

Examining Report

Customer name: _____

Debugging models: _____

Kexin wireless material number: AG-040033-1321 _____

Specification description: WIFI built-in antenna (FPC 259) -Black
1.13-line-terminal (4 generation), L=120mm

Factory signature:

Edit	Check	Approve
Qiu Cuiping	He Xing	Hu Chong

Client
signature:

Edit	Check	Approve

Shenzhen Kexin wireless contact information

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Document development / revision / abolished CV

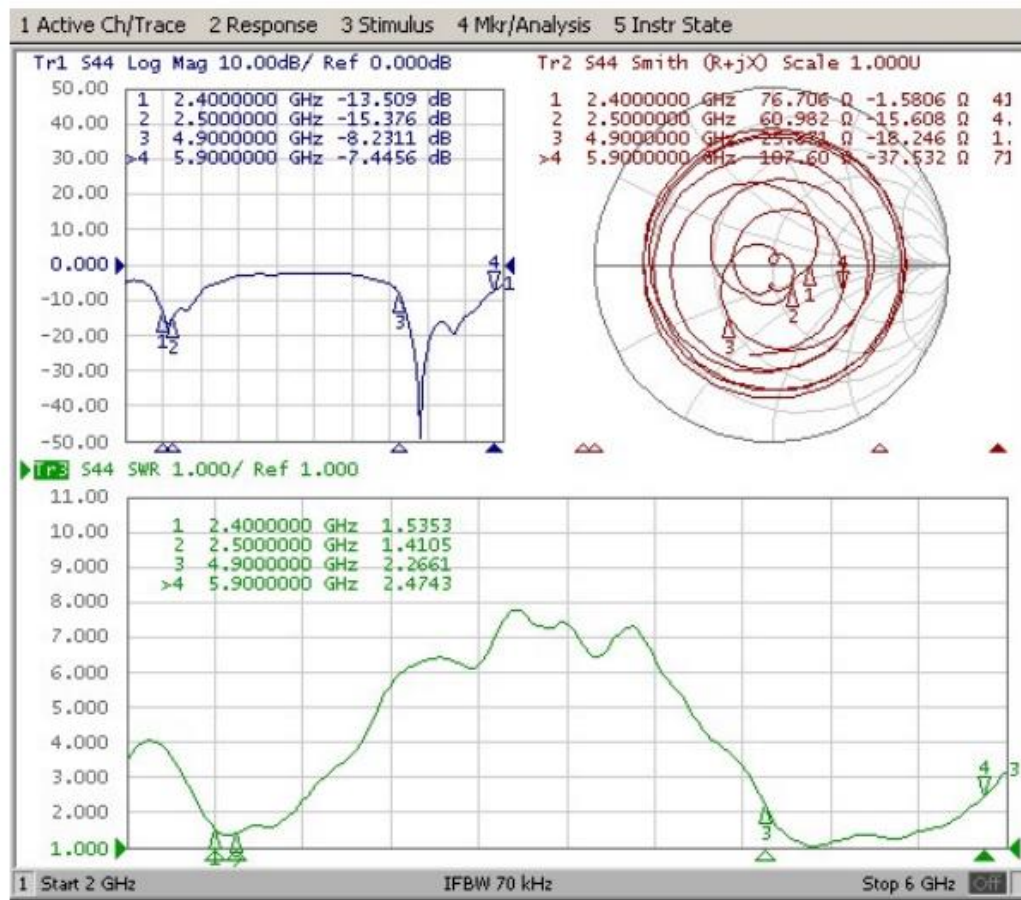
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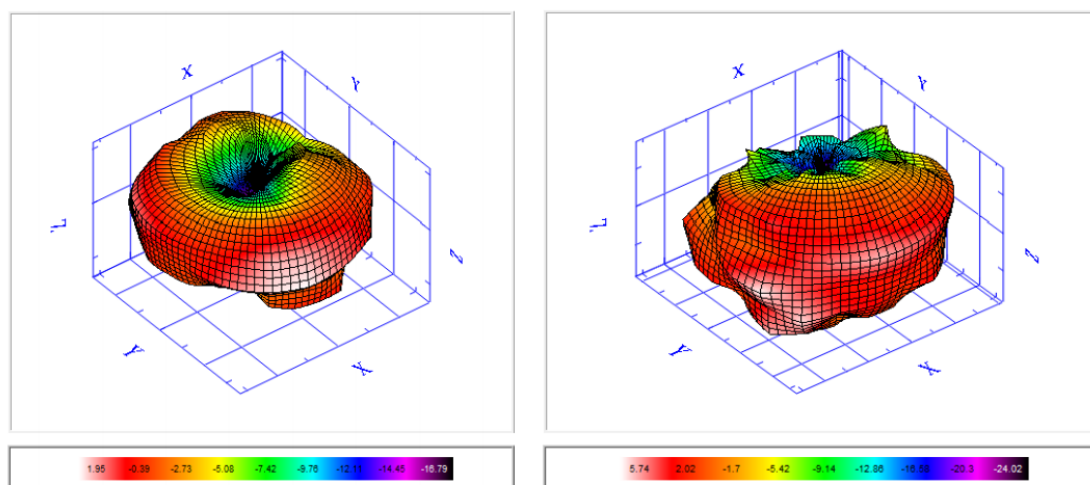
Electrical parameters	
frequency range	2400-2500/4900-5900MHz
input impedance	50Ω
standing-wave ratio	Control the seal of the project
maximum gain	/
power capacity	1w
Through the test	thoroughfare
Polarization mode	linear
radiation direction	omnidirectional
Connector model	terminal
Mechanical parameters	
wire length	120±3mm
maintenance energy	1KG
coax	Black 1.13 line
Salt Spray Test	24H
enviromental parameter	
working temperature	-20°C~40°C
Storage temperature	-20°C~40°C

5. Electrical performance test report



Frequency	5150	5250	5350	5470	5600	5700	5725	5785	5800	5850
E-Total Peak Gain (dBi)	5.43	5.28	6.07	5.74	5.32	5.9	6.17	6.95	6.73	6.29
Efficiency (%)	65.61	65.77	71.9	65.94	64.75	60.43	72.92	75.56	72.47	77.89
Average Gain (dB)	-1.83	-1.82	-1.43	-1.81	-1.89	-2.19	-1.37	-1.22	-1.4	-1.09

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	1.78	1.79	1.77	1.91	1.71	1.95	2.06	2.29	2.47	2.31	2.8
Efficiency (%)	52.03	52.9	55.32	53.97	50.38	50.26	51.78	55.93	61.1	59.06	58.83
Average Gain (dB)	-2.84	-2.77	-2.57	-2.68	-2.98	-2.99	-2.86	-2.52	-2.14	-2.29	-2.3



2450MHz

5850MHz

6. 2. steady temperature damp test

Test / test items	steady temperature damp test	Inspection sheet number
Product name / specification	WIFI built-in antenna (FPC 259) -Black 1.13 Line-terminal (4 generations) L=120mm	Number of tests: 5 PCS
Date of inspection: 2017-08-01, 2017	Completion date: 8-02-08, 2017	
Test / inspection equipment: 1. Programtable constant temperature and humidity test box 2. 8753 ES Network Analyzer		
Test / Inspection Conditions: 1. Test at 25° C and 65% humidity 2 hours a cycle, a total of 24 2. +80° 85~90%RH hours;		
<div style="text-align: center;">f r e q u e n c y t e s t r e q u i r e m e n t</div>		
requirement: 1. The metal surface coating shall not have peeling, cracking, separation, etc.; the non-metallic part shall not have discoloration, cracking, deformation, bonding and other bad; 2, the electrical test meets the standard requirements: the voltage standing wave ratio test is qualified		

inspecting item	Before the constant temperature and humidity test	After the constant- temperature and humidity test	Defect description	Determine the result
surface	Appearance without discoloration, cracking and change	Appearance without discoloration, cracking,	not have	qualified

	Form, off glue	deformation, come unglued		
Electric performanc e	Antenna voltage standing out of the wave ratio test qualified	Antenna voltage wave ratio test rattle	not have	qualified

Test / inspection
determination:

qualifie
d

unqualified

does not
make a
judgment

Test: Liu Hua

Review: Jiang Hongying

6. 3. High and low temperature hot and cold shock

Test / test items	High and low temperature hot and cold shock		Inspection sheet number					
Product name / specification	WIFI built-in antenna (FPC 259) -Black 1.13 line-terminal (4 generations), L=120mm		Number of tests: 5 PCS					
Date of inspection: 2017-08-01, 2017			Completion date: 8-02-08, 2017					
Test / inspection equipment:								
1. High and low temperature alternating wet and heat box 2. 8753 ES Network Analyzer								
Test / Inspection Conditions:								
-40℃ (2H) - - - -80℃ (2H) apart, 6 cycles for a total of 24 hours								
<p style="text-align: center;">try examine bear fruit</p> <p>requirement:</p> <p>1. Metal surface coating shall be no peeling, cracking, separation, etc.; the non-metallic part shall not have discoloration, cracking, deformation, bonding and other bad; 2. Electrical test meets the standard: the voltage standing wave ratio test is qualified.</p>								
inspecting item	Before the hot and cold shock test at high and low temperature	After the hot and cold shock test at high and low temperature	Defect description	Determine the result				
surface	Appearance without discoloration, cracking, deformation, come unglued	Appearance without discoloration, cracking, deformation, come unglued	not have	qualified				
Electric performance	Antenna voltage wave ratio test rattle	Antenna voltage wave ratio test rattle	not have	qualified				

Test / inspection

☒qualif

☐

☐ does not

determination: [REDACTED] ied unqualified make a judgment

Test: Liu Hua Review: Jiang Hongying

6. 4. Salt Spray Test

Test / test items	Salt Spray Test	Inspection sheet number																		
Product name / specification	WIFI built-in antenna (FPC 259) - Black 1.13 Line-terminal (4 generations), L=120mm	Number of tests: 5 PCS																		
Date of inspection: 2017-08-01, 2017		Completion date: 8-02-08, 2017																		
<p>Test / inspection equipment:</p> <p>1. HL-60-SS salt spray tester</p> <p>Test / Inspection Conditions:</p> <p>1. The temperature in the salt spray box is $35 \pm 2^{\circ}\text{C}$; the laboratory temperature is $22 \sim 30^{\circ}\text{C}$; 2. After the salt spray settling speed through 24H spray every 80cm, the concentration of 1-2ML / h sodium chloride on the area is $50 \pm 10\text{g} / \text{L}$, PH value At 6.5 / 7.2</p> <p>Test / inspection result: qualified</p> <table border="1"> <thead> <tr> <th>Sample number</th> <th>order of evaluation</th> <th>Defect description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>qualified</td> <td></td> </tr> <tr> <td>2</td> <td>qualified</td> <td></td> </tr> <tr> <td>3</td> <td>qualified</td> <td></td> </tr> <tr> <td>4</td> <td>qualified</td> <td></td> </tr> <tr> <td>5</td> <td>qualified</td> <td></td> </tr> </tbody> </table>			Sample number	order of evaluation	Defect description	1	qualified		2	qualified		3	qualified		4	qualified		5	qualified	
Sample number	order of evaluation	Defect description																		
1	qualified																			
2	qualified																			
3	qualified																			
4	qualified																			
5	qualified																			

Test / inspection determination:



qualified unqualified



☐ does not make a judgment

Test: Liu Hua

Review: Jiang
Hongying

7, material composition and harmful substances table

Item Times	specifications	material quality	RoHS Test Results (PPM)						The ICP test No	Detection time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	Line 1.13	FEP	ND	ND	ND	ND	ND	ND	CANEC1620206101	16.10.21
		tinned copper wire	ND	11	ND	ND	ND	ND	SHAEC1703484003	17.03.06
2	terminal	PBT	2.97	ND	ND	ND	ND	ND	CE201690477	16.09.07
		phosphor bronze	ND	10	ND	ND	ND	ND	XMNEC1601350204	16.11.08
		metals	ND	12	ND	ND	ND	ND	SHAEC1703484006	17.03.17
3	FPC	FPC flexible circuit board	ND	ND	ND	ND	ND	ND	SHAEC1703438304	17.03.07

Product packaging specifications

PACKING CRITERION

Product Material No.: AG-040033-1321

Product specification: WIFI built-in antenna (FPC 259) -Black
1.13, line-terminal (4 generations), L=120mm

1. labeling requirement

The internal
label is 10cm
long About 6cm
wide

demand	*****		
supplier	Shenzhen Kexin Wireless Technology Co., LTD		
Purchase order number	*****		
material code	*****		
Product name specification	*****	examination clerk	**
Quantity / unit	*****	date of manufacture	****.*.*
remarks	*****		

The outer
label is 10cm
long About 6cm
wide

demand	*****		
supplier	Shenzhen Kexin Wireless Technology Co., LTD		
Purchase order number	*****		
material code	*****		
Product name specification	*****	examination clerk	**
Quantity / unit	*****	date of manufacture	****.*.*
remarks	*****		

2. Job

description

for packing

requirements:

1. Internal

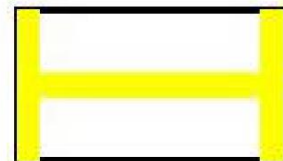
packaging: one bag

of product 50 PCS,

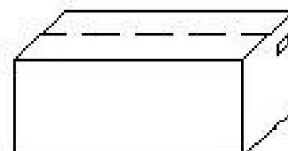
200 PCS, put in a large bag.

2. Packaging:

5000 PCS a boxful



纸箱



matters need attention:

1. Whether to add a partition board, pearl cotton;
2. Attachment of labels, such as ROHS;