

Product Specification Sheet

Mobile communication terminal antenna

Product design and manufacturing

PRODUCT NAME: WIFI antenna

1.Overview of product categories and product models

1.1 Product Model Overview

This report mainly summarizes the electrical results of the antennas designed for the project.

This antenna is designed for the WiFi(2.4G) band.

2.1 Technical indicators

Product electrical performance indicators	
Working frequency range	2412~2472 MHz:
	2412~2472 MHz: ≤1.5
	2412~2472 MHz: ≥1.5dbm
	2412~2472 MHz: ≥25%
Impedance	50 ohm
Product material description	
FPC	Electrolytic copper+PI
Product environmental Description	
Working temperature	- 30℃ ~ + 85 ℃
Storage temperature	- 30℃ ~ + 85 ℃

2.2 Experimental Equipment Description

List	Testing project	Equipment
1. S Parameters	1.Return loss 2. VSWR at	Network analyzer: Agilent 8753ES
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960 E5515C
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain	1. Darkroom: 7x4x3 m (3D) 2. Network analyzer : Agilent 8753ES

3.Description of the matching circuit

Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		

4. Product test report

4.1 WIFI Antenna test data

MHZ	%	dbi
2412	35.6	1.56
2422	36.8	1.28
2432	36.9	1.22
2442	38.2	1.15
2452	32.1	1.08
2462	30.2	1.42
2472	30.1	1.5

4.2BT Antenna test data

(MHZ)	(%)	(dBi)
2420	36.5	1.49
2430	37.2	1.19
2440	38.6	1.15
2450	33.5	1.32
2460	31.5	1.43
2470	31.1	1.39
2480	30.5	1.47



BOM					
ITEM	COMPONENT	DESCRIPTION	Q'TY	P/N	VENDOR
1	CABLE	RF1.13 黑色L=30mm	1PCS		
2	端子	CM-113-BU	1PCS		
3	PPC	17.2*5.4mm (料号: 250-PT001) 白色字符	1PCS		

