

Antenna specification for approval

Customer name: 尚蓝柏

Model : bluetooth speaker

Antenna type : WIFI antenna

Antenna frequency band: 2.4G

Material : FPC

Color : Black

Material Number: F1045A-1L11B-080-A Production date: 2020-11-13

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
- Antenna material: Antenna material meet the requirement of MID
- Adhesive performance: Adhesive performance meet the requirement of MID

Antenna performance SPEC overview

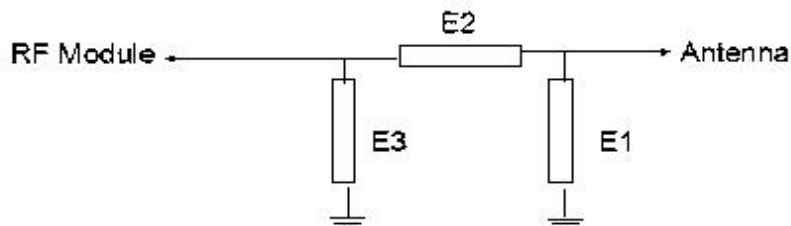
Description	2.4GHz~2.5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ 1.0	dB
Antenna Efficiency	≥ 40	%
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

● Mechanical Information

Mechanical Dimension	
Cable Length	080mm/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

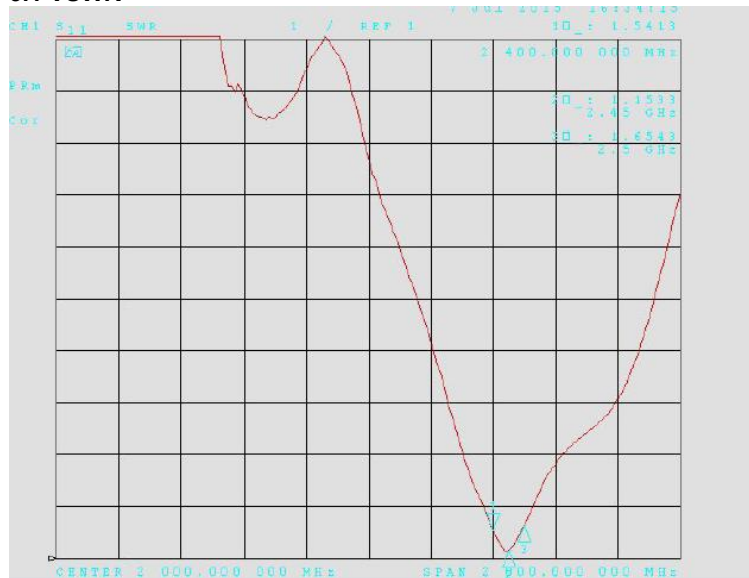
2.1 Match the circuit diagram



Our company did not modify the antenna matching

3: VSWR、Efficiency

3.1 VSWR



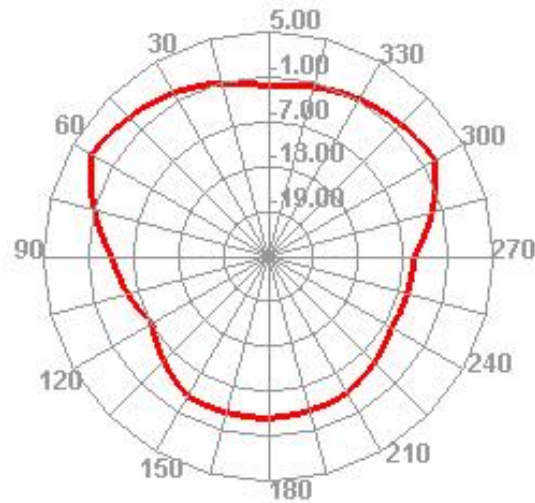
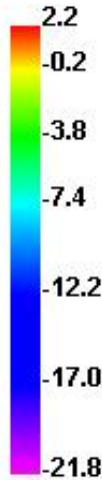
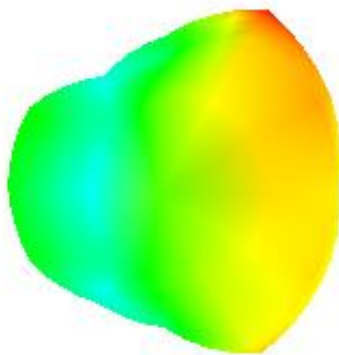
3.2 Efficiency

Frequency (MHz)	VSWR
2400	1.22
2450	1.32
2500	1.80

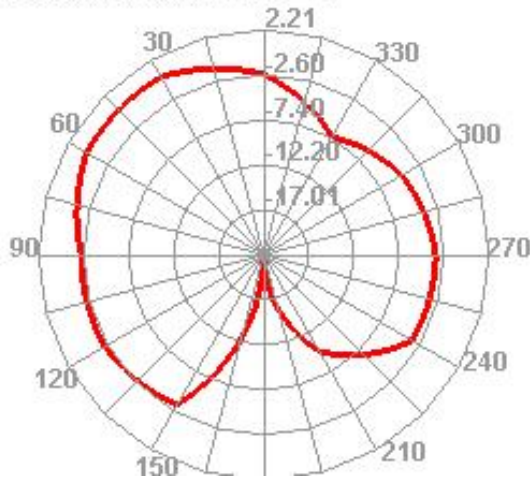
Frequency	Efficiency (%)	Average GAIN(dB)	Peak GAIN (dBi)
2400	39.74	-4.01	1.16
2450	41.46	-3.93	1.34
2500	40.92	-3.88	1.26

4 :3D pattern

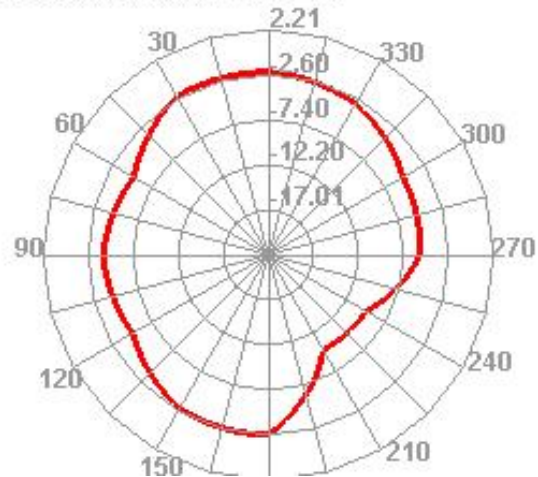
2450.000MHz



2450.000MHz E1



2450.000MHz E2



5: Structural drawings

