

Antenna specification for approval

Customer name: 胜华玛

Model : 30D

Antenna type : WIFI antenna

Antenna frequency band: 2.4/5.8G

Material : FPC

Color : Black

Material Number: F1600A-1L10B-120-A

Production date: 2026-01-19

Version: A

Admit that signature			
Confirmation Signature		Customer Approved	
Responsible		Responsible	
QC		Engineer	
Approve		Approve	
Date		Date	

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This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI antenna.

- Antenna shape size: Meet the requirement of MID project
- Antenna band: 2400MHz~2500MHz,5150MHz~5850MHz
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID

Antenna performance SPEC overview

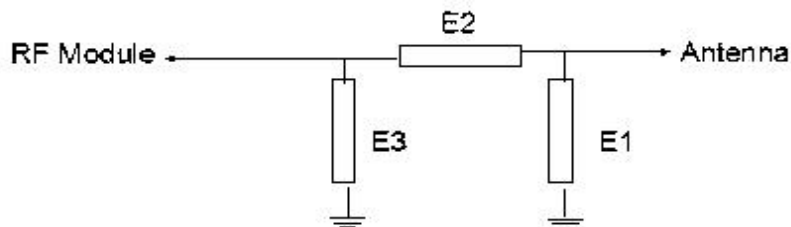
Description	2.4GHz~2.5GHz 5.15GHz~5.85GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 50	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

• Mechanical Information

Mechanical Dimension	
Cable Length	040mm/Black
Description	WIFI antenna
Material	FPC
Coaxial Cable	50Ohm/O.D.1.13mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

2:Match the circuit diagram, antenna images

2.1 Match the circuit diagram



Our company did not modify the antenna matching

2.2 Machine and Antenna images



3: VSWR、Efficiency

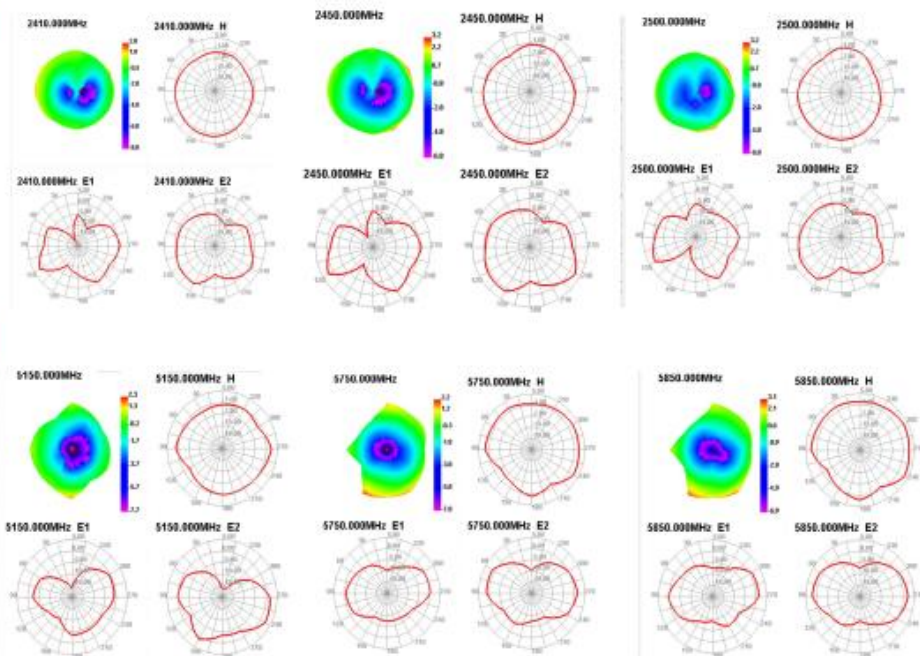
3.1 VSWR



3.2 Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	64.61	-1.9	1.88
2410	64.4	-1.91	2.05
2420	70.94	-1.49	2.59
2430	68.93	-1.62	2.52
2440	71.78	-1.44	2.88
2450	74.95	-1.25	3.2
2460	71.52	-1.46	3
2470	65.82	-1.82	2.7
2480	67.02	-1.74	2.81
2490	70.54	-1.52	3
2500	72.94	-1.37	3.21

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	50.58	-2.96	2.33
5200	49.8	-3.03	2.08
5250	48.27	-3.16	1.2
5300	51.41	-2.89	1.62
5350	54.12	-2.67	1.53
5400	54.43	-2.64	1.4
5450	56.28	-2.5	1.21
5500	64.08	-1.93	1.19
5550	56.52	-2.48	1.51
5600	56.73	-2.46	1.29
5650	65.88	-1.81	2.27
5700	73.41	-1.34	2.72
5750	62.07	-2.07	2.24
5800	65.57	-1.83	2.66
5850	74.88	-1.26	3.11



4:Structural drawings

