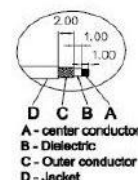
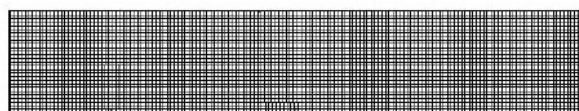
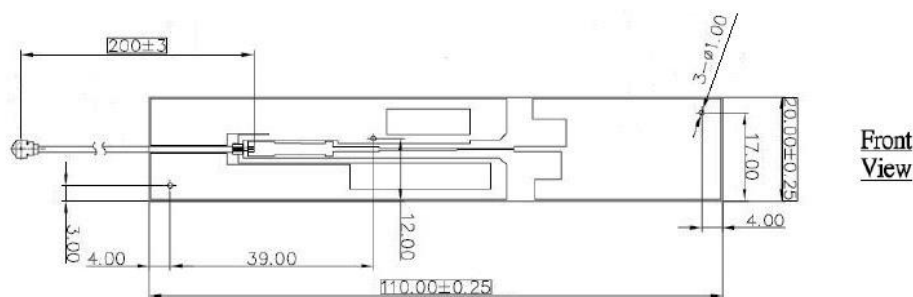


ELECTRICAL SPECIFICATION

PARAMETERS		VALUE					UNIT
Frequency Range		698 ~ 798	824 ~ 960	1710 ~ 2170	2300 ~ 2400	2500 ~ 2690	MHz
Return Loss, max		-10					dB
VSWR, max		2.0					-
Gain	698 ~ 798 MHz	3.55					dBi
	824 ~ 960 MHz	3.59					dBi
	1710 ~ 2170 MHz	3.95					dBi
	2300 ~ 2400 MHz	4.56					dBi
	2500 ~ 2690 MHz	4.66					dBi
Polarization		Linear					-
Radiation Pattern		Omni-Directional					-
Impedance		50					Ω
Operating Temperature Range		-20 ~ +65					°C
Antenna Material		FPC					-
		0.5					oz
Connector		IPEX Compatible					-
Cable	Coaxial Cable	$\varnothing$ 1.13					mm
	Color	White					-

DIMENSIONS



Unit: mm

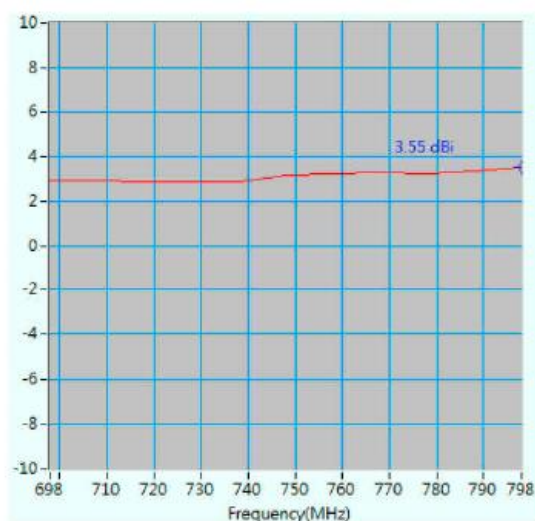
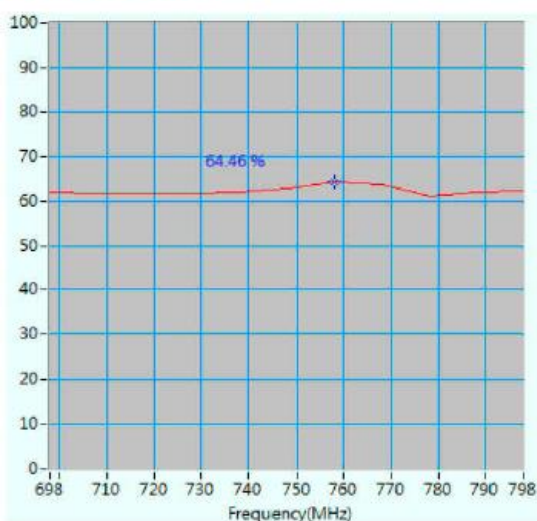
■ FREQUENCY CHARACTERISTICS

VSWR

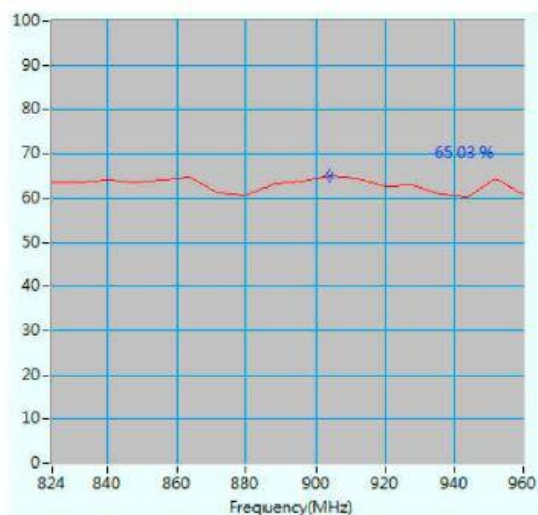


■ EFFICIENCY & PEAK GAIN

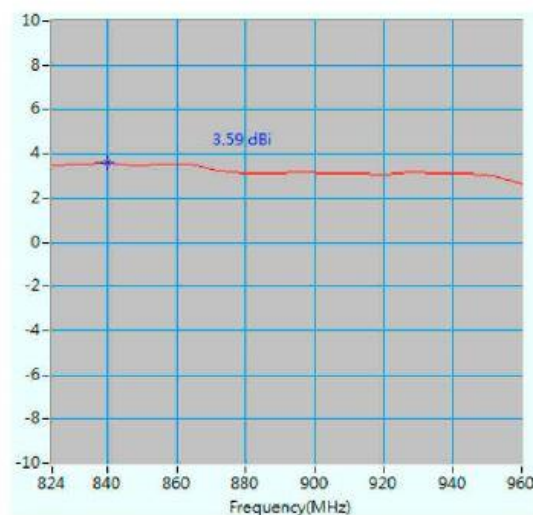
698~798MHz



824~960MHz

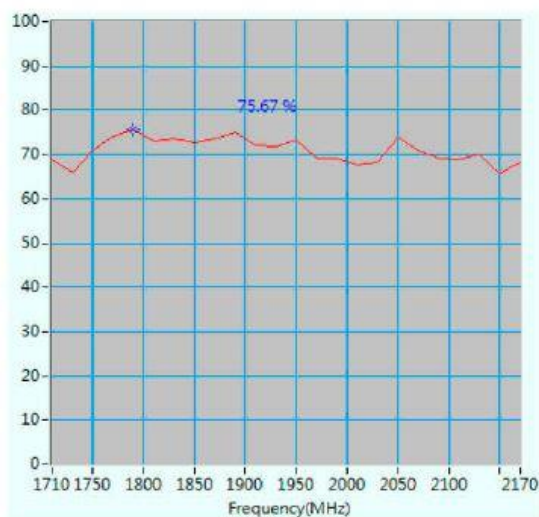


Maximum Efficiency at 904 MHz : 65.0 %

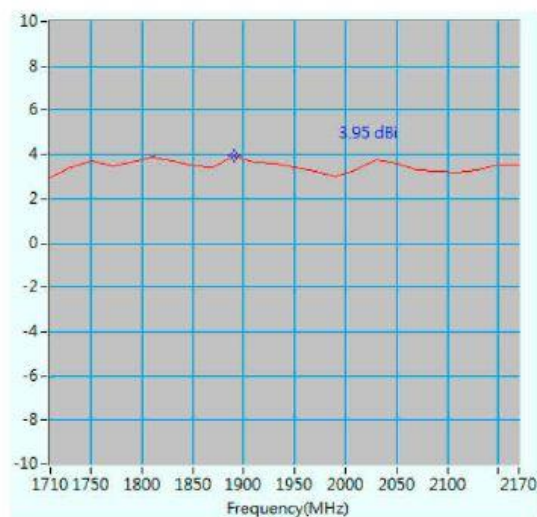


Maximum Peak Gain at 840 MHz : 3.59 dBi

1710~2170 MHz

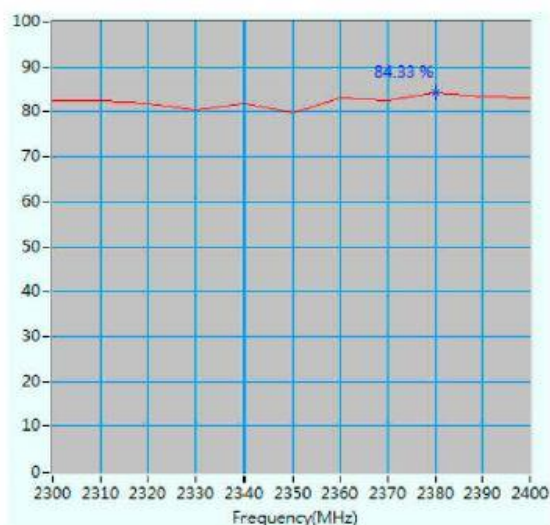


Maximum Efficiency at 1790 MHz : 75.6 %

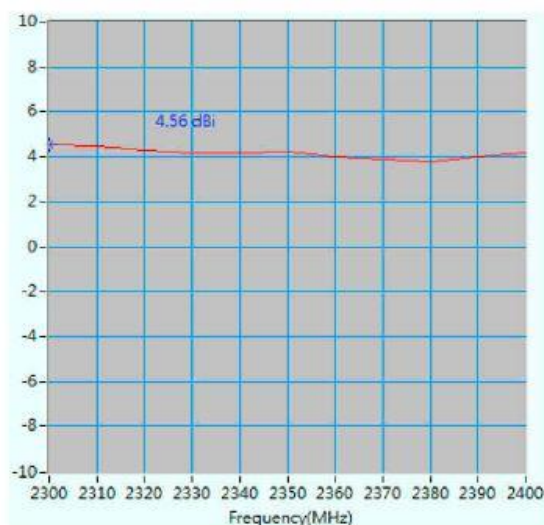


Maximum Peak Gain at 1890 MHz : 3.95 dBi

2300~ 2400MHz

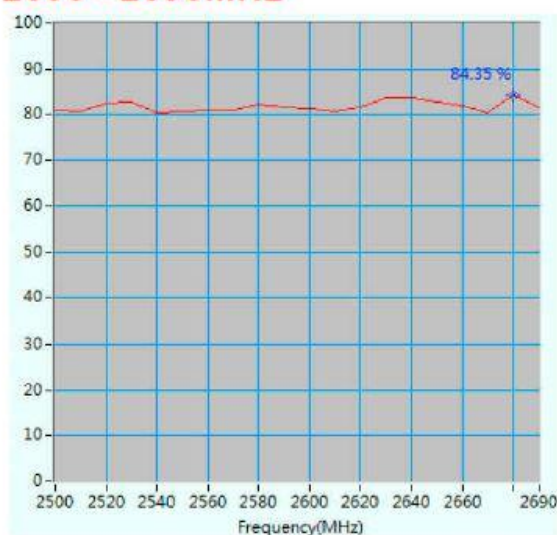


Maximum Efficiency at 2380 MHz : 84.3 %

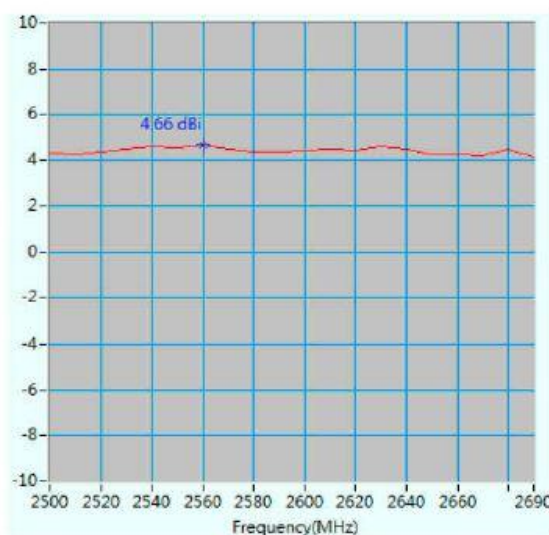


Maximum Peak Gain at 2300 MHz : 4.56 dBi

2500~ 2690MHz



Maximum Efficiency at 2680 MHz : 84.3 %



Maximum Peak Gain at 2560MHz : 4.66 dBi

	Ant	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
698	61.9	2.91
748	62.9	3.20
798	62.3	3.54

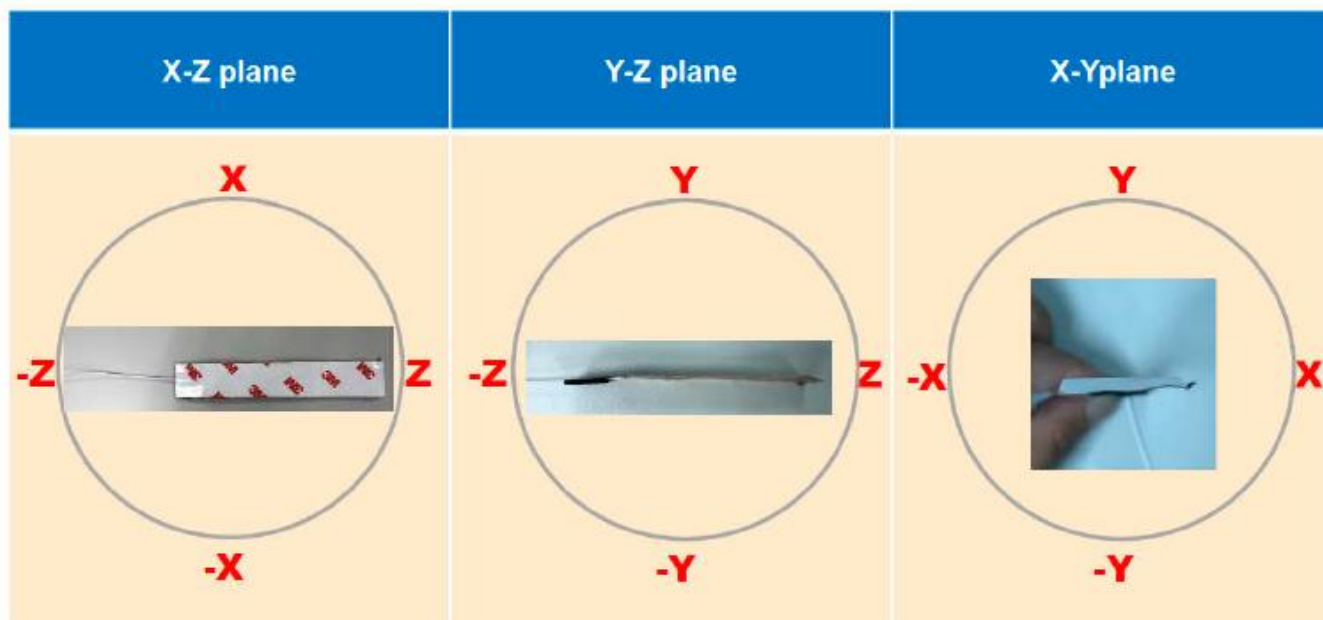
	Ant	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
824	63.5	3.45
896	63.6	3.15
960	60.8	2.64

	Ant	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
1710	68.8	2.95
1970	69.0	3.25
2170	68.2	3.50

	Ant	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
2300	82.5	4.56
2350	79.8	4.26
2400	83.2	4.16

	Ant	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
2500	81.1	4.28
2590	81.4	4.35
2690	81.7	4.13

■ 3 Views of Antenna

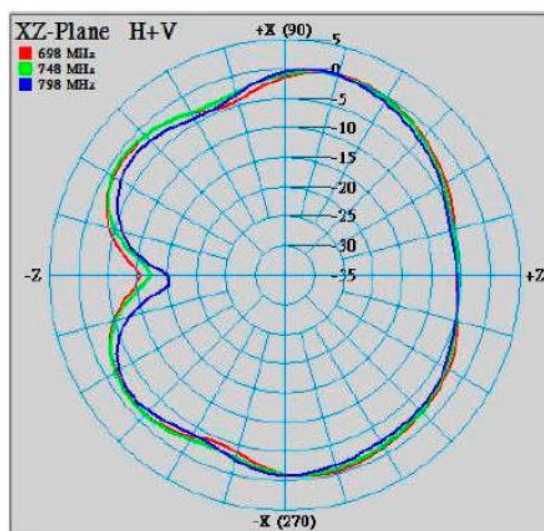


■ RADIATION PATTERNS

698~798 MHz

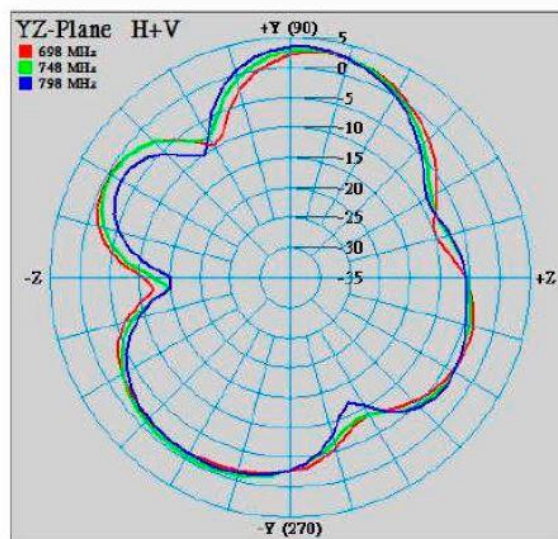
Gain . dB

X-Z Plane
Phi=0.00 deg



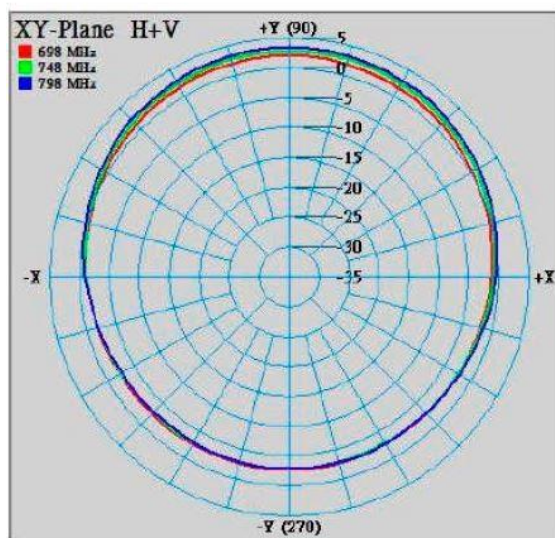
Y-Z Plane
Phi=90.00 deg

Gain . dB



X-Y Plane
Theta=90.00 deg

Gain . dB



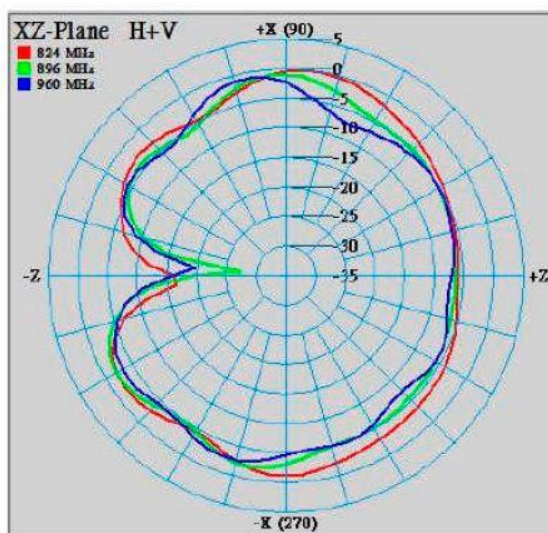
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
698	0.26	-2.47	2.91	-2.45	2.06	-0.41
748	0.13	-2.46	3.20	-2.31	2.83	0.02
798	0.27	-2.99	3.55	-2.61	3.44	0.41

824~960MHz

X-Z Plane

Phi=0.00 deg

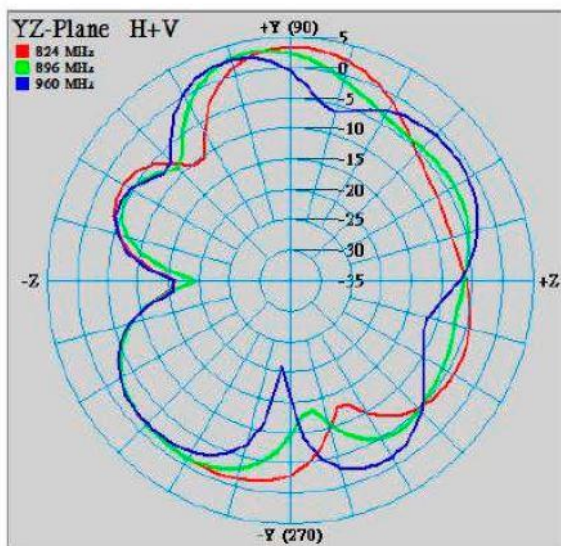
Gain . dB



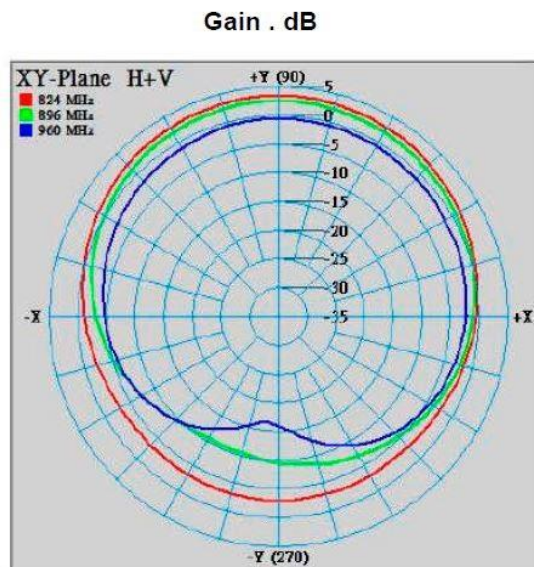
Y-Z Plane

Phi=90.00 deg

Gain . dB



X-Y Plane
Theta=90.00 deg

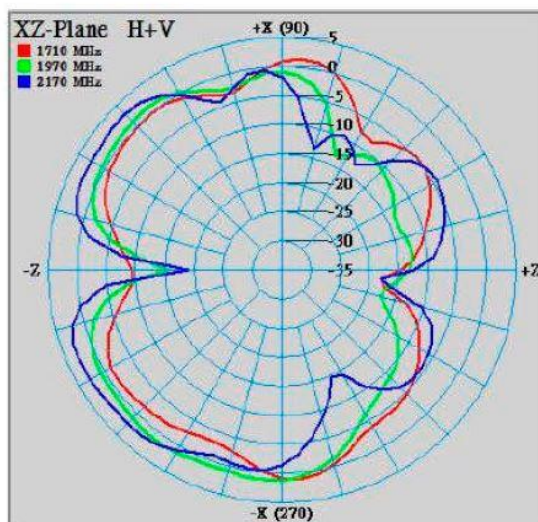


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
824	-0.13	-3.38	3.45	-2.78	3.45	0.37
896	-1.04	-4.48	3.15	-3.20	2.46	-1.07
960	-1.02	-4.96	2.64	-3.21	-0.56	-3.46

1710~2170 MHz

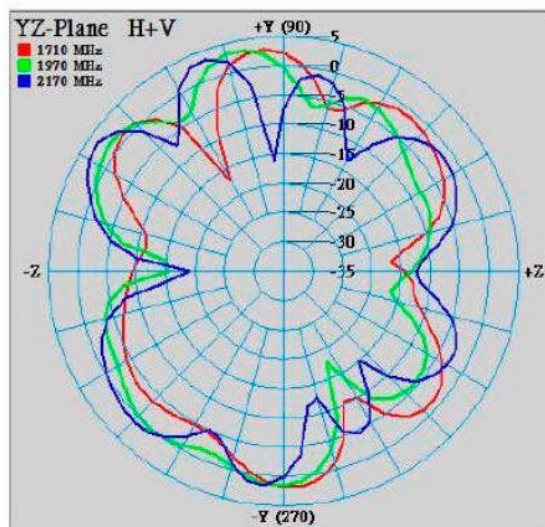
Gain . dB

X-Z Plane
Phi=0.00 deg



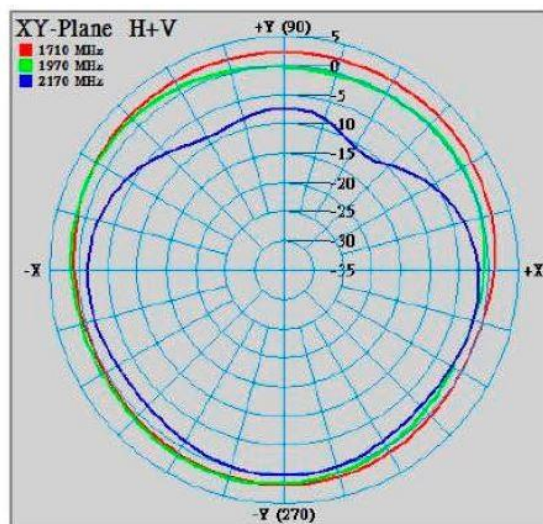
Y-Z Plane
Phi=90.00 deg

Gain . dB



X-Y Plane
Theta=90.00 deg

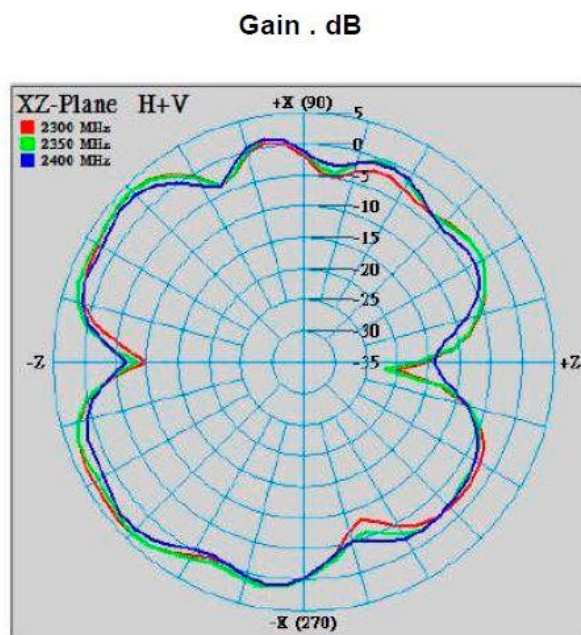
Gain . dB



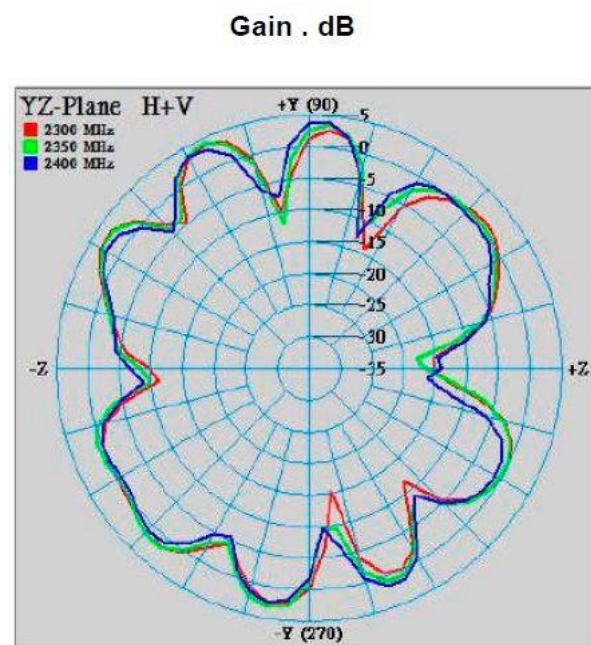
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
1710	1.40	-2.87	2.95	-2.77	2.33	1.46
1970	1.41	-2.30	3.25	-2.42	1.89	0.57
2170	2.96	-1.54	3.50	-2.15	0.26	-2.82

2300 ~ 2400 MHz

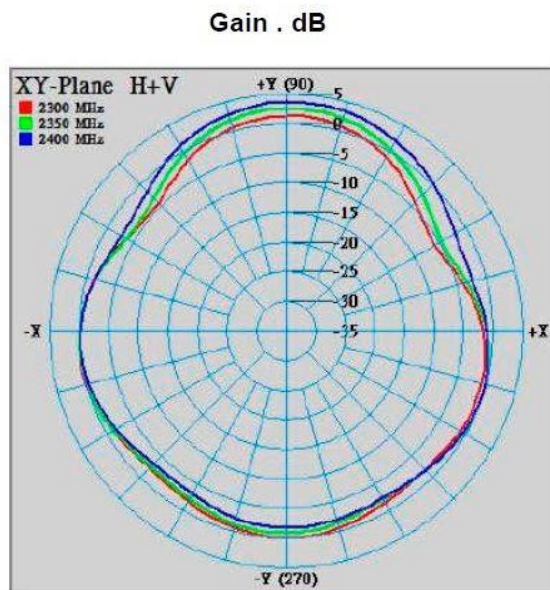
X-Z Plane
Phi=0.00 deg



Y-Z Plane
Phi=90.00 deg



X-Y Plane
Theta=90.00 deg

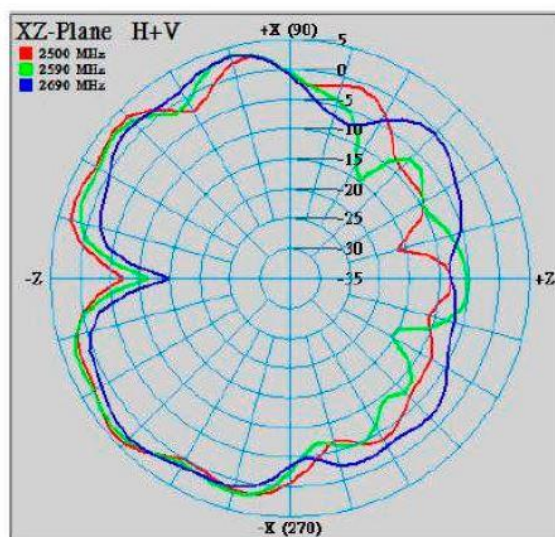


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2300	3.99	-0.35	4.02	-0.92	1.37	-1.24
2350	3.91	-0.14	4.27	-0.65	2.64	-0.80
2400	3.12	-0.80	4.14	-1.04	3.68	-0.26

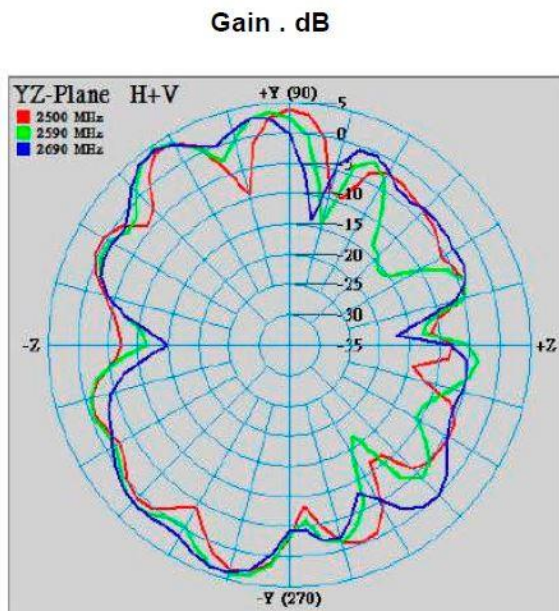
2500 ~ 2690 MHz

Gain . dB

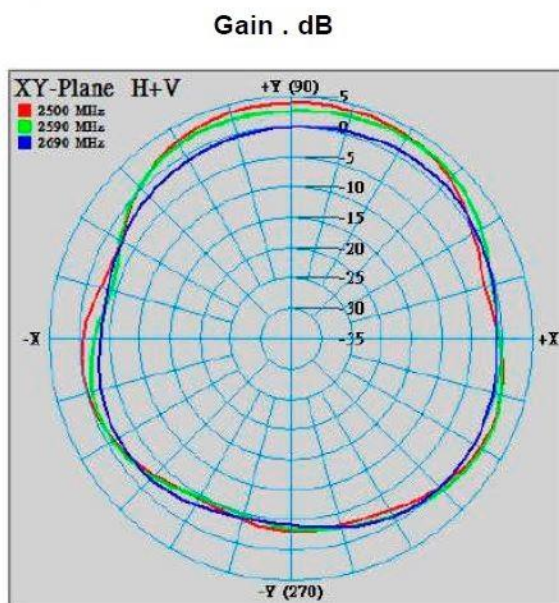
X-Z Plane
Phi=0.00 deg



Y-Z Plane
Phi=90.00 deg



X-Y Plane
Theta=90.00 deg



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2500	4.28	-0.61	4.00	-1.66	4.05	0.48
2590	3.70	-0.81	4.33	-1.40	3.41	0.27
2690	3.39	-0.94	4.11	-1.01	0.99	-1.16



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FLEXIBLE PCB ANTENNA

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■ APPROVAL

RALTRON	
DRAWN BY:	AR, October 17, 2019
APPROVED BY:	CP, October 17, 2019
REVISION:	A, Initial Release
	B, AR, August 21, 2020
	Updated the Frequency Characteristics

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