

Sample acknowledgment

FPC(RC MPS4050)-1.13-L50-IPEX-WIFI2.4G

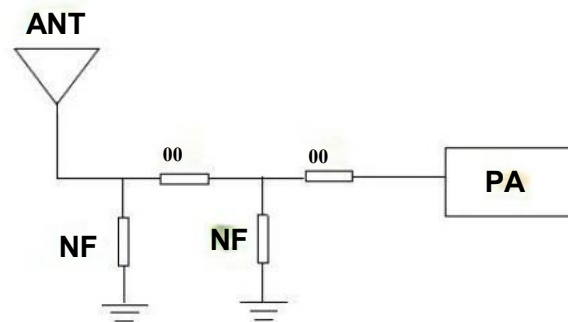
specifications and models	FPC(RC MPS4050)-1.13-L50-IPEX-WIFI2.4G			
brand		Send sample date	2021/10/19	
Sample Number (material number)	Fill in the corresponding material number of the customer	Supplier material number		
sample size	5	PCS/individual	MPQ	
Type of supplier	<input type="checkbox"/> Production <input type="checkbox"/> agent <input type="checkbox"/> trade <input type="checkbox"/> Other			
Name of supplier:	Shenzhen Ruicai Electronic Technology Co., LTD			
address:	North wing of 5th floor, Building 1, Weixin Software Science and Technology Park, No.9, Gaoxin South 9 Road, South District, Nanshan Science and Technology Park, Shenzhen			
Business contact person:	Zhou Zhaojie	telephone:	13430459789	postbox: zhouzhaojie@reecam.net
technical support:		telephone:		postbox:
check:	QA:	engineering:		
<p>Note: The above information shall be filled in by the supplier</p> <p>Please provide several samples, paper file recognition cover and specification in duplicate, electronic file specification (email form)</p> <p style="color: red;">Please fill in the above carefully, please provide the information correctly, otherwise refuse!!!</p>				
(The following contents shall be filled in by FOSCAM personnel)				
Applicable machine				
First sample delivery				
Date of sample delivery:	Acknowledgement person 1:		Admit date:	
	Recognize person 2:			
bear fruit	<input checked="" type="checkbox"/> Qualified <input type="checkbox"/> unqualified <input type="checkbox"/> Other remarks:			
suggestion	<input type="checkbox"/> small batch trial production	<input type="checkbox"/> Qualified <input type="checkbox"/> Unqualified Note:		
	Batch trial production in <input type="checkbox"/>	<input type="checkbox"/> Qualified <input type="checkbox"/> Unqualified Note:		
The second sample				
Date of sample delivery:	Acknowledgement person 1:		Admit date:	
	Recognize person 2:			

bear fruit	<input type="checkbox"/> Qualified <input type="checkbox"/> Unqualified <input type="checkbox"/> Other remarks:	
suggestion	<input type="checkbox"/> small batch trial production	<input type="checkbox"/> Qualified <input type="checkbox"/> Unqualified Note:
	Batch trial production in <input type="checkbox"/>	<input type="checkbox"/> Qualified <input type="checkbox"/> Unqualified Note:
article number		Admit the chapter
description		

1. Test items and equipment

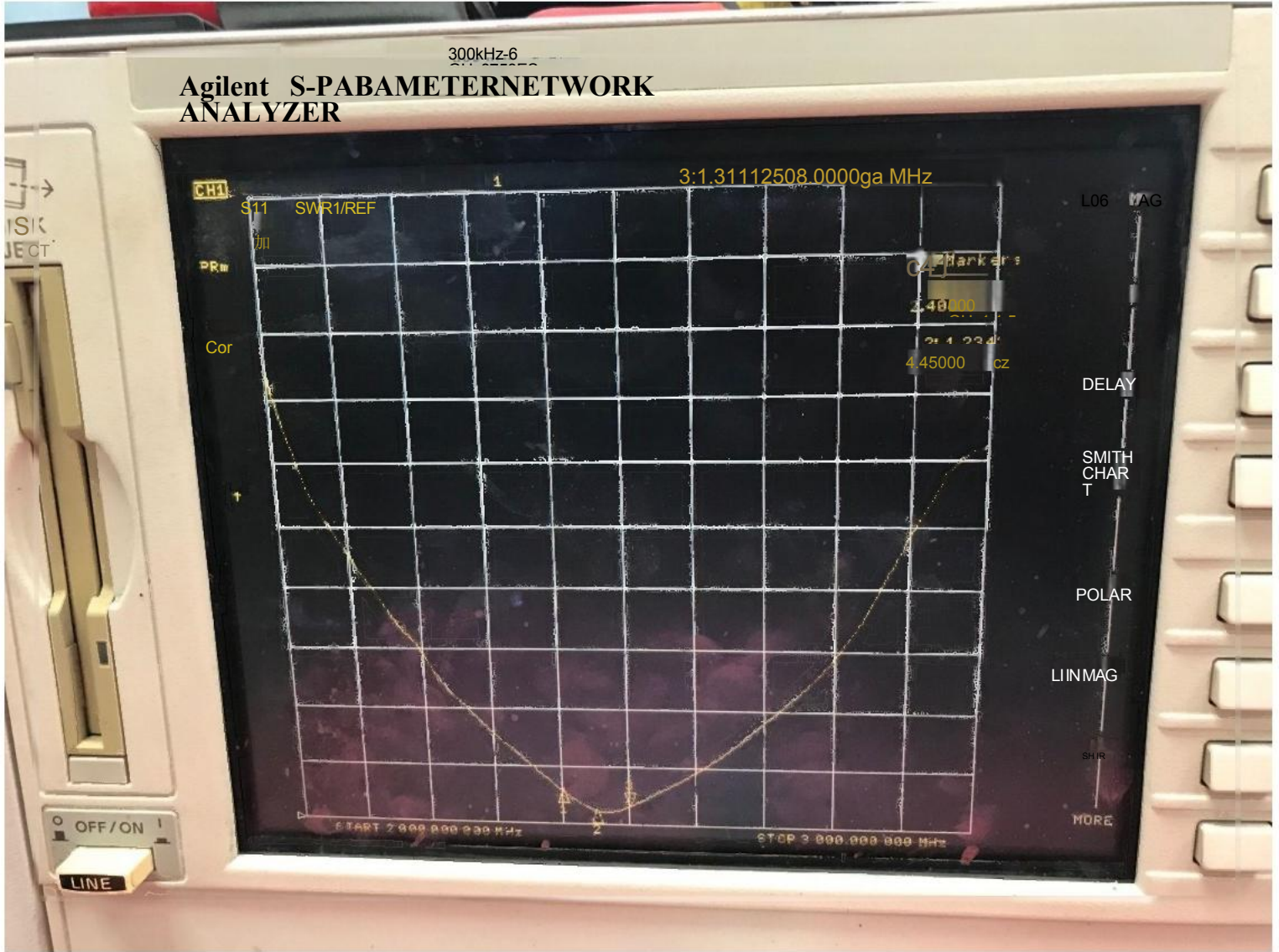
	test item	equipment
1. S11 parameters (S-parameter)	1. Echo loss (Return Loss) 2. Voltage standing wave ratio (VSWR)	Network analyzer: Agilent E5071B HP8753D
2. Active testing (Active)	1. Emission Power (TRP) 2. Receiving Sensitivity (TIS)	1. Dark room: ETS 7x4x3 m (3D) ChamberETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515B 2 StarPointSP6011
3. passive test (Passive)	1. Antenna Gain(Gain)2. Antenna efficiency (Efficiency)	1. darkroom: ETS 7x4x3 m(3D)ChamberETS 5x3x3m(3D)Chamber 2. network analyzer: Agilent E5071BHP8753D

2. Matching Circuit-Antenna:



We have not made any modifications to the matching circuit

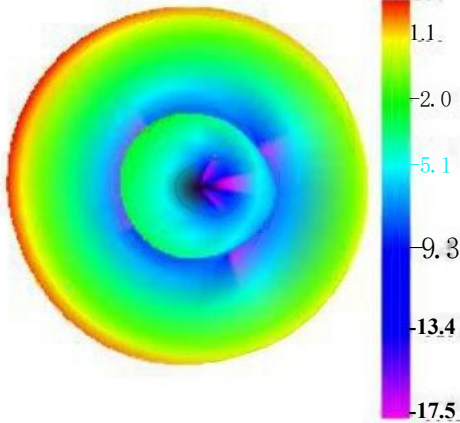
3. Antenna Performance



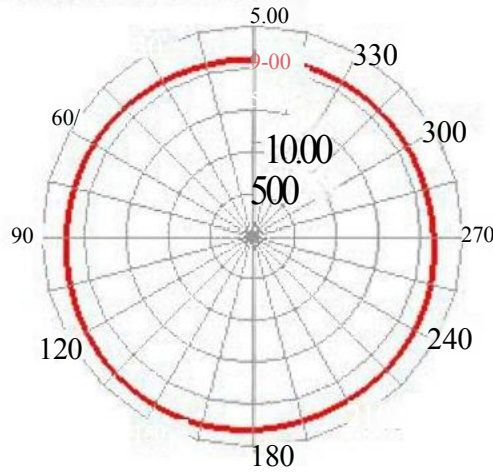
4. Antenna Test Data

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	64.87	-1.88	3.04	0.89	39.258	25.616	3.04	-10.56	48.09	47.94
2410	64.93	-1.88	3.19	1.04	39.664	25.266	3.19	-9.99	48.07	47.87
2420	64.09	-1.93	3.19	1.04	39.526	24.568	3.19	-9.58	48.18	48
2430	63.42	-1.98	3.15		39.483	23.935	3.15	-10.3	48.17	47.99
2440	64.44	-1.91	3.16	1.01	40.314	24.128	3.16	-10.44	48.33	48.11
2450	65.27	-1.85	3.08	0.93	40.884	24.383	3.08	-10.72	48.44	48.14
2460	64.99	-1.87	2.9	0.75	40.601	24.389	2.9	-12.44	48.41	48.06
2470	65.62	-1.83	2.83	0.68	40.834	24.788	2.83	-14.61	48.49	48.11
2480	65.19	-1.86	2.74	0.59	40.523	24.667	2.74	-17.58	48.63	48.18
2490	64.68	-1.89	2.66	0.51	40.414	24.269	2.66	-19.56	48.76	48.29
2500	62.89	-2.01	2.49	0.34	39.738	23.153	2.49	-21.19	48.69	48.16

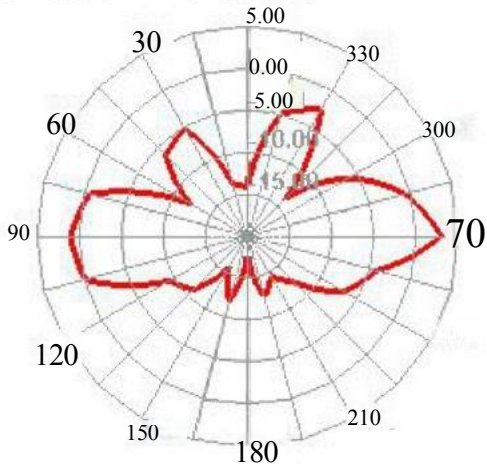
2400.000MHz



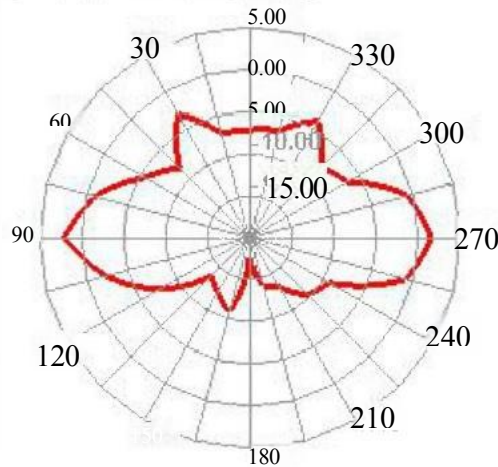
2400.000MHz H



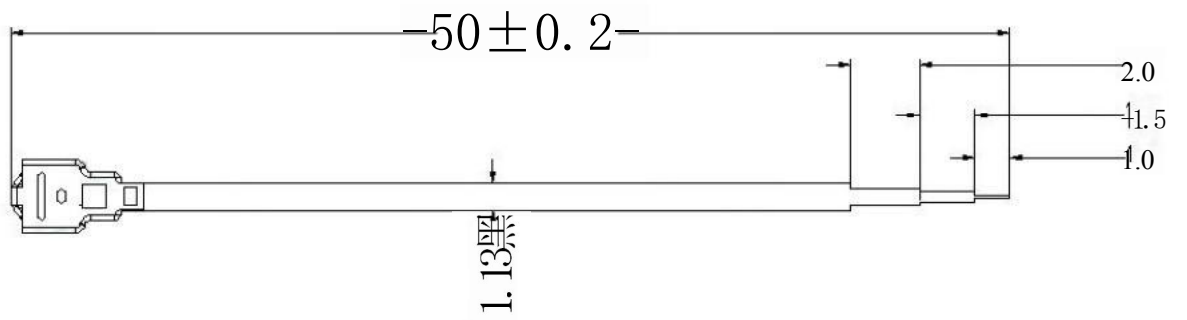
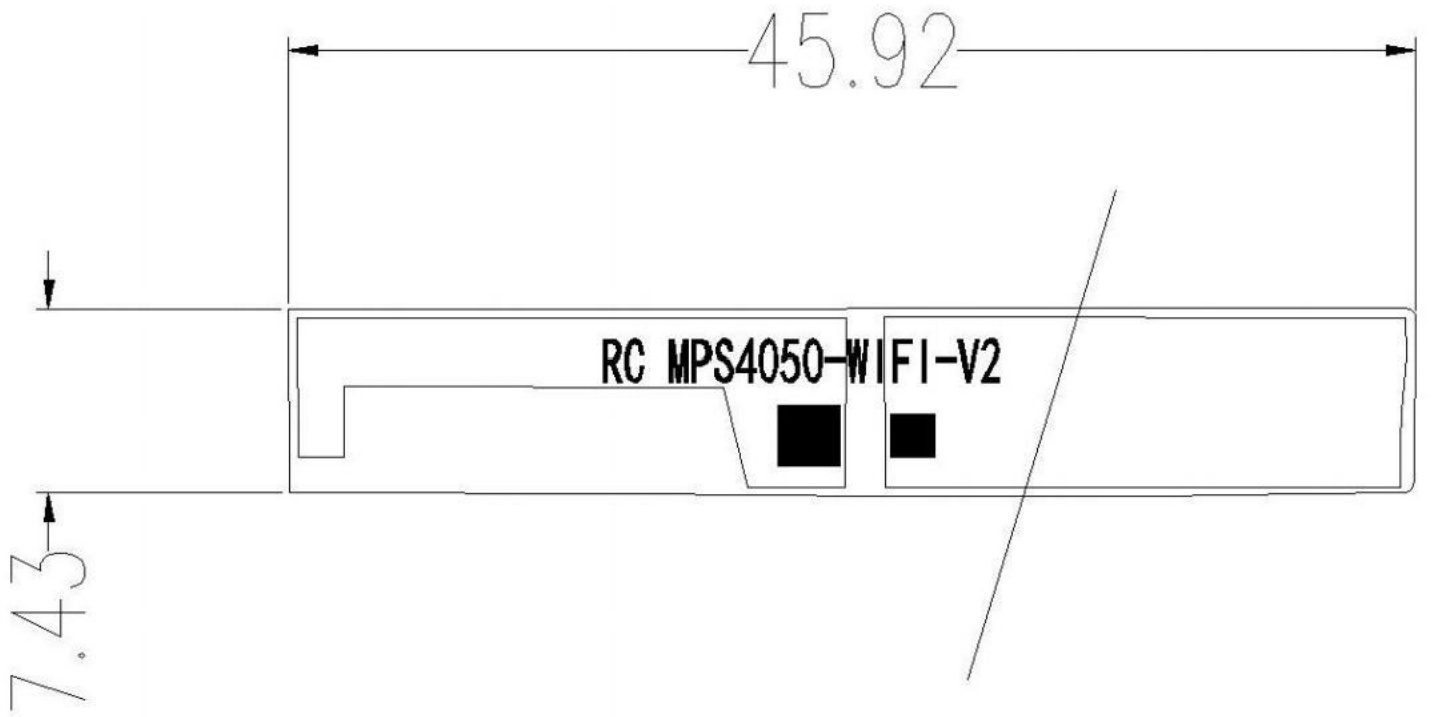
2400.000MHzE1



2400.000MHzE2



5. Antenna Structure Diagram



Technical parameters of electrical appliances

Electrical Performance Indicators		Electrical Specifications	
frequency range	2400~2500 MHz	Frequency Range	2400~2500 MHz
voltage standing-wave ratio	≤ 2.0	VSWR	≤ 2.0
gain	3 DBI	Gain	3 DBI
input impedance	50 Ω	Input Impedance	50 Ω
Maximum input power	50W	MaximumInput Power	50W
Mechanical indicators		Mechanical Specifications	
Antenna color	black	Antenna Color	Black
Interface form	IPEX-take the place of	Input connector	IPEX-1
Wire length	50 mm	Cable length	50 mm
working temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	Working Temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C
Working humidity	20~80%	Working Humidity	20~80%

RF113 specification

1. Scope of application

This specification defines the structure and electrical characteristics of the wires

Coaxial
1 line
of AWG
32

1.Scope

This specification covers the construction and the electrical properties of wire

Coaxial
WireAWG
32
Unit / Unit: mm

2. Structure / Construction

project /Item	unit /Unit	Details on / Details
Conductor conductor	Material / Material	Grooving silver copper wire Silver-coatedcopper wire
	Composition of / Composition	(No./mm) 7/0.08
	external diameter /OD.	mm 0.24
	Stringing direction / Orientation	S
Insulation Insulation layer	Material / Material	FEP (imported material)
	Insulation color / Insulation color	True color / Natural
	Nominal insulation thickness /	mm 0.22
	Insulation wire diameter / OD.	mm 0.69
Braid Shield Weave it	Material / Material	tinned copper wire Tinned copper wire
	Composition of / Composition	(No./mm) 16/4/0.05
	Woven density / Coverage	(%) >=90
Jacket eaderon	Material / Material	FEP
	Nominal insulation thickness / Nom. Thickness	mm 0.12
	external diameter /OD.	mm 1.13±0.10

3. Electrical Properties (at 20°C) / Electrical characteristics (at 20°C)

project /Item	unit /Unit	Details on / Details
Conductor resistance / Conductor Resistance	Q/km	571 (Max.)
Insulation resistance / Insulation Resistance	MO • km	100 (Min.)
Compressive strength (AC) / Dielectric Strength (AC)	V/1 Min	500
Characteristic impedance / Impedance	Ω	50±3
Temperature resistance grade / Temperature	°C	200
Rated voltage / rated voltage	V	30

4. The wire section

