

2 Overview

(1)Antenna performance

- 1.This approval sheet supports for MID project. FPC antennas include in this project. This report is for the performance of WIFI&BT antenna.
- 2.Antenna shape size: Meet the requirement of MID
- 3.Antenna band: 2.4GHz~5GHz
- 4.Antenna material: Antenna material meet the requirement of MID
- 5.Adhesive performance: Adhesive performance meet the requirement of MID
- 6.Antenna performance meet the spec below:

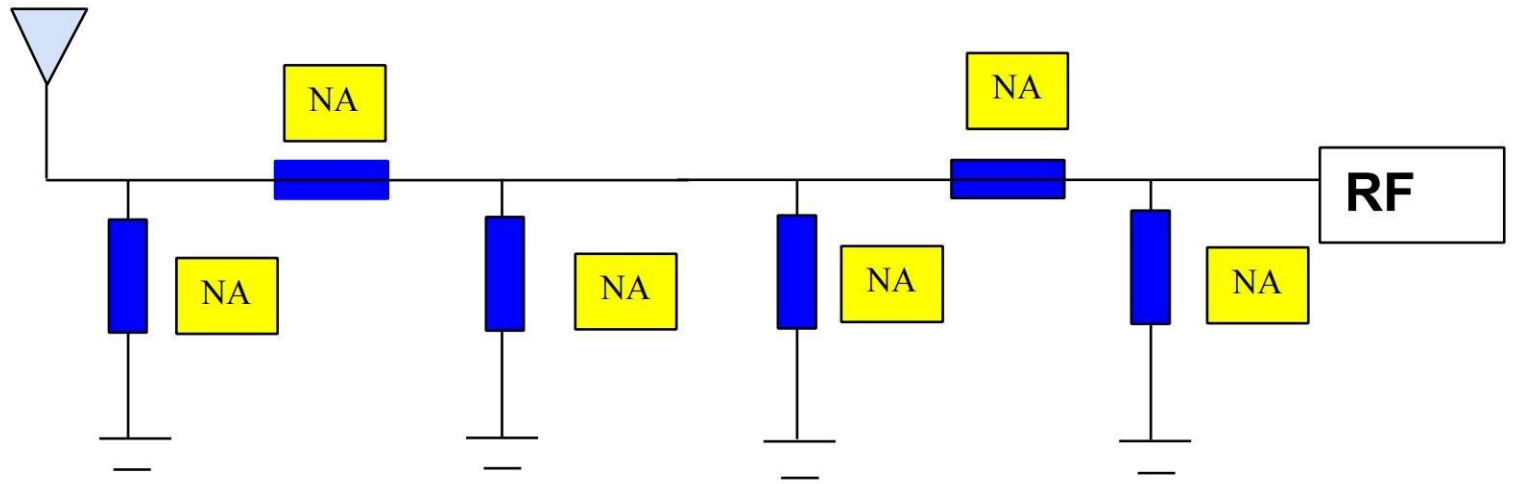
Description	2.4GHz~5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

(2)Mechanical Information

Mechanical Dimension	
Cable Length	100mm/BLACK
Description	WIFI&BT antenna
Material	FPC
Coaxial Cable	500hm/O. D. 0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

3 Matching Circuit & Machine Picture & Antenna Picture

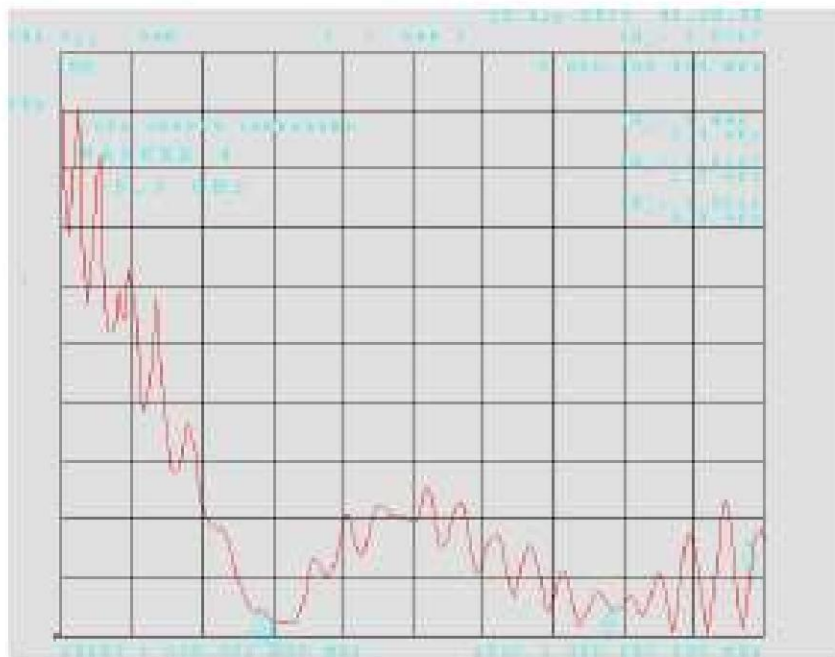
(1) Matching Circuit



(2) Machine Picture & Antenna Picture



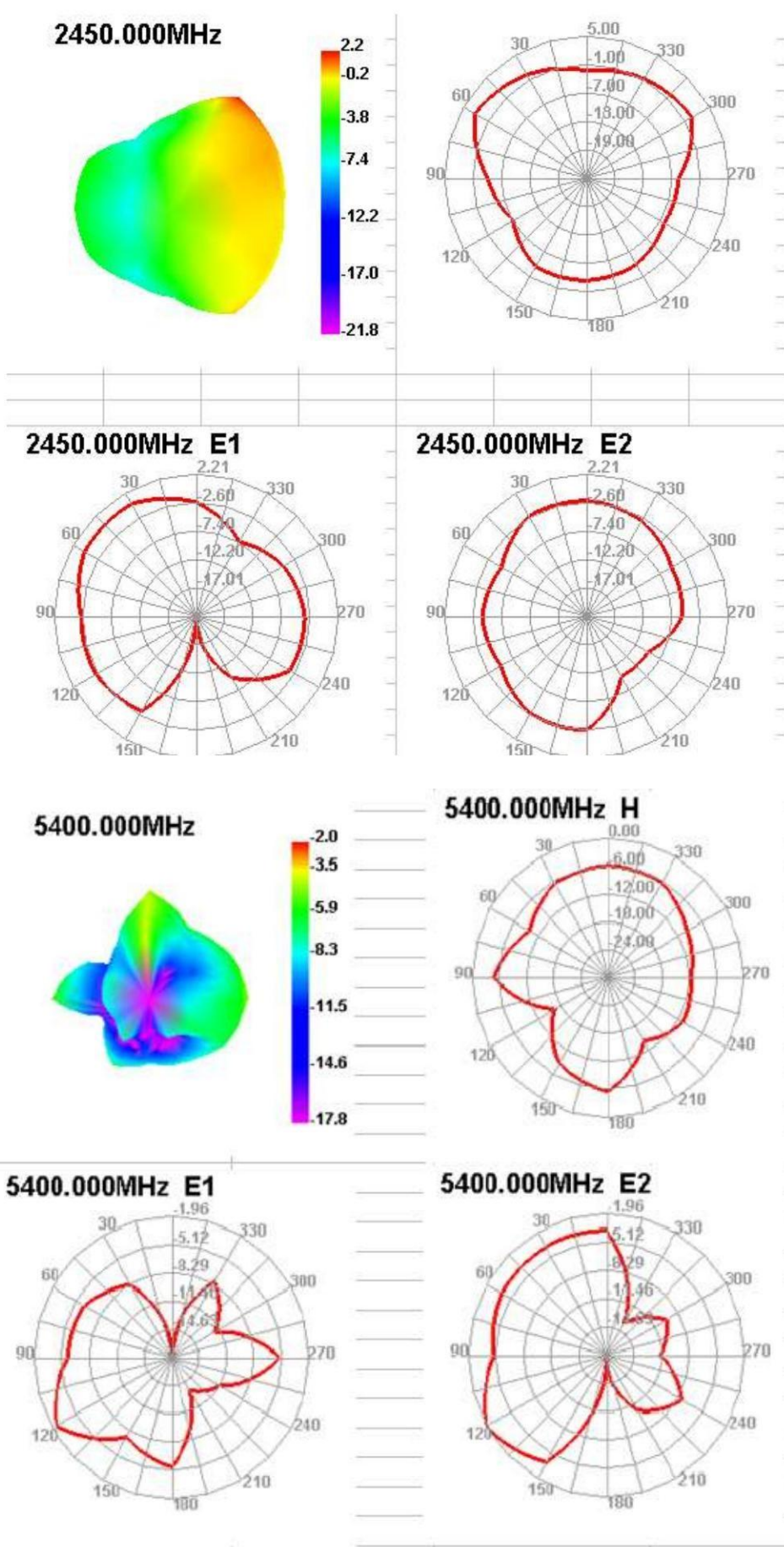
4 Antenna Standing Wave Ratio & Antenna Efficiency (VSWR)



Frequency (MHz)	VSWR
2400	1. 25
2450	1. 18
2500	1. 16
5400	1. 50

Frequency	Efficiency (%)	Average GAIN(dB)	Peak GAIN (dBi)
2400	40.43	-4.23	1.33
2450	39.43	-4.21	1.56
2500	39.21	-4.11	1.42
4800	31. 04	-5. 08	0. 67
5400	29. 77	-5. 26	0. 61
5900	27. 92	-5. 54	0. 53

5 3D Pattern



6 Structural Drawings