
WIFI 2.4G Antenna Datasheet

Manufacture : Xiamen Pinnacle Electrical Co.,Ltd.

Location: 4F, Guang Xia Building, Torch High-Tech Zone, Xiamen, China

Project Name: GW4

Product Specification: WIFI Board-Integrated Antenna

Version REV: V1.0

Date: 2026.02.07

fabrication drawing	examine and verify check	ratify approved

Catalogue Index

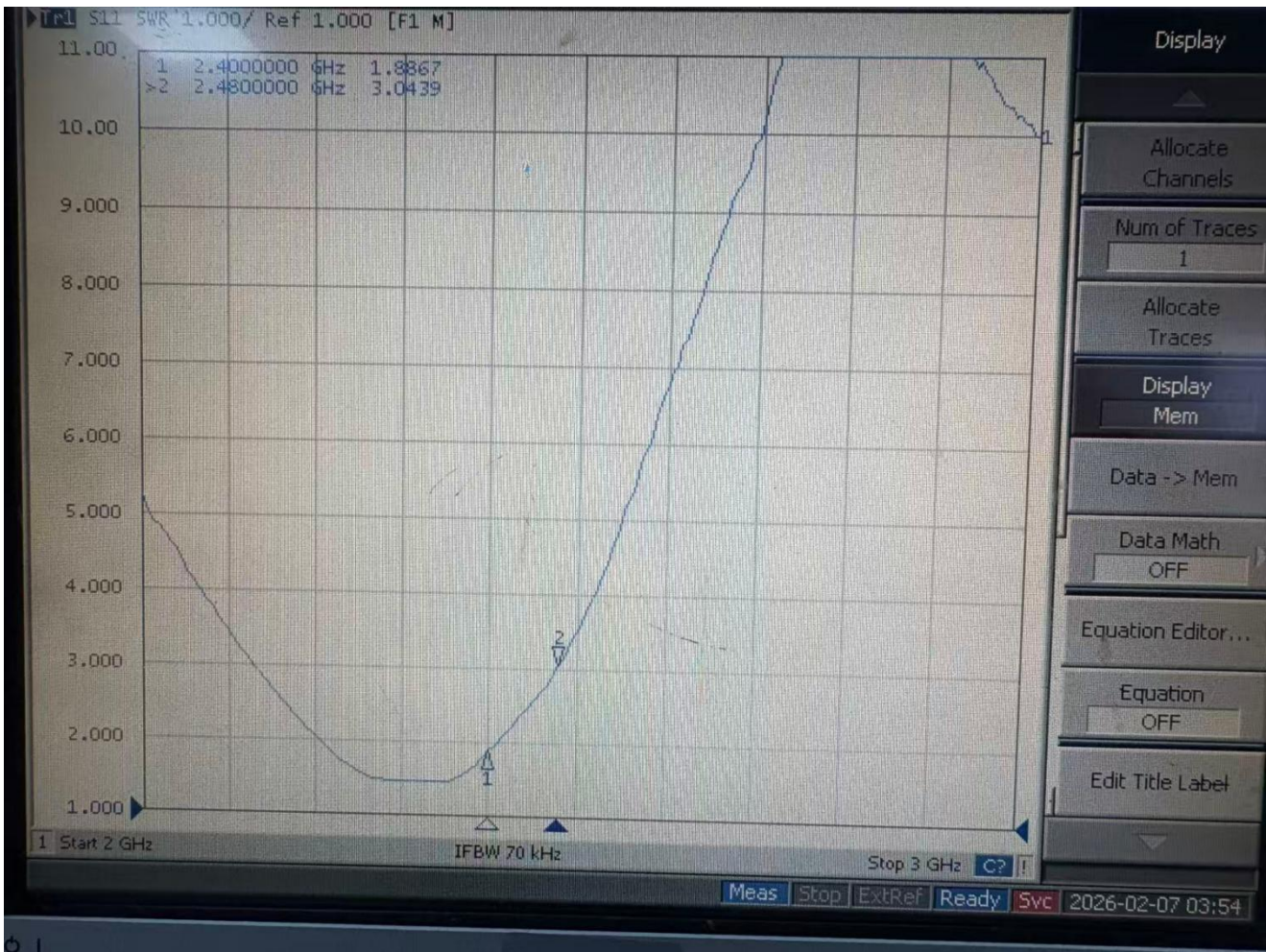
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Electrical Performance Index

electrical PERFORMANCE INDICATORS		Electrical Specifications	
Frequency range: 2400-2480 MHz		2400-2480MHZ	
VSWR	≤ 4.0	VSWR	≤ 4.0
gain	$\leq -0.1\text{DBI}$	GAIN	$\leq -0.1\text{DBI}$
radiation mode	omnidirectional	Radiation	OMNI
polarization mode	linear polarization	Polarizatin	LINEAR
input impedence	$50\ \Omega$	Input Impedance	$50\ \Omega$
mechanical PERFORMANCE INDICATORS		Mechanical Specifications	
interface form	/	Input connector	/
antenna material	PCB board mounted	Antenna materia	PCB board mounted
working temperature	$-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$	Working Temperature	$-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$
working humidity	40~85%	Working Humidity	40~85%
Product image			

Test report

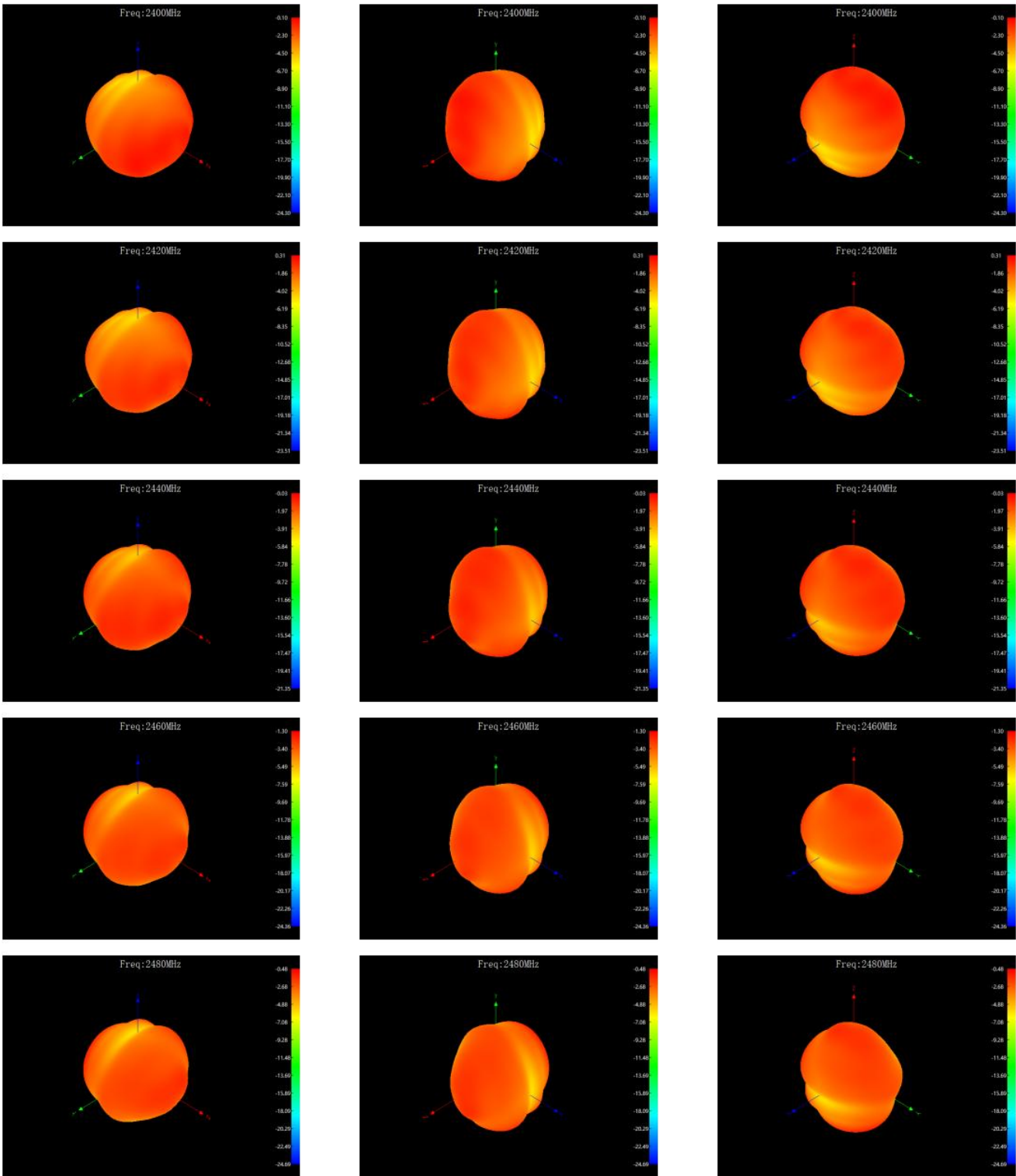
1. Antenna Standing Wave Pattern



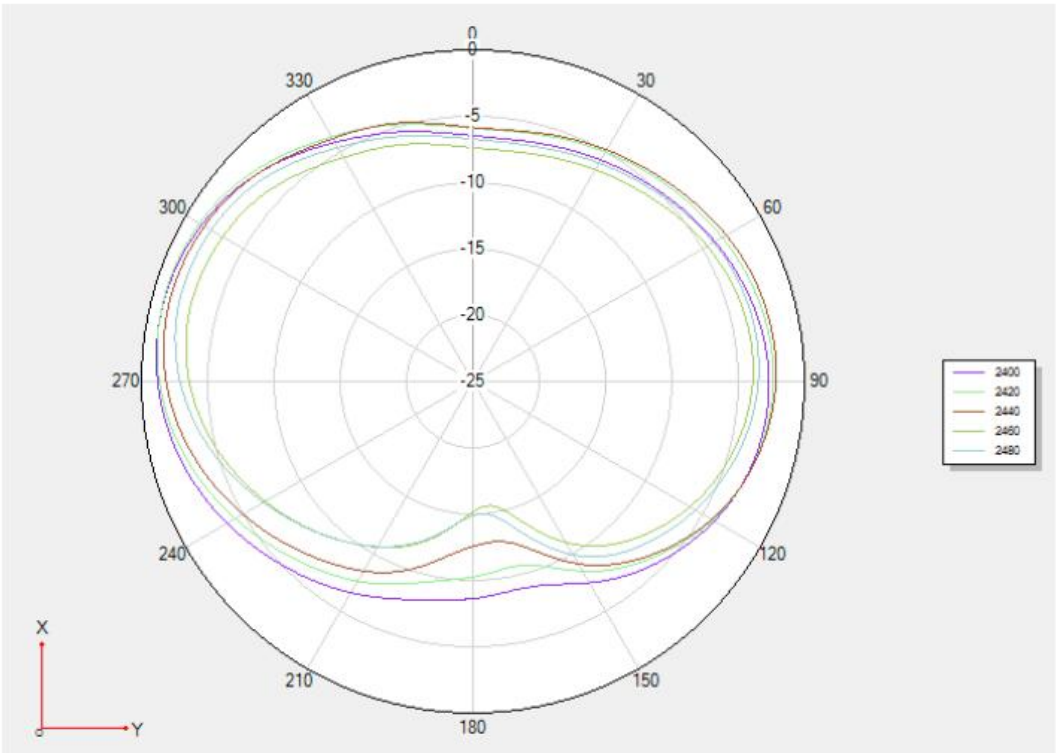
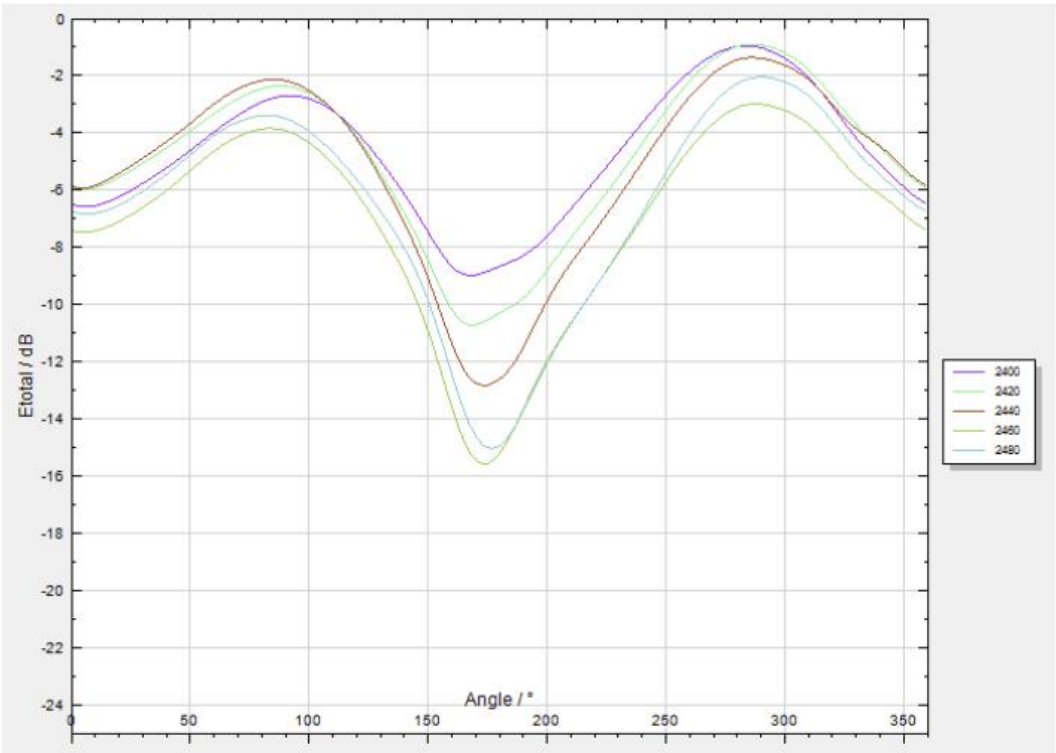
2. Antenna

Frequency/Mhz	MaxGain/dBi	Efficiency / %	Efficiency
2400	-0.1	40.18	
2402	-0.14	39.17	
2404	-0.19	37.84	
2406	-0.1	37.58	
2408	0.15	38.82	
2410	0.44	40.74	
2412	0.61	42.17	
2414	0.75	43.55	
2416	0.7	43.45	
2418	0.48	42.07	
2420	0.31	40.93	
2422	0.21	40.93	
2424	0.17	40.83	
2426	0.17	41.78	
2428	0.21	43.25	
2430	0.13	43.65	
2432	0.01	41.69	
2434	-0.17	40.27	
2436	-0.25	39.81	
2438	-0.18	40.27	
2440	-0.03	40.93	
2442	-0.19	38.73	
2444	-0.44	36.06	
2446	-0.81	33.65	
2448	-1.24	31.84	
2450	-1.58	30.62	
2452	-1.52	30.06	
2454	-1.45	29.38	
2456	-1.37	28.84	
2458	-1.33	28.51	
2460	-1.3	28.31	
2462	-1.12	28.18	
2464	-0.85	29.04	
2466	-0.68	29.72	
2468	-0.68	29.58	
2470	-0.75	28.97	
2472	-0.87	29.65	
2474	-1.08	29.31	
2476	-1.11	28.91	
2478	-0.86	29.11	
2480	-0.48	30.06	

3. antenna 3D pattern



4. antenna 2D pattern



5. antenna engineering drawing

