

APPROVAL SHEET

Dipole ANTENNA

2 / 6 GHz Working Frequency

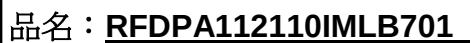
P/N: RFDPA112110IMLB701

Customer :

Customer 's Part No. :

Approval No. :

Issue Date :



History List

PAGE 1 OF 12

品名：RFDPA112110IMLB701

1. Explanation of part number：

RF	DPA	1121	10	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℃ ~ +65℃

Gain table

		6G	
		freq	ANT1
2.4G	freq	5925000000	2.416
	ANT1	6225000000	1.789
	2400000000	6525000000	2.327
	2450000000	6825000000	2.39
	2500000000	7125000000	1.712

1UNLESS 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

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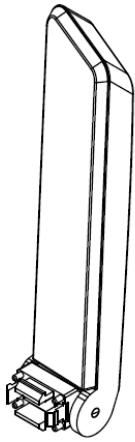
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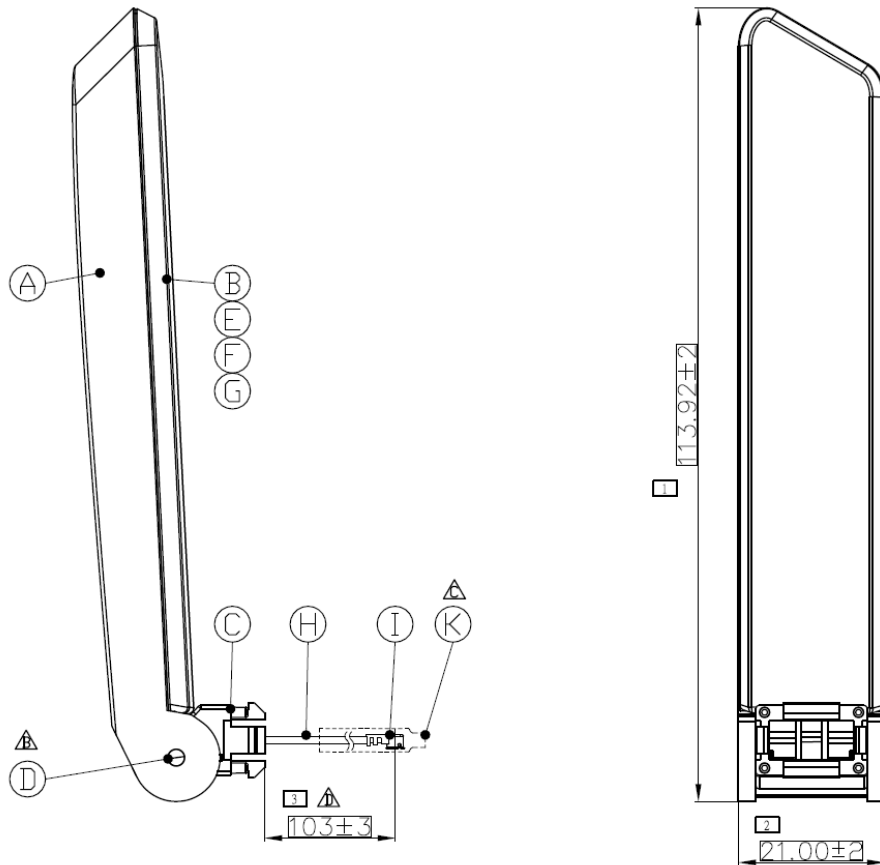
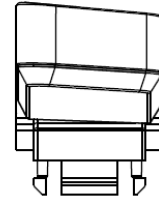
3. Drawing :

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	Safe Sheth	L20mm;Transparent	1	



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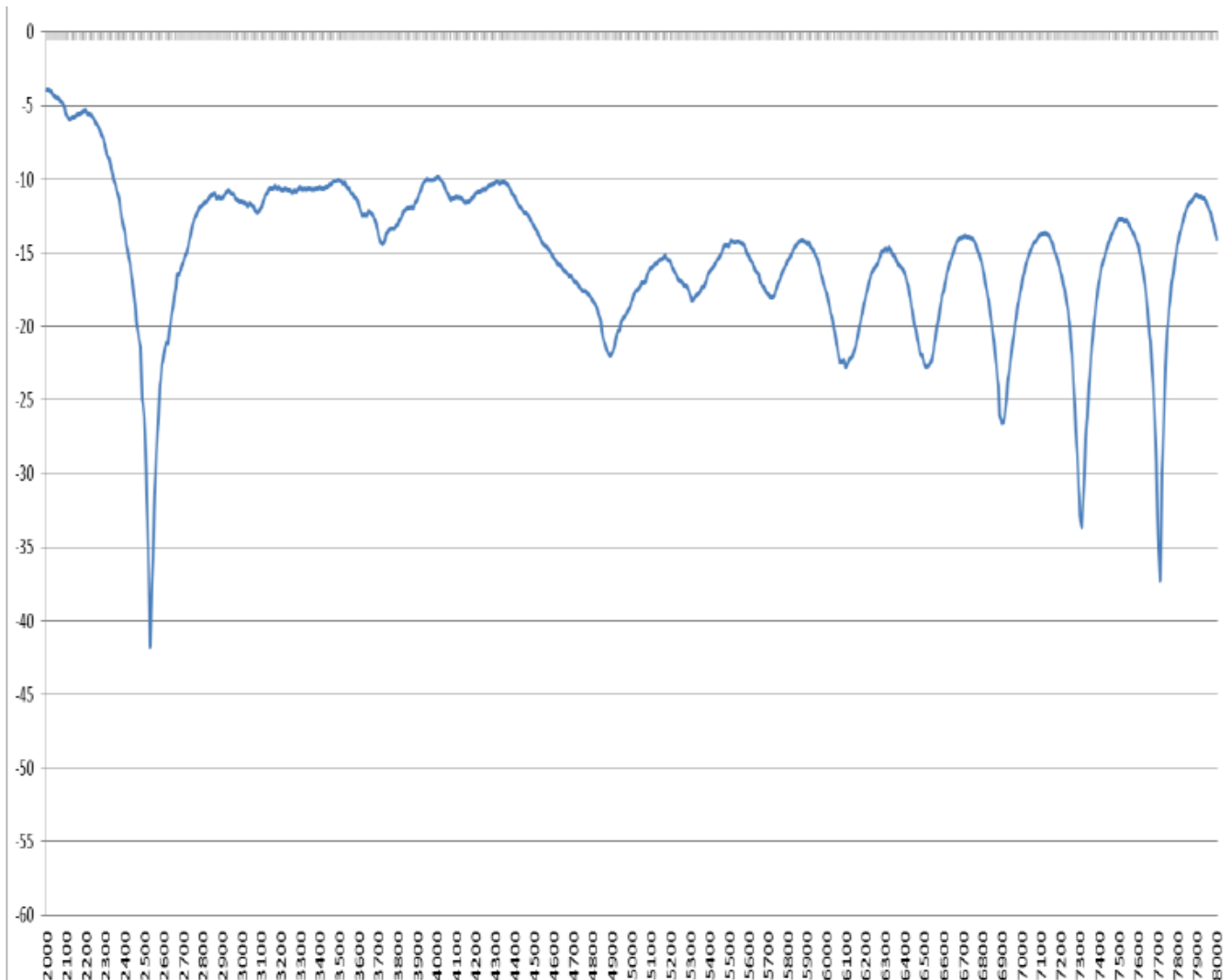
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4. Performance Report :

Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss



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		Frequency (GHz)		
		2.4	2.45	2.5
ANT-1	ReturnLoss (dB)	-13.421	-17.992	-26.102

		Frequency (GHz)		
		5.92	6.22	6.52
ANT-1	ReturnLoss (dB)	-14.643	-16.905	-22.659

		Frequency (GHz)	
		6.82	7.12
ANT-1	ReturnLoss (dB)	-17.574	-13.713

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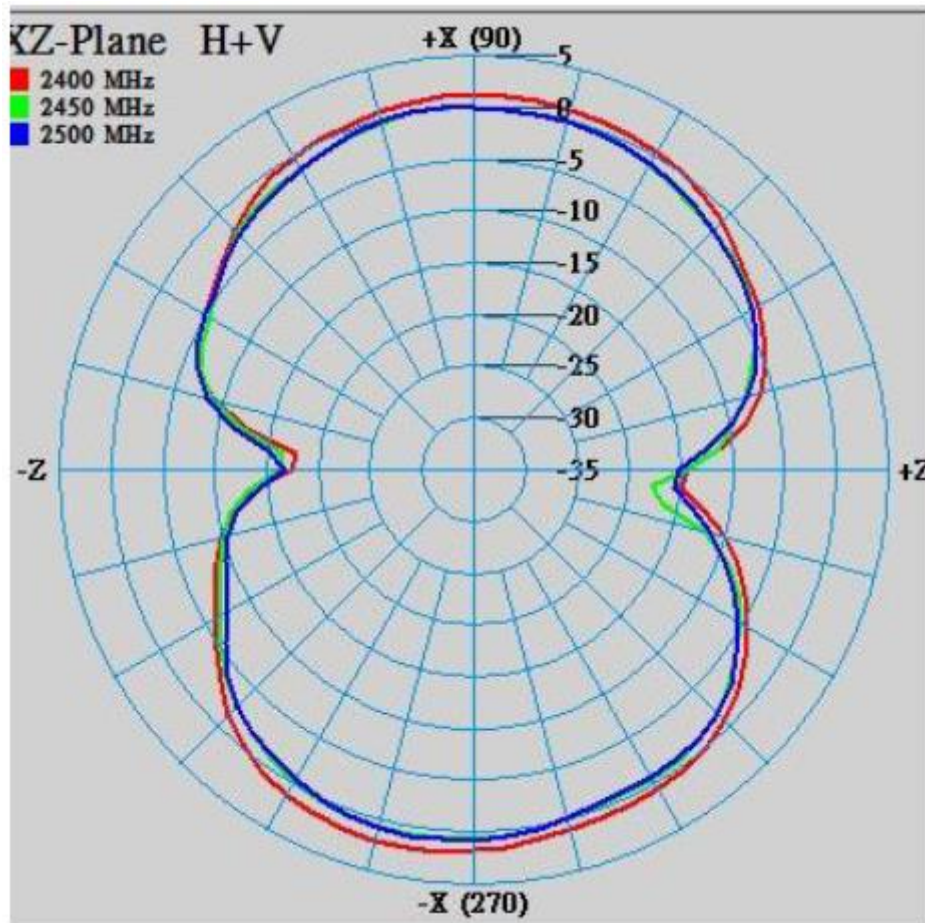
RADIATION PATTERN

2 GHz

X-Z Plane

Phi=0.00deg

Gain . dB



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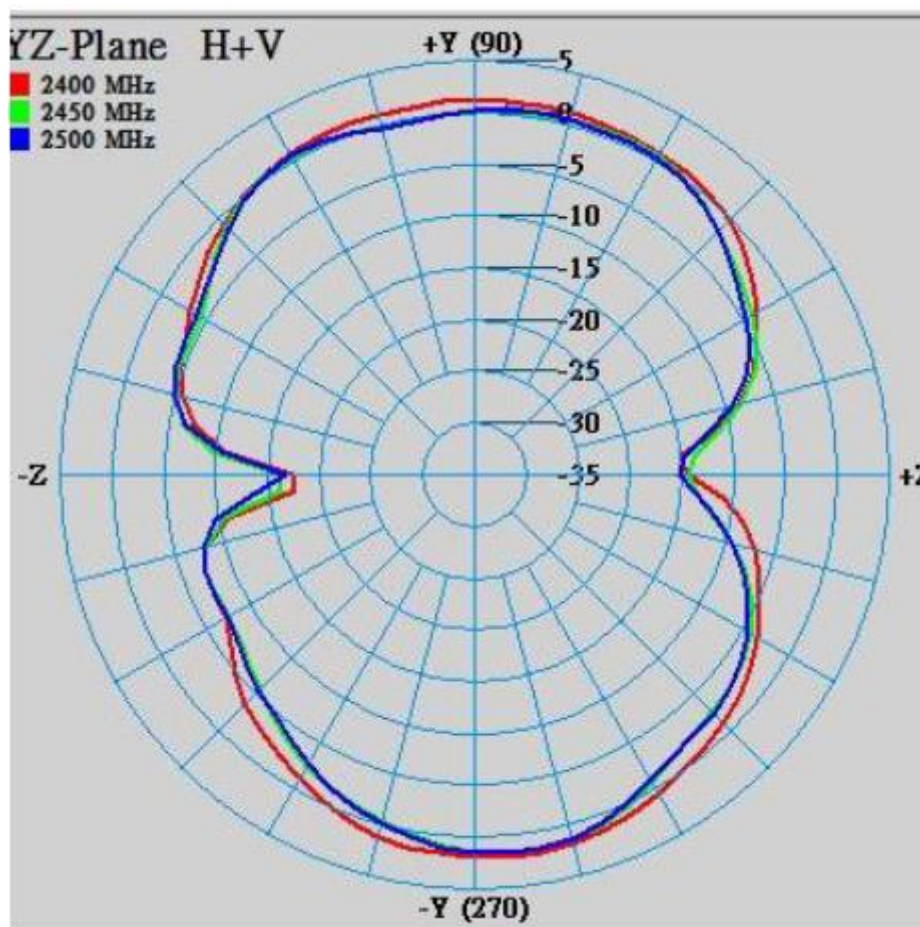
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SPEC REV.
A0

Y-Z Plane
Phi=90.00deg

Gain . dB



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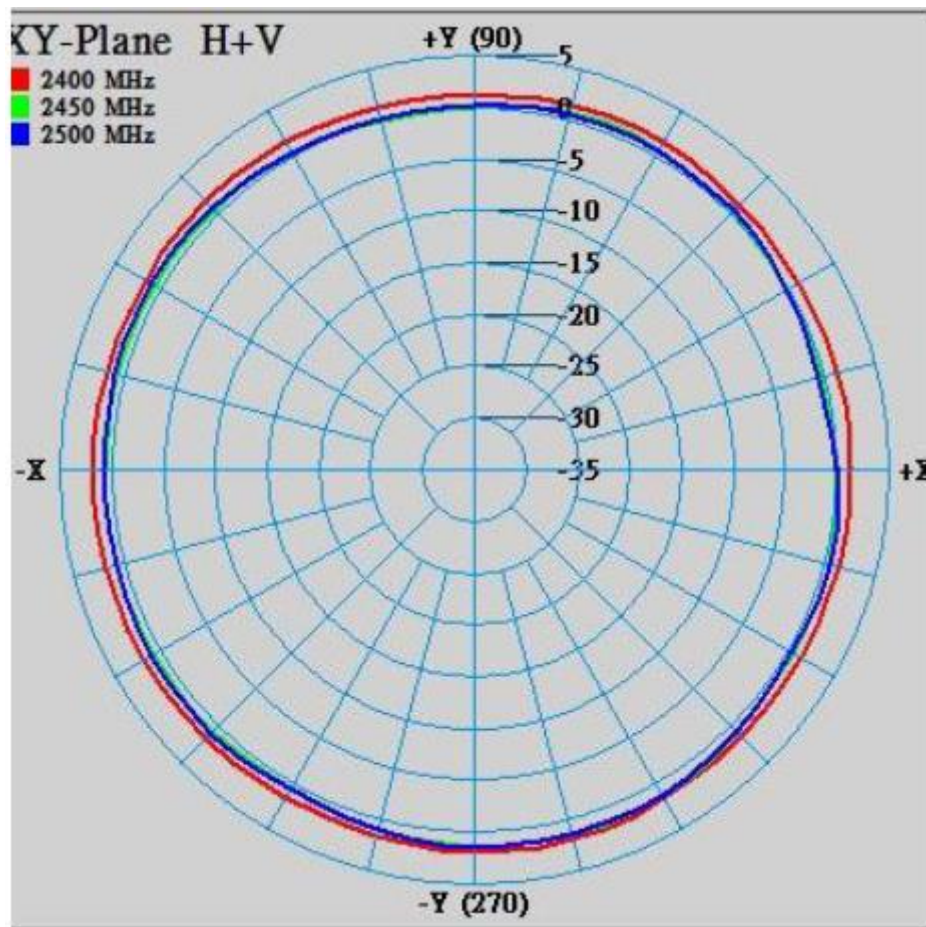
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A0

X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	2.047	-1.382	2.002	-1.291	1.938	1.508
2450	0.814	-2.491	1.681	-2.126	1.411	0.554
2500	0.882	-2.502	1.696	-2.161	1.501	0.606

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UNIT : mm

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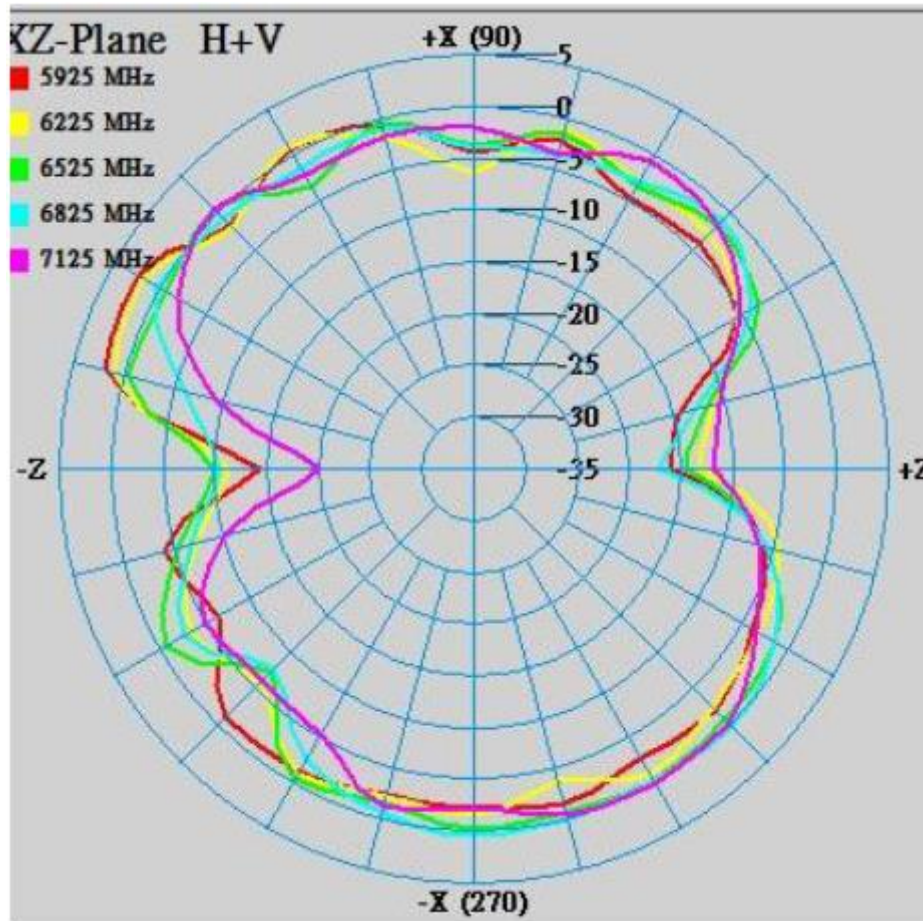
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SPEC REV.
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6 GHz**X-Z Plane****Phi=0.00deg****Gain . dB**

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ANGLES = N/A HOLEDIA = N/A

SCALE : N/A

UNIT : mm

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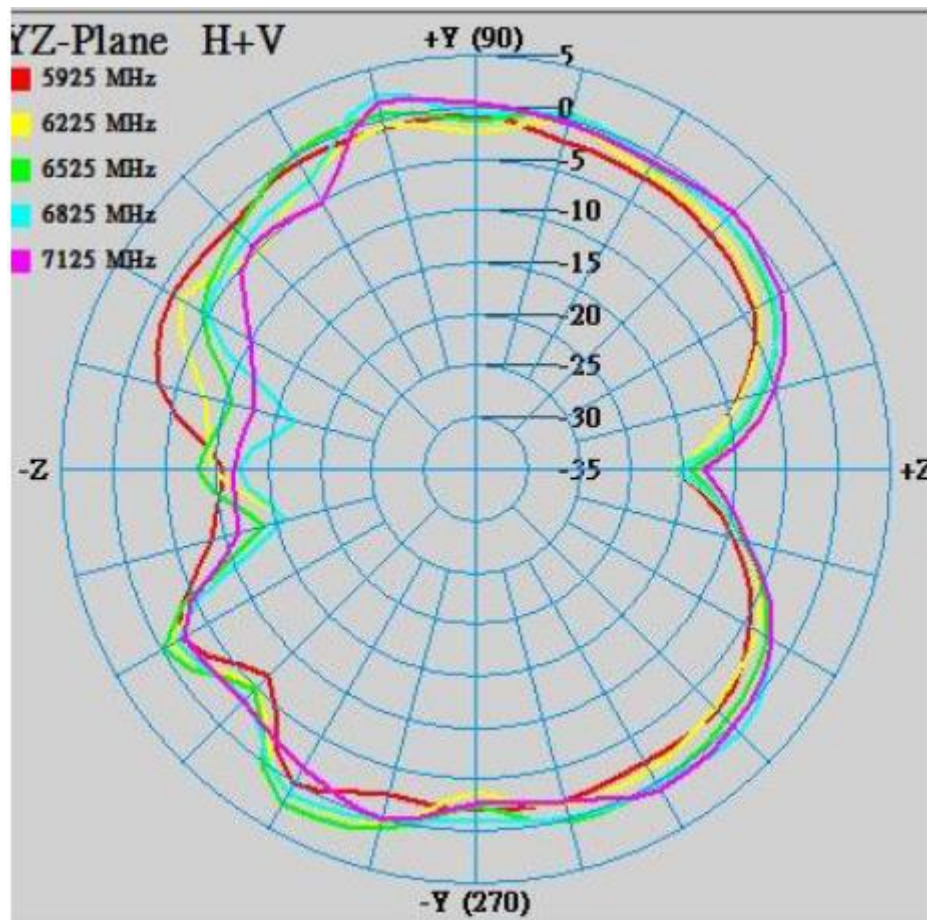
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SPEC REV.
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Y-Z Plane

Phi=90.00deg

Gain . dB



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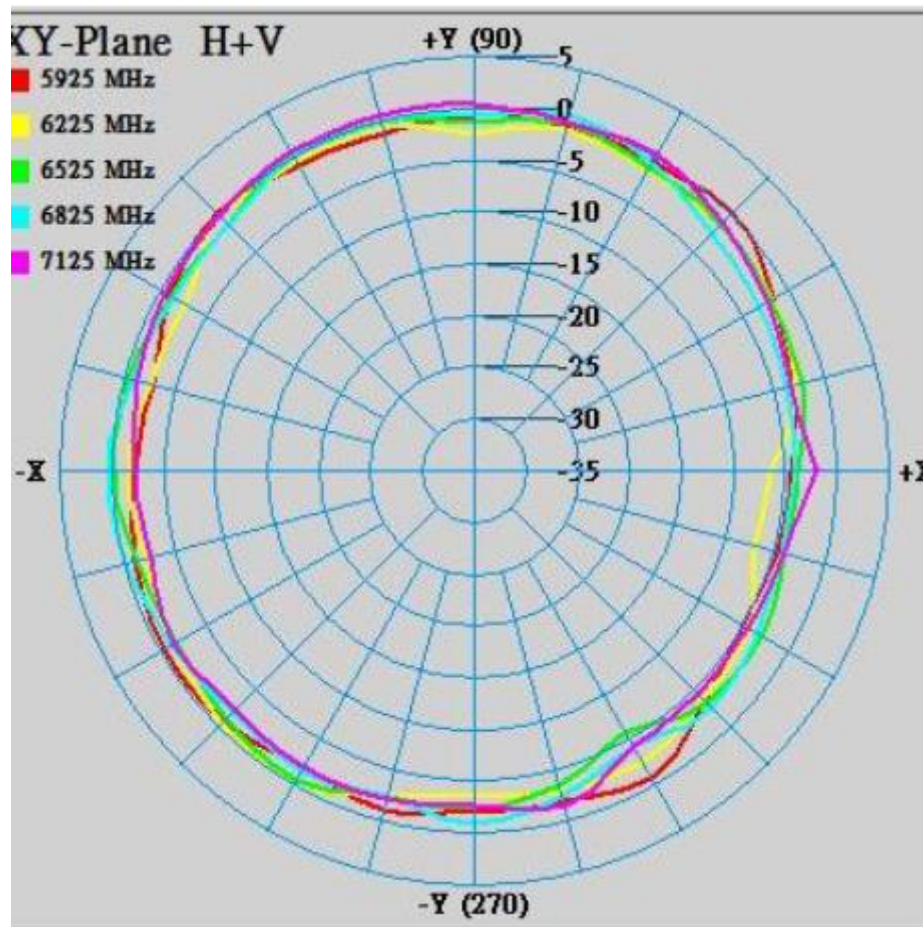
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A0

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	2.416	-2.413	0.037	-2.936	0.265	-1.558
6225	1.789	-2.544	1.241	-2.850	-0.343	-2.102
6525	0.564	-2.163	2.327	-1.735	0.173	-1.645
6825	0.490	-2.460	2.390	-1.775	0.580	-1.565
7125	0.453	-3.039	1.712	-2.238	0.554	-1.573

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