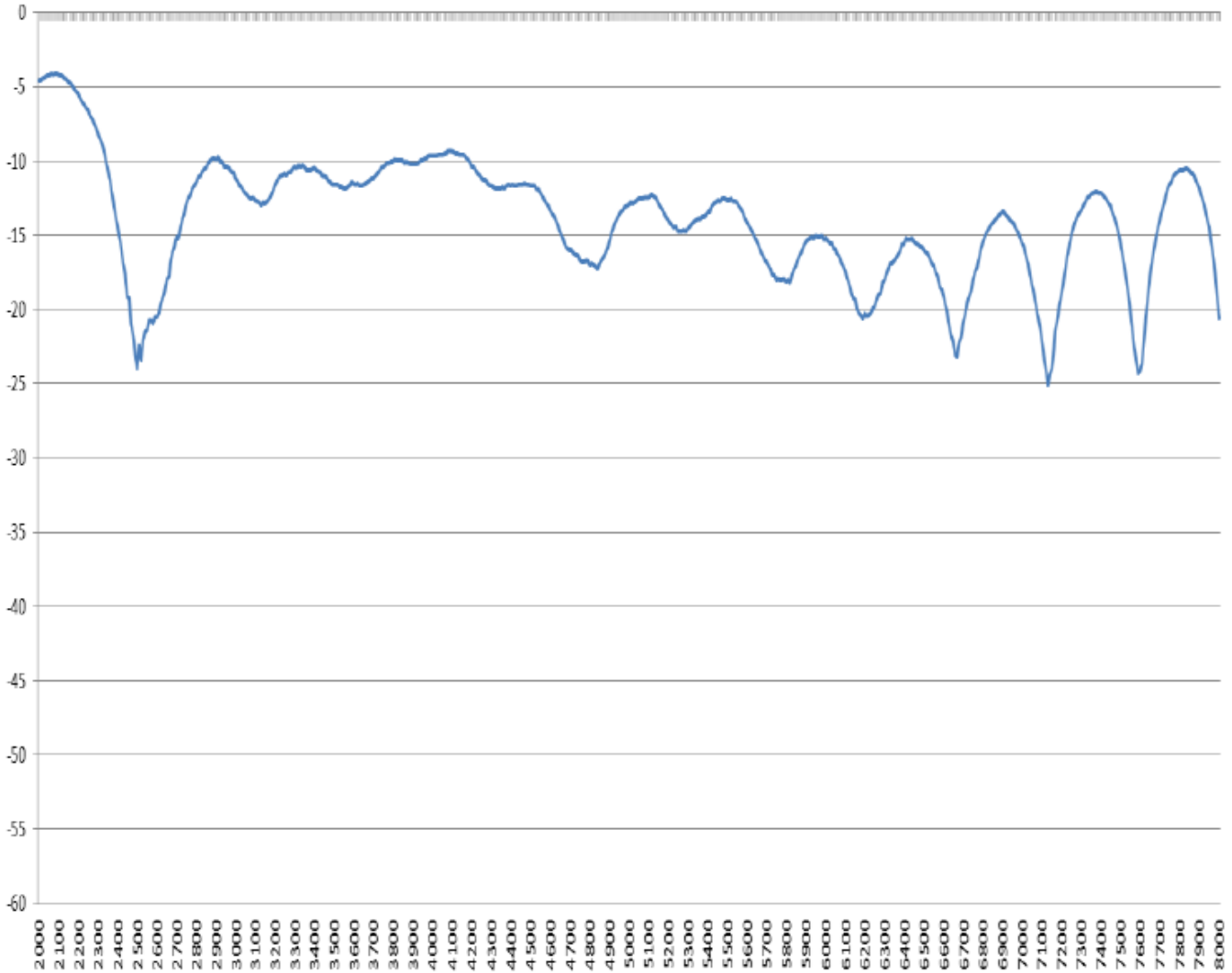
SPEC REV. A0


4. Performance Report :

Test Report

ELECTRICAL CHARACTERISTICS

Return Loss




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	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 : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448
			SPEC REV. A0

		Frequency (GHz)		
		2.4	2.45	2.5
ANT-2	ReturnLoss (dB)	-14.363	-19.127	-23.944

		Frequency (GHz)		
		5.92	6.22	6.52
ANT-2	ReturnLoss (dB)	-15.232	-20.378	-16.220

		Frequency (GHz)	
		6.82	7.12
ANT-2	ReturnLoss (dB)	-14.789	-24.060

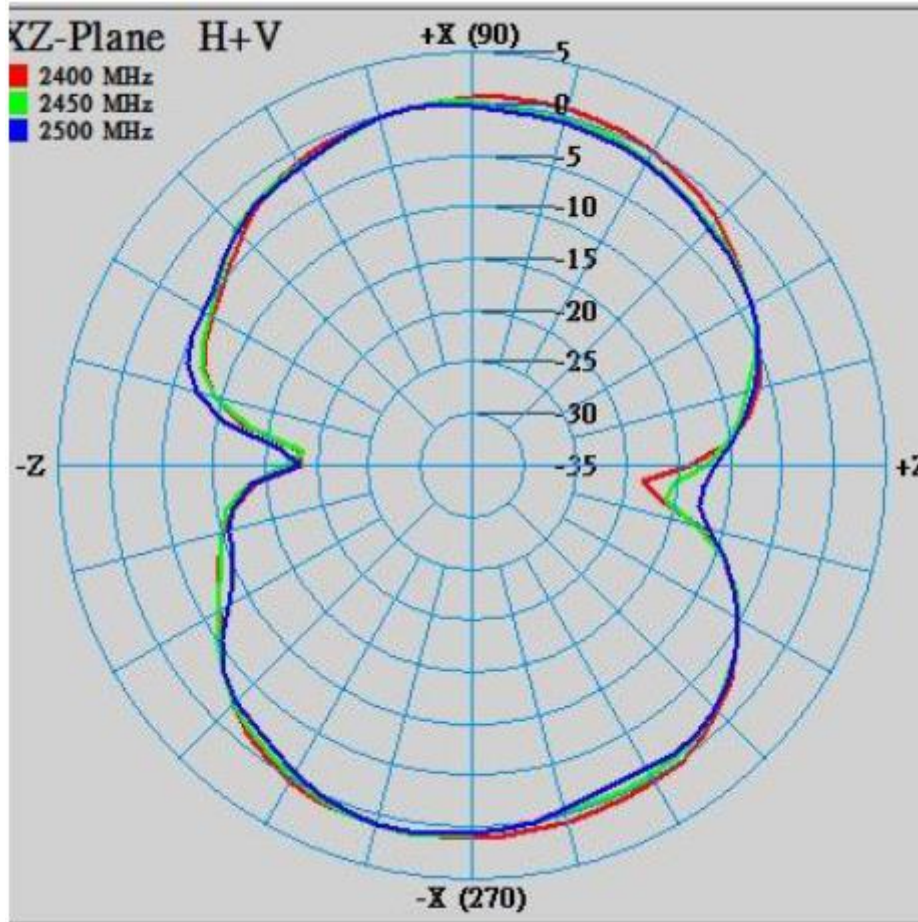
UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A		 INPAQ TECHNOLOGY CO., LTD.	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
SCALE : N/A	UNIT : mm		
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448 SPEC REV. A0


RADIATION PATTERN

2 GHz

X-Z Plane
Phi=0.00deg

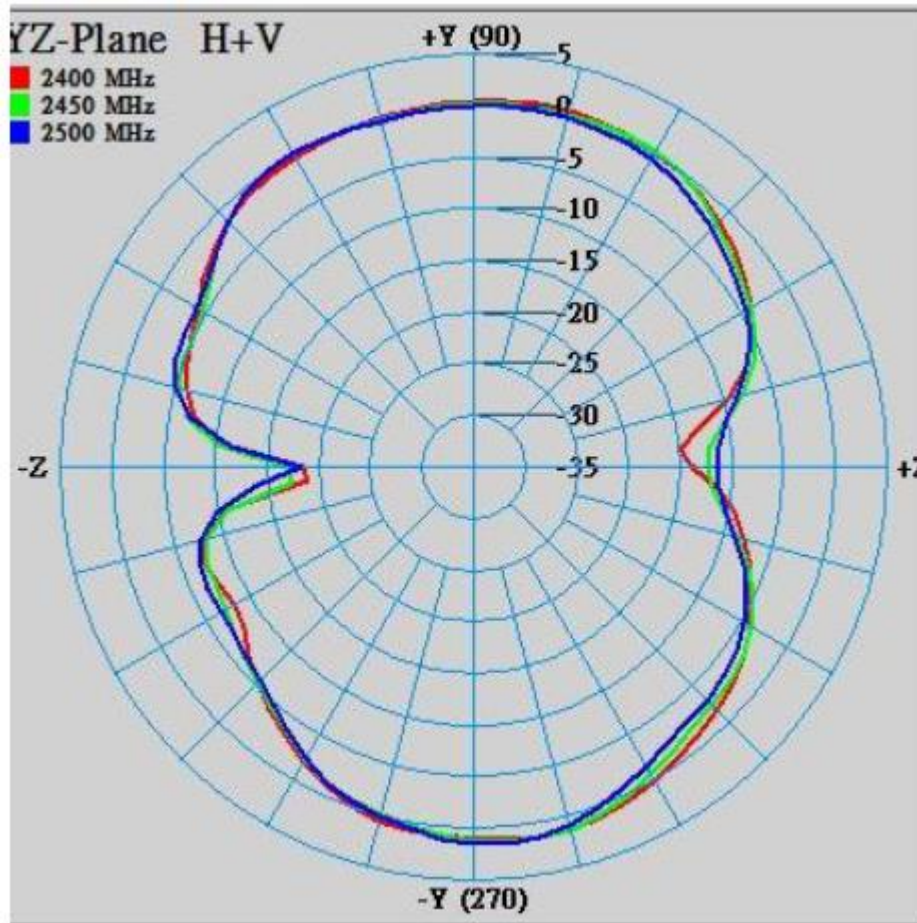
Gain . dB




UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
X = N/A	X.X = N/A X.XX = N/A		
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	
SCALE : N/A	UNIT : mm		
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448
			SPEC REV. A0

Y-Z Plane
Phi=90.00deg

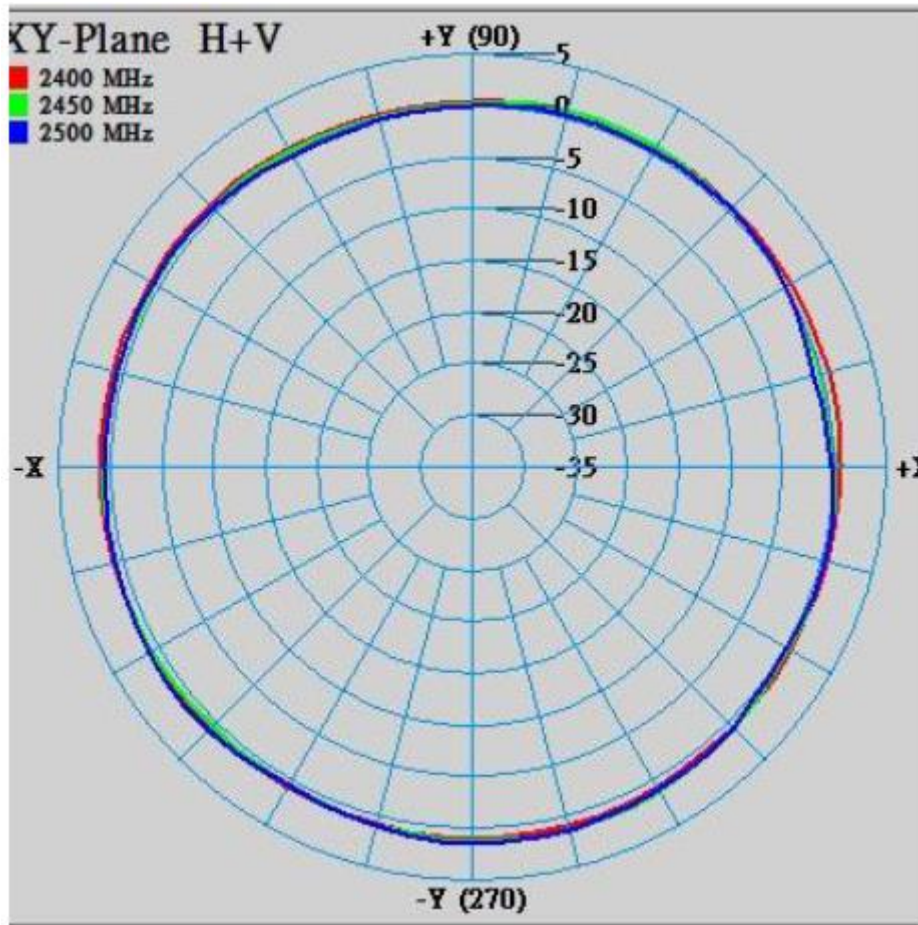
Gain . dB




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	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 : 夏振恩	APPROVED BY : 陳振榮	
TITLE : RFDPA112116IMLB701		DOCUMENT NO. ENS070024570-000821109448
		SPEC REV. A0

X-Y Plane
Theta=90.00deg

Gain . dB



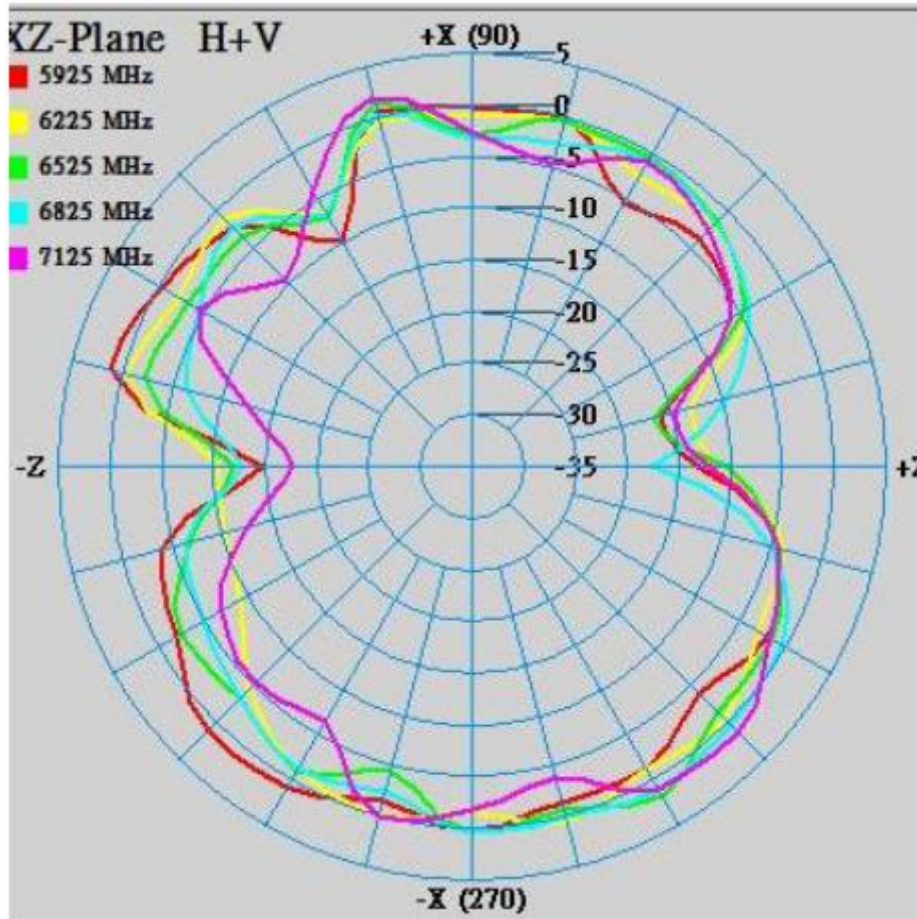
Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.025	-2.022	1.565	-2.046	1.021	0.716
2450	1.087	-2.444	1.476	-2.163	1.319	0.543
2500	0.924	-2.619	1.602	-2.373	1.509	0.493


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			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
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯			
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮			
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448	SPEC REV. A0

6 GHz

X-Z Plane
Phi=0.00deg

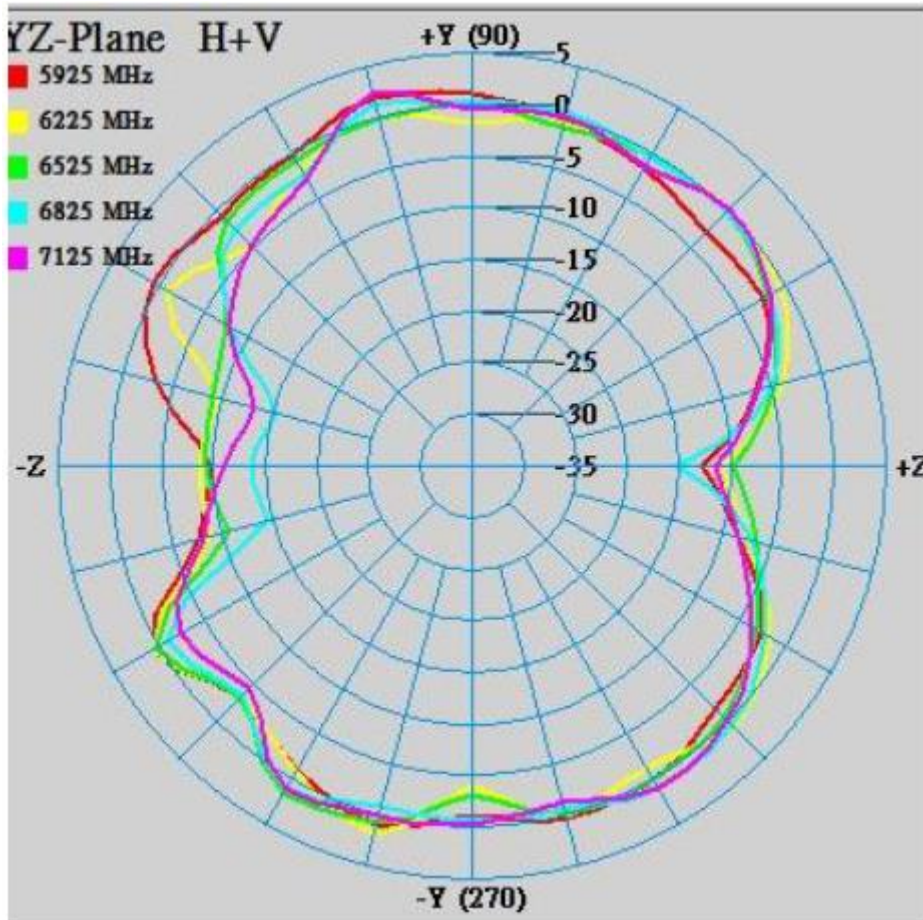
Gain . dB




UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
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	
SCALE : N/A	UNIT : mm		
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮	DOCUMENT NO. ENS070024570-000821109448	
TITLE : RFDPA112116IMLB701			

Y-Z Plane
Phi=90.00deg

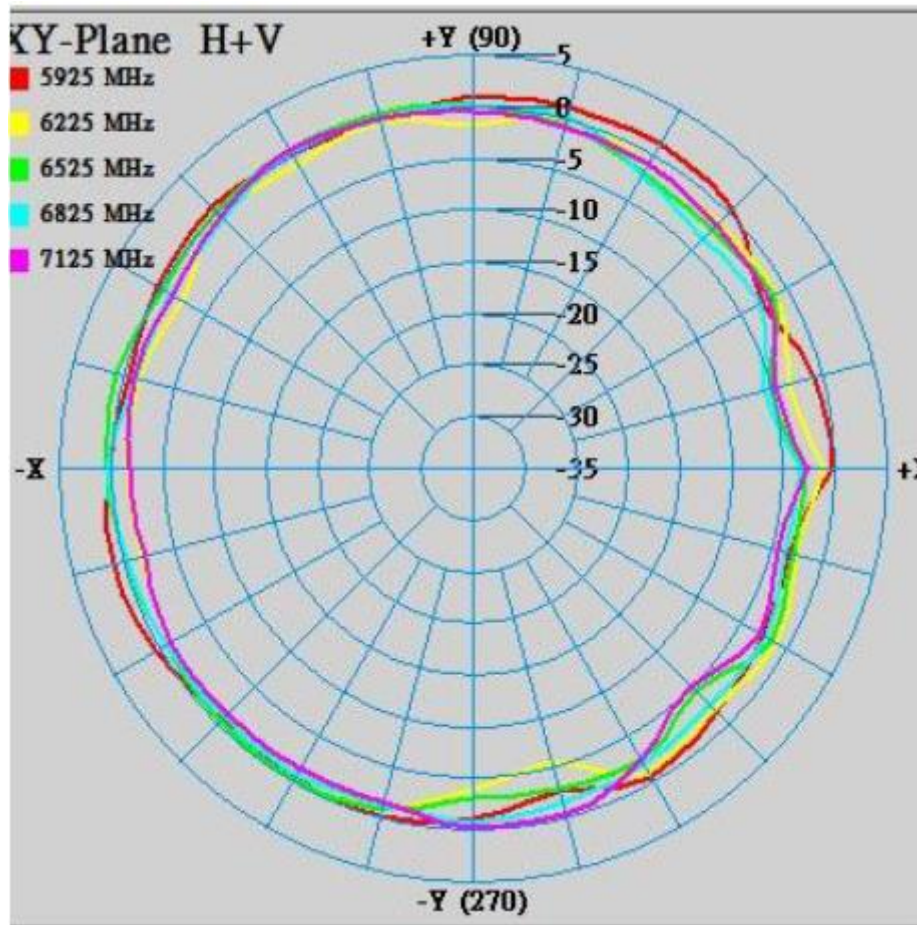
Gain . dB




UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.
X=N/A	X.X=N/A		
ANGLES=N/A		HOLEDIA=N/A	
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	
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯		
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448
			SPEC REV. A0

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]
5925	1.206	-1.975	1.818	-1.414	1.187	-0.325
6225	0.479	-2.496	1.787	-1.759	0.069	-1.446
6525	1.828	-2.262	1.425	-1.81	0.697	-1.106
6825	1.006	-2.494	1.195	-1.763	0.396	-1.343
7125	1.956	-3.175	2.291	-1.954	0.442	-1.519

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			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
DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯			
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮			
TITLE : RFDPA112116IMLB701		DOCUMENT NO.	ENS070024570-000821109448	SPEC REV. A0