



EDIMAX BR6893MCX ARY121-0350-003-00 (Ant2)

**Only Antenna
(6GHz Peak Gain:2.32dBi 、
Directional Gain: 8.95dBi)**

**Engineer : Ting
Report date : 2022/03/13**



Directional Gain

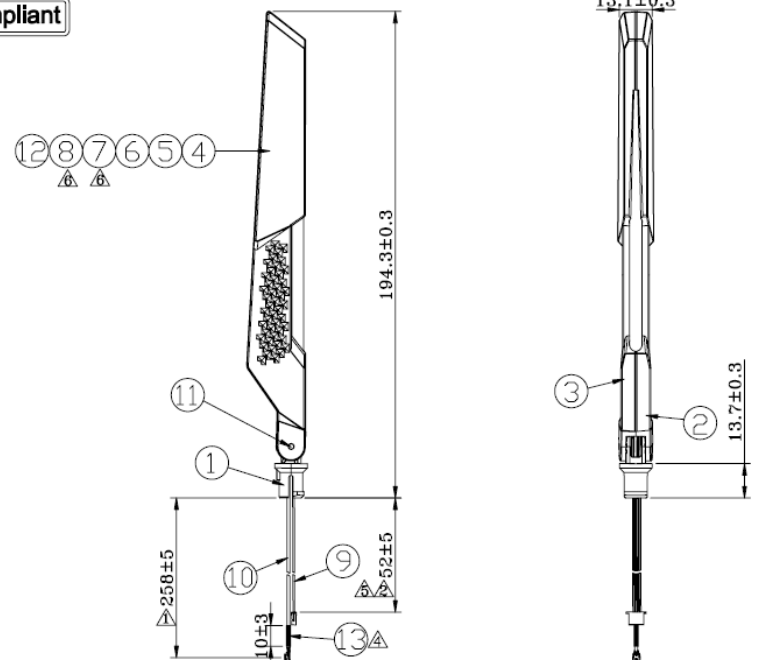
Directional Gain=

$$10 \log \left[\frac{\left(10^{\frac{G1}{20}} + 10^{\frac{G2}{20}} + \dots + 10^{\frac{Gn}{20}} \right)^2}{N_{ant}} \right] dBi$$

Category	Peak Gain(dBi)	Directional Gain (dBi)
Wi-Fi 2.4G	Ant1 2.46 Ant3 2.89	5.69
Wi-Fi 5G	Ant1 5.64 Ant3 5.49	8.58
Wi-Fi 6G	Ant2 2.32 Ant4 3.46 Ant5 2.94 Ant6 2.95	8.95

RoHS Compliant

A
B
C
D
E



REV	DATE	DESCRIPTION	NAME
A2	21.12.23	△ MODIFY CALBE LENGTH	LIEF
A3	21.12.30	△ MODIFY TOLERANCE	LIEF
A4	22.01.26	△ MODIFY NOTE	WEN
A5	22.01.31	△ MODIFY NOTE & ADD TUBE	WEN
A6	22.02.25	△ MODIFY WIRE HARNESS LENGTH	LIEF
A7	22.03.11	△ MODIFY COPPER TUBE	LIEF



D	⑬	HEAT SHRINK TUBE	COLOR : RED	1
	⑭	HEAT SHRINK TUBE	COLOR : BLACK	1
	⑪	Fixed Pin	Fixed Pin , Black Coating	2
	⑩	CABLE	OD:1.37 , BLACK LOW LOSS COAXIAL CABLE WITH MHF I Plug For 1.37mm Cable	1
	⑨	WIRE HARNESS	OD:1.0mm , BLACK	1
	⑧	COPPER TUBE-2	BRASS	1
	⑦	COPPER TUBE-1	BRASS	1
	⑥	LIGHT PIPE	φ:5mm , L:133.5mm	1
	⑤	LED	SIZE:1.5*1.6*0.55mm	1
E	④	PCB	PCB , FR-4	1
	③	COVER-2	COVER , Black	1
	②	COVER-1	COVER , Black	1
	①	BASE	BASE , BLACK	1
	NO	ITEM	DESCRIPTION	QTY

△ Note:
 △ 1.Frequency:5.925~7.125GHz
 △ Peak Gain:2.32dBi(MAX) , V.S.W.R.:<2 (with case)
 2.Efficiency:>59%(with case)
 3.Impedance:50ohm

CUSTOMER NO.:	1680-00000702-50U
PART NO.:	ARY121-0350-003-00

WIESON TECHNOLOGIES CO., LTD
WIESON

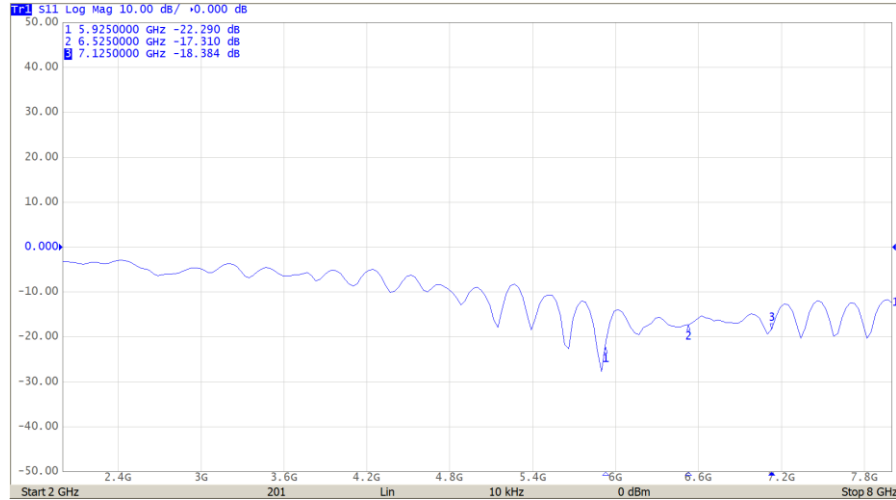
TITLE: WiFi Single 6G Antenna(ANT2)△

DRAWN BY	LIEF	DRAWING NO.	
CHECKED BY		DRAWING SIZE	A4
APPROVED BY		UNIT	mm
SORTING NO.	WSC	PAGE	1 OF 1

Antenna Specification

Ant2	Specification
Frequency(GHz)	5.925~7.125
Bandwidth	1.2GHz (Min.)
Return Loss	10 dB (Min.)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	2.32dBi (Max)
Impedance	50Ω
Material	Copper tube
Maximum Power	1W
V.S.W.R	2 : 1
Radiation	Omni directional
Efficiency	>59%
Connector	MHF
Cable type	OD:1.37
Operating Temperature	-10~60°C
Storage temp	-10~70°C

Return Loss



Freq(MHz)	5925	6525	7125
S11(dB)	-22.2	-17.3	-18.3

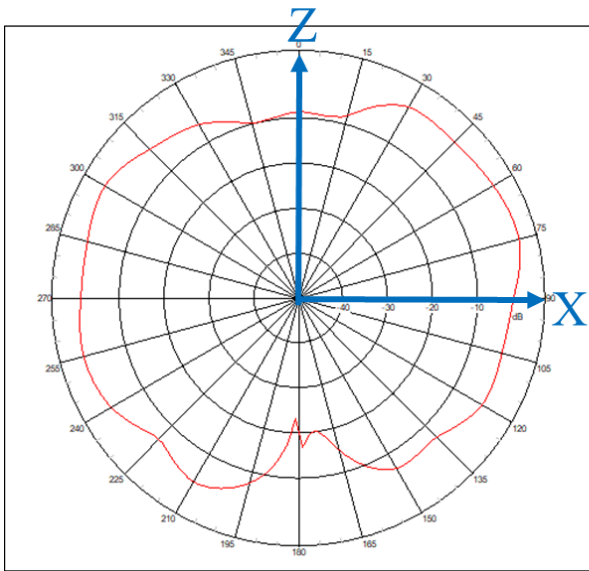
3D Gain Total

Freq(MHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
5925	1.27	-2	63
6150	2.32	-1.8	66
6250	1.51	-1.89	65
6350	1.32	-2.04	63
6450	1.8	-1.65	68
6550	1.41	-2.29	59
6650	1.55	-2.16	61
6750	1.6	-2.07	62
6850	1.31	-2.11	62
6950	2.17	-1.53	70
7125	1.77	-1.98	63

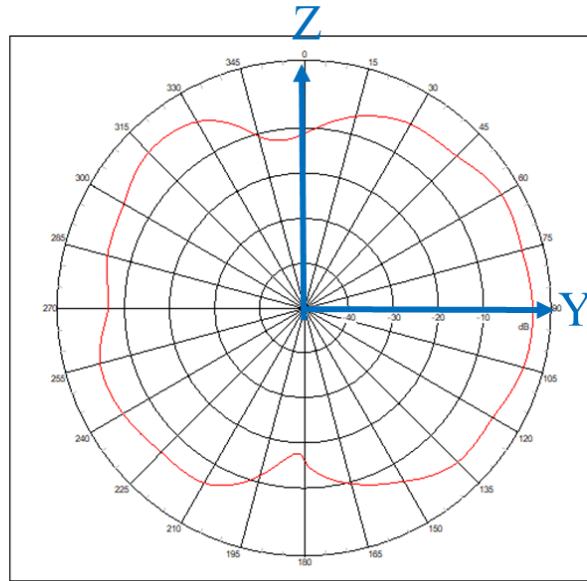
Antenna Pattern Wieson

Frequency: 5925MHz

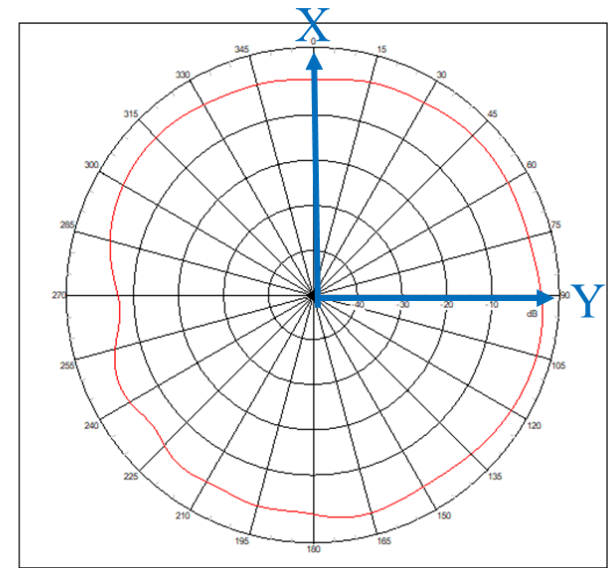
ZX-plane



YZ-plane



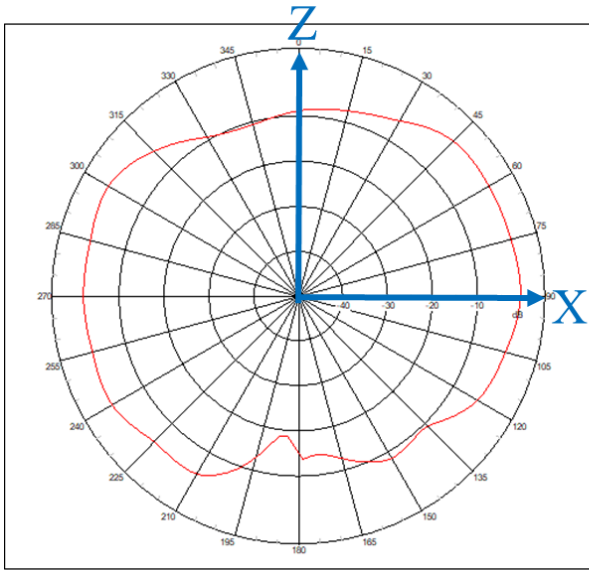
XY-plane



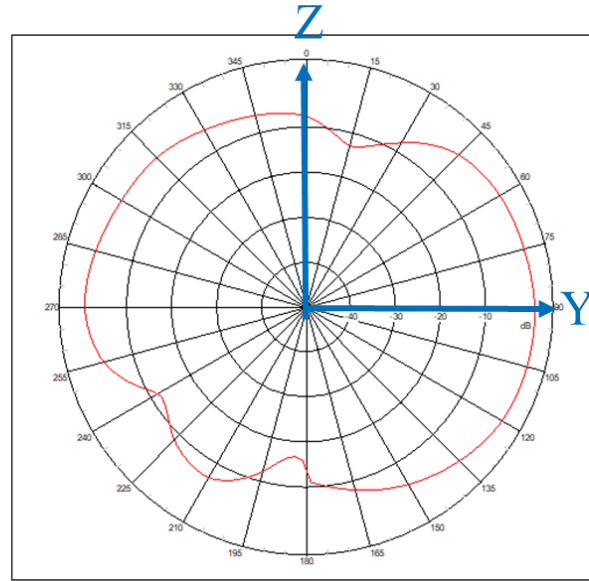
Antenna Pattern Wieson

Frequency: 6550MHz

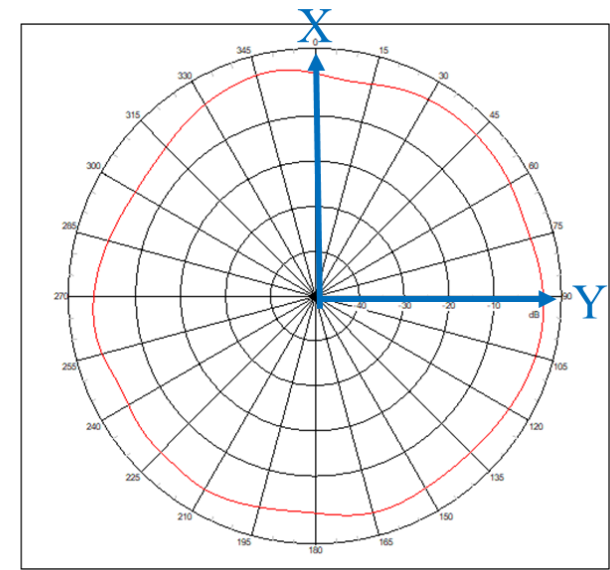
ZX-plane



YZ-plane



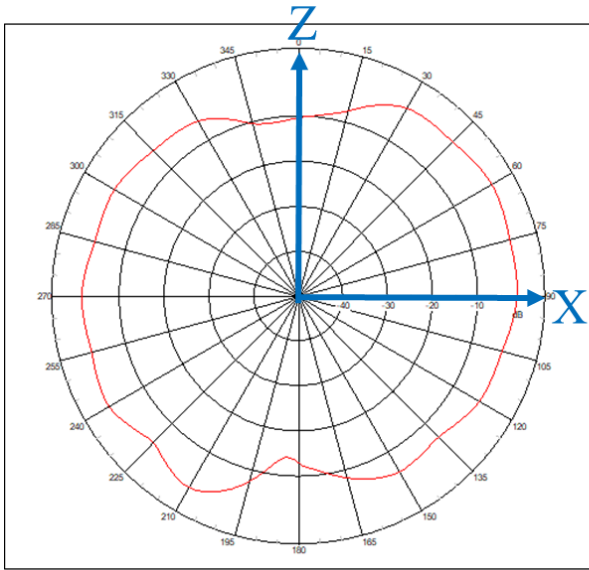
XY-plane



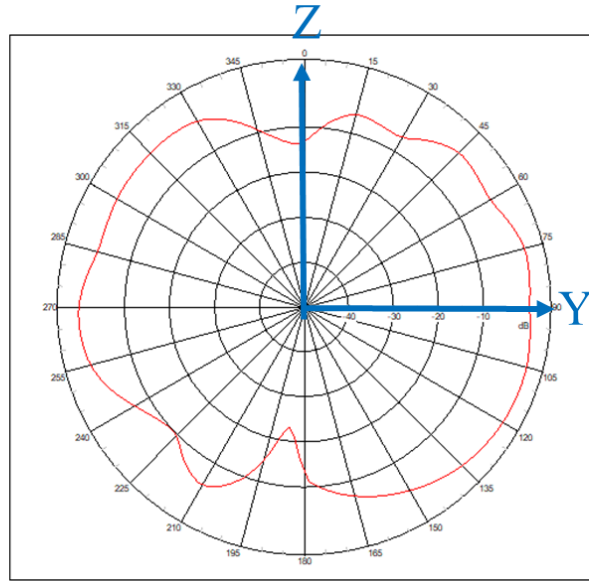
Antenna Pattern Wieson

Frequency: 7125MHz

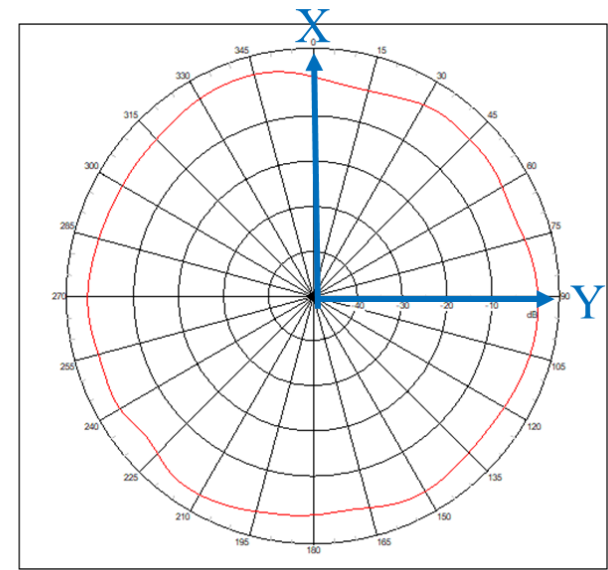
ZX-plane



YZ-plane



XY-plane





創造完美連結

MAKING THE PERFECT CONNECTION

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