

Product Number:
Prodect Name: Antenna

Specification For Approval

Data: 2025.04.09

Version: v1.0

Customer: /

Customer P/N: /

Supplier P/N: /

XGimi P/N: /

Description:

Silk Screen Printing: /

XGimi Checked By: 席小凡

Customer Approved By:

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Revision Record

Data	person	Content	State	Version
2025.04.09	席小凡	初始发布	Released	1.0

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1. Specification

Sample Photo



A.Electrical Characteristics

Frequency	☒ 2400~2500Mhz ☐ 433Mhz ☐ 5150~5850Mhz ☐ 2400~2500Mhz&5150~5850Mhz
Impedance	50 Ohm
S.W.R.	≤ 2.0
Antenna Type	PIFA
Antenna Gain	2.4G: -0.5dBi
Max Input Power	2W
Polarization	Linear
Radiation pattern	Omni-Directional

B.Material&Mechanical Characteristics

Material of Radiator	Cu
Cable Type	/
Cable Length	/
Connector Type	/
Connector Pull Test	/

C.Environmental

Operation Temperature	- 40℃~ + 80℃
Storage Temperature	- 40℃~ + 80℃

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2. Characteristics and Reliability Test

Test items		Test Condition and Procedure	Requirements
T1	S.W.R	Set DUT on Network Analyzer and make individual calibration to test	Meet XGIMI Antenna specification
T2	Antenna Gain	Set DUT on Antenna Chamber and make individual calibration to test	Meet XGIMI Antenna specification
M1	Terminal- Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Meet XGIMI Antenna specification 2. Frequency Tol.<=5%
M2	Welding Spot-Pull Test	Normal temperature and humidity force applied to axis of terminal Pulling force=3kg, keep 3 seconds	1. welding Spot has no damaged
E1	Salt Spray	Temp:35℃;RH:93%±3%; NaCl solution proportion:1.026~1.041; Time:12hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%
E2	Thermal Shock	One Cycle: -40℃ (30 minutes)to +80℃ (30 minutes) Cycles: 24.	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%
E3	Life(High Temp.)	MIL-STD-202G, 108A,cond. A Temp: 80℃; Time: 8 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<=5%

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3. Antenna S-parameter Test Data

Testing Equipment	Keysight E5071c
Test Data	/
	/
/	/

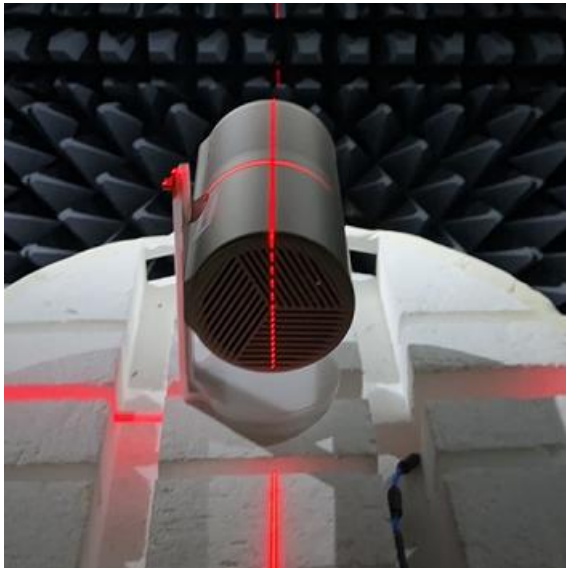
4. Antenna Radiation Pattern Test Data

Chamber Specification	
Absorption Darkroom	GTS 2800
Testing Equipment(passive)	Keysight E5080b
Testing Equipment(active)	R&S CMW270
Testing Equipment(Throughput)	Asus RT-AX88U

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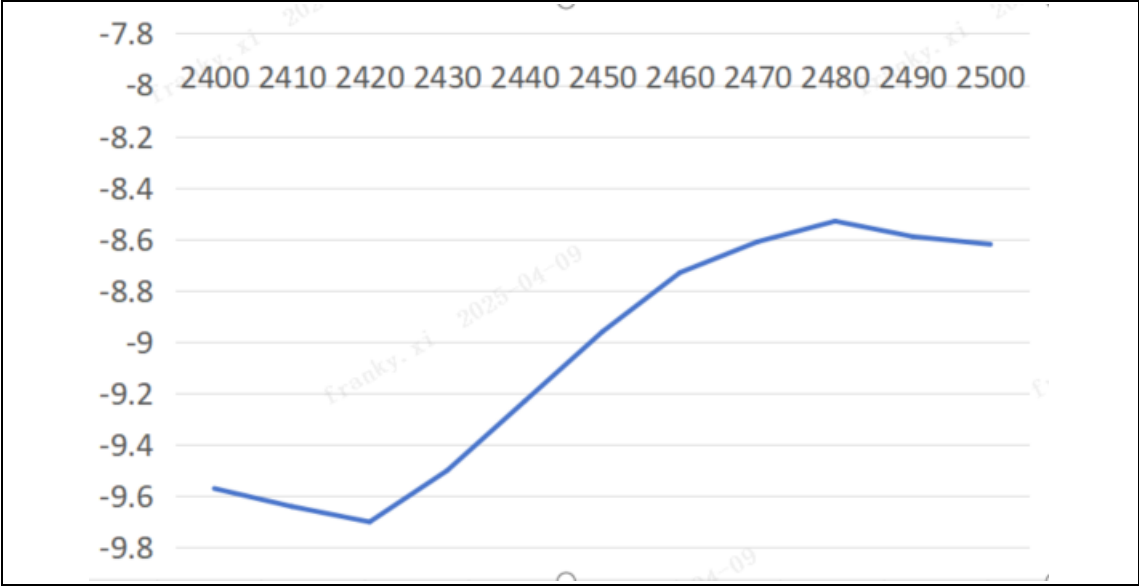
Position&Coordinate System



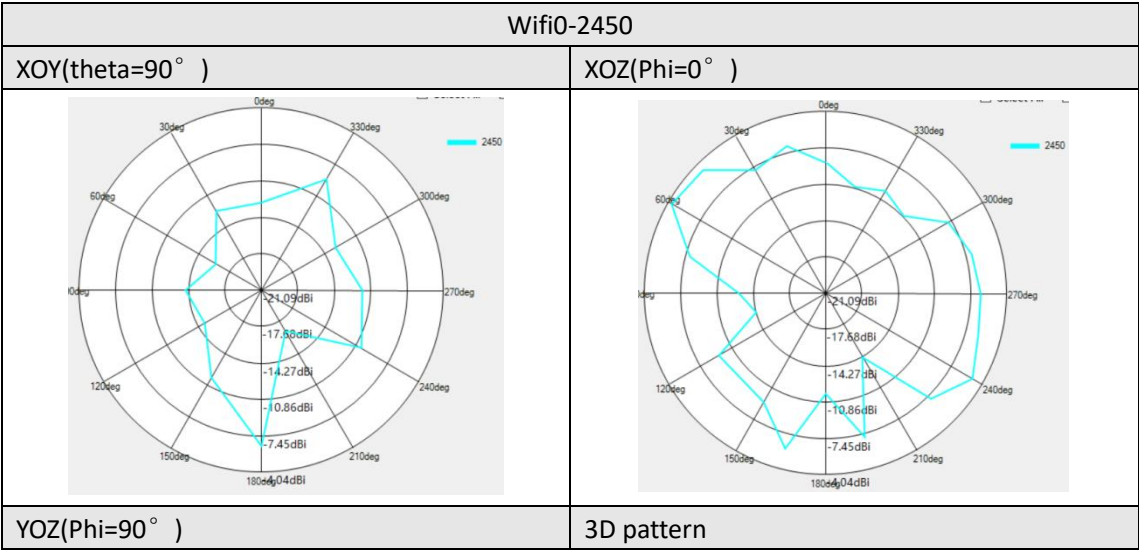
4.1. Peak Gain and Efficiency

Freq.(Mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain(dB)	-2.02	-2.03	-2.25	-2.46	-2.73	-3.04	-2.42	-1.96	-1.73	-1.71	-1.63
Efficiency(dB)	-9.57	-9.64	-9.7	-9.5	-9.23	-8.96	-8.73	-8.61	-8.53	-8.59	-8.62

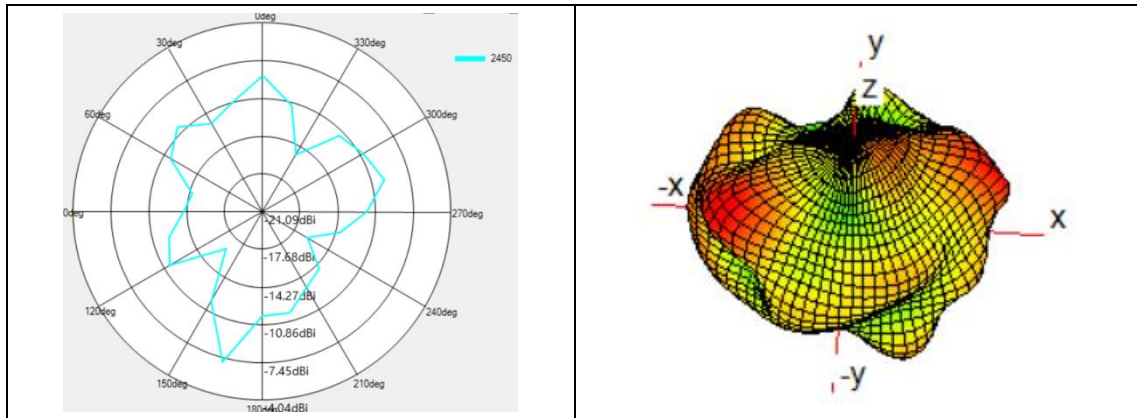
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4.2. Radiation Pattern



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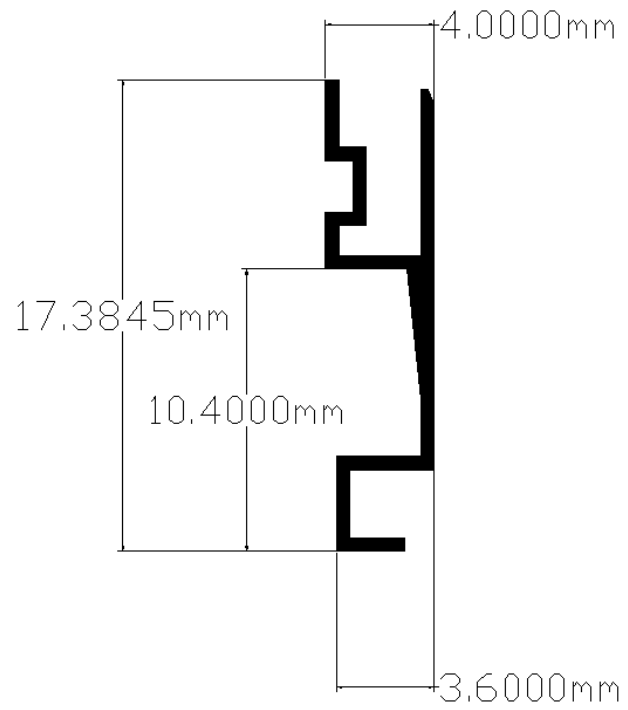


4.3. throughput

N/A

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5. Product assembly diagram



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