

深圳市欧皇通讯科技有限公司

Shenzhen Ouhuang Communication Technology Co., Ltd.

Product Specification

Connection:

Encoded:

Model: P1JZ

specifi
Cations:

FPC 27.05*20.20mm, L=110mm, ϕ 1.13mm,

date: 2022-10-18

0755-23713891

0755-61193120

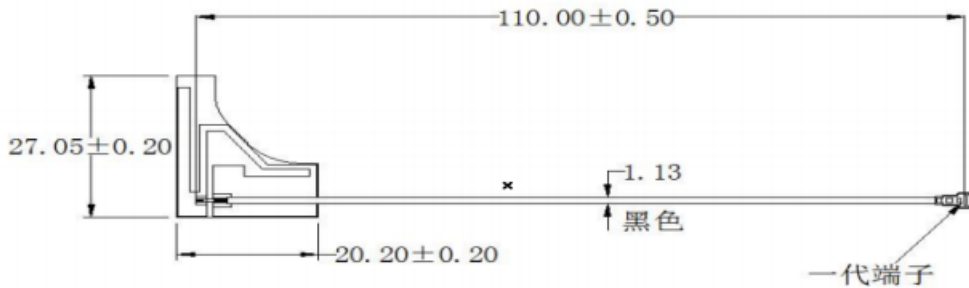
Catalogue

1. Summary	3
2. appearance	3
3. Electrical performance	3
3.1. Frequency Range	3
3.2. Circuit	3
3.3. Impedance	3
3.4. Test Data	4
3.5. WiFi Signal Intensity	8
4. Antenna position	8
5. Structure	9

1.Recognition overview

This acknowledgement describes the status of P1JZ antenna,The frequency band is 2.4G,

2. Appearance

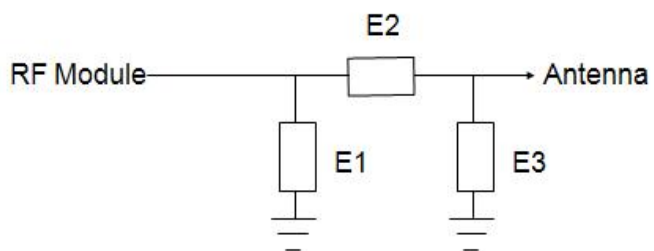


3. Electrical performance

3.1 Antenna frequency band

Transmit/receive frequency band	WIFI
	2.4G~2.5G

3.2 Matching circuit



Element	Value
E1(0402)	Original match
E2(0402)	Original match
E3(0402)	Original match

3.3 Impedance requirements

50 ohm

3.4 Antenna passive test data

2. 4G

Electrical Properties	
Frequency	2. 4GHz-2. 5GHz
Impedance	50 ohm Nominal
V. S. W. R	1: 1.21 Max
Return Loss	-20.11dB Max
Radiation	Omni-directional
Polarization	Linear, Vertical

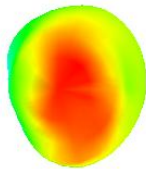
VSWR&Return Loss&Smith Chart:



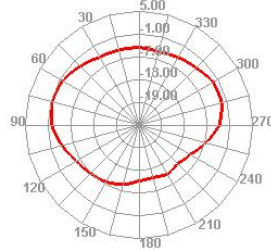
Efficiency/gain/directionality:

Passive Test For 2.4G_wifi						
Freq	Effi	Effi	Gain	Gain	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(dB)	(dB)
2400	63.81	-2.35	3.04	0.89	3.04	-15.21
2440	64.35	-2.23	3.02	0.85	3.02	-16.01
2500	62.86	-2.49	2.46	0.31	2.46	-16.44

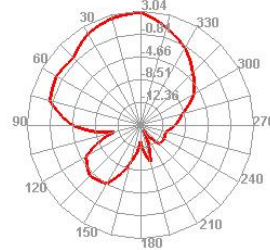
2400.000MHz



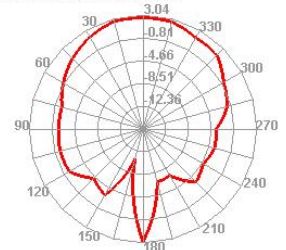
2400.000MHz H



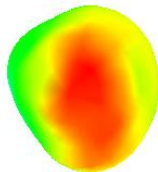
2400.000MHz E1



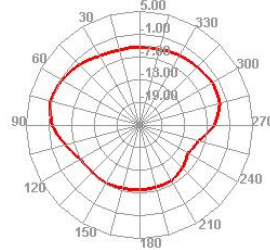
2400.000MHz E2



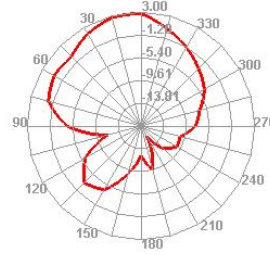
2440.000MHz



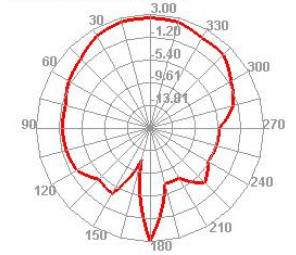
2440.000MHz H



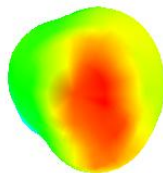
2440.000MHz E1



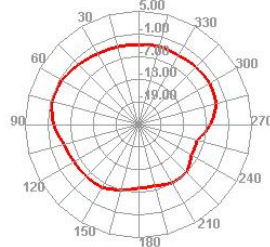
2440.000MHz E2



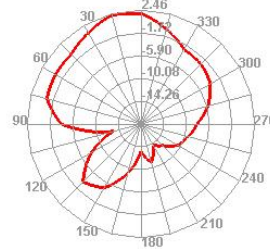
2500.000MHz



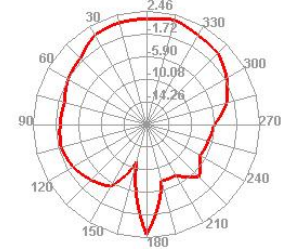
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Coaxial antenna 2.4G data

Electrical Properties	
Frequency	5.1GHz-5.9GHz
Impedance	50 ohm Nominal
V. S. W. R	1: 1.22 Max
Return Loss	-19.99dB Max
Radiation	Omni-directional
Polarization	Linear, Vertical

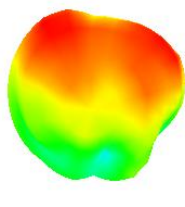
VSWR&Return Loss&Smith Chart:



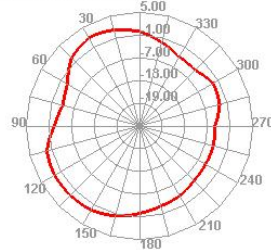
Efficiency/gain/directionality:

Passive Test For 2.4G_wifi						
Freq	Effi	Effi	Gain	Gain	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(dB)	(dB)
2400	62.68	-0.93	2.86	0.71	2.86	-16.9
2440	63.56	-1.05	2.99	0.84	2.99	-15.39
2500	60.84	-1.72	2.67	0.52	2.67	-16.59

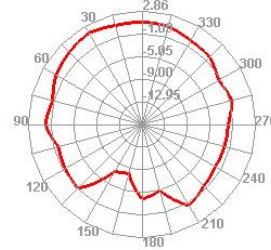
2400.000MHz



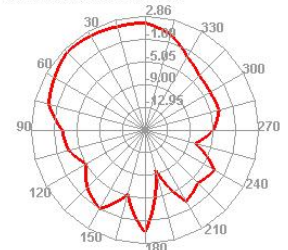
2400.000MHz H



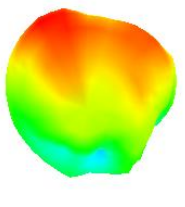
2400.000MHz E1



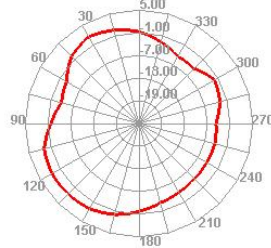
2400.000MHz E2



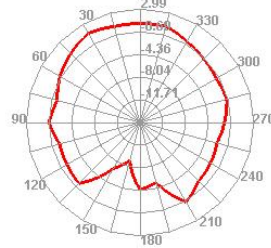
2440.000MHz



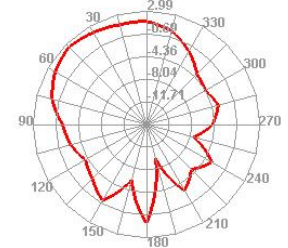
2440.000MHz H



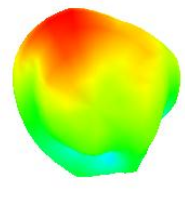
2440.000MHz E1



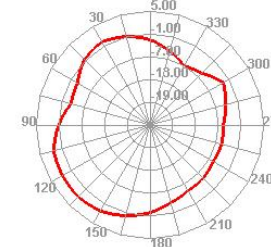
2440.000MHz E2



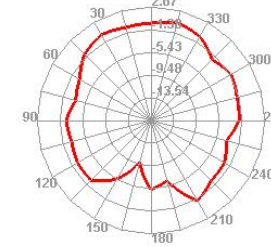
2500.000MHz



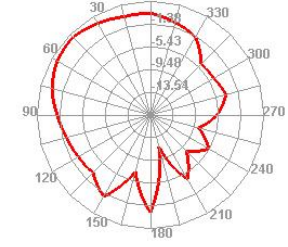
2500.000MHz H



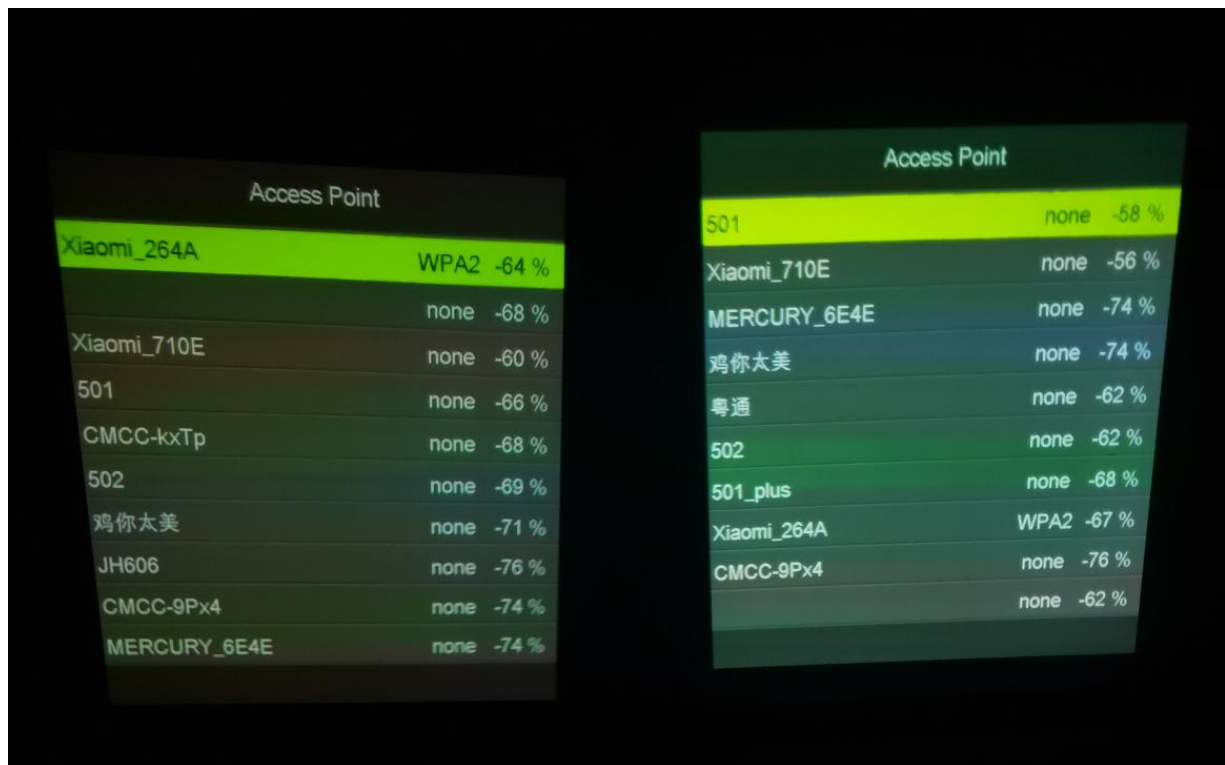
2500.000MHz E1



2500.000MHz E2



3.5 WIFI signal strength comparison



Access Point	
Xiaomi_264A	WPA2 -64 %
	none -68 %
Xiaomi_710E	none -60 %
501	none -66 %
CMCC-kxTp	none -68 %
502	none -69 %
鸡你太美	none -71 %
JH606	none -76 %
CMCC-9Px4	none -74 %
MERCURY_6E4E	none -74 %

Access Point	
501	none -58 %
Xiaomi_710E	none -56 %
MERCURY_6E4E	none -74 %
鸡你太美	none -74 %
粤通	none -62 %
502	none -62 %
501_plus	none -68 %
Xiaomi_264A	WPA2 -67 %
CMCC-9Px4	none -76 %
	none -62 %

Coaxial antenna

FPC antenna