



表单编号: CYX-FM-RD004-A

深圳创盈芯实业有限公司

Shenzhen Chuangyingxin technology co., Ltd

材料承认书

Material acceptance

厂 商:

Manufacturer

东莞市松汇实业有限公司

品 名:

Name of a part

AD16 WIFI5G-1天线 0.81 灰色线 4 代端子 L=220MM

料 号:

Part Number

1306000250

物 料 规 格

Material specification

WIFI+BT 天线 硬质 FPC +081 灰色线 L=220mm 4 代端子

制作 Fabrication	审核 Examine and verify	批准 Ratify

Tel:0755-23596969

Company web site:<http://www.cyxtech.com/>

深圳市龙华新区高峰社区科伦特低碳产业园 C 栋

Add: 5 / F, 1 Building, Xiazao Industrial Zone, Zhaohe Road, Fengfeng Community

Longhua New District, Shenzhen City



规格承认书

SPECIFICATION FOR APPROVAL

编号: 2023072401

File No. _____

版本: 1.0

Revision _____

客 户 创盈芯

CUSTOMER: _____

客 户 料 号 1306000250

CUSTOMER NO: _____

品 名 WIFI5G-1 Main Antenna L=220MM

PART NAME: _____

供 方 料 号 **SL136P.300044.P01**

SUPPLIER NO: _____

送样日期 Date: 送样数量 Q'TY: PCS

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi

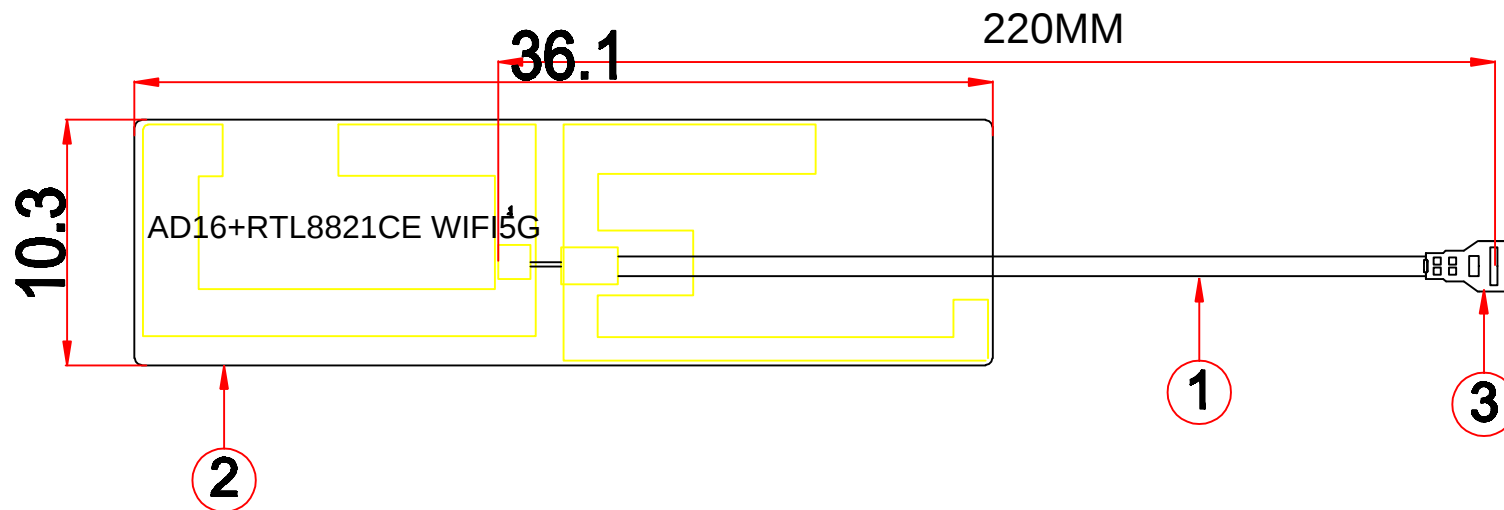
SH-RD-F04-A

add: 东莞市大朗镇巷尾村聚祥二路24号 电话: 0769-82226176 传真: 0769-82226175

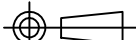


承认书项目表

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10	-	-	-
11	-	-	-
12	-	-	-



3	MHF4	O.D.0.81专用	1
2	FPC	L36.1*W10.3mm	1
1	Coaxial Cable	O.D.0.81 Gray	1
NO	PART NAME	DESCRIPTION	Q.TY

 东莞市松汇实业有限公司 Dongguan Songhui Co., Ltd.			CUSTOMER			
			PART NO			
			TITLE		2.4-5.8GHzAntenna L= 220MM	
			S.H P/NO		SL136P.300042.P01	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
UNIT:mm	ANGLES ±0.5°	X. ±2.0	A4	LUOYI	ZOUJIE	
SHEET: 1/1	X.XX ±0.2	XX. ±5.0				
SCALE: 1/1	X.X ±0.5	DATE:2023-07-21				



电 性 测 试 报 告

Test Reports

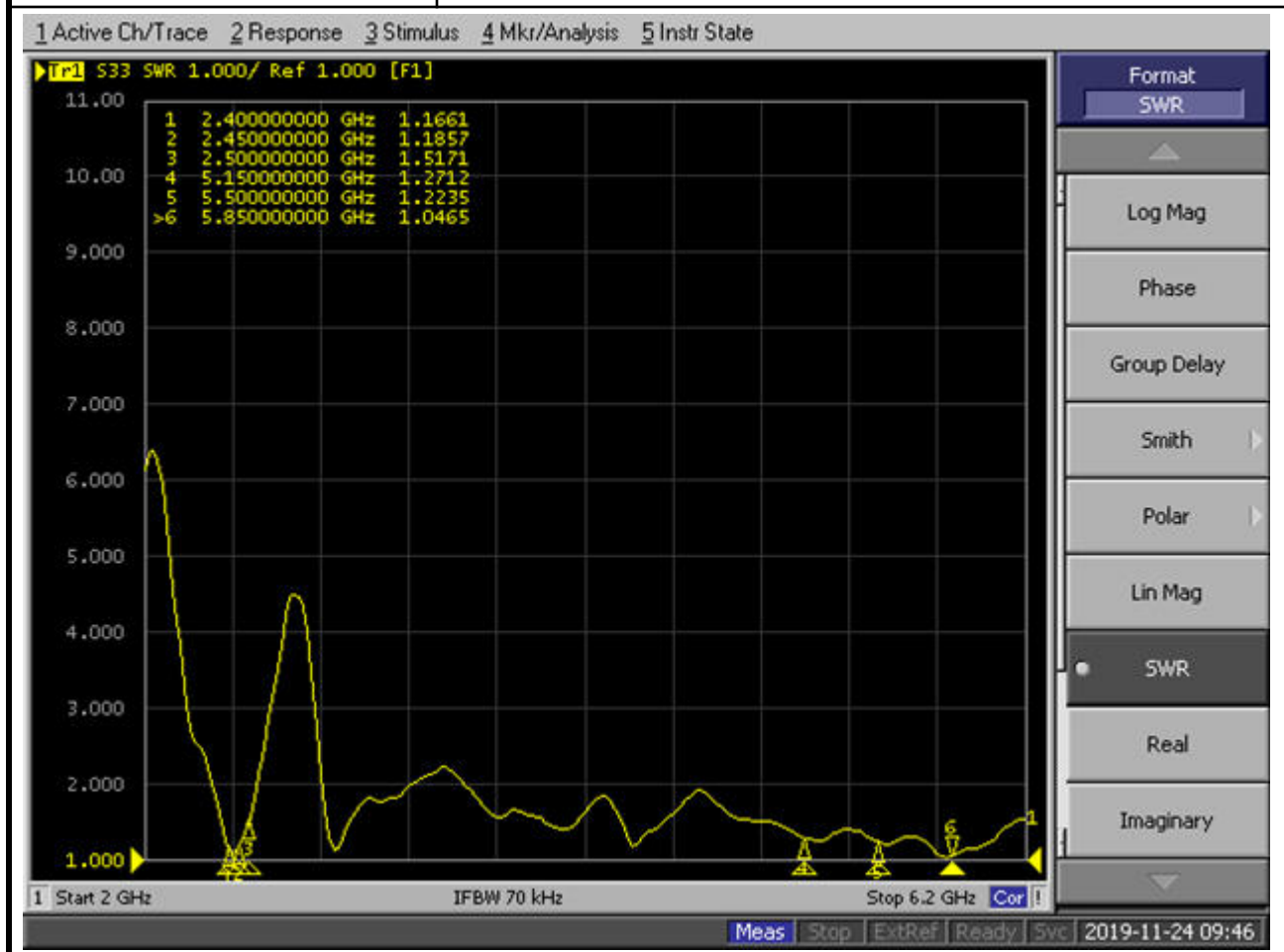
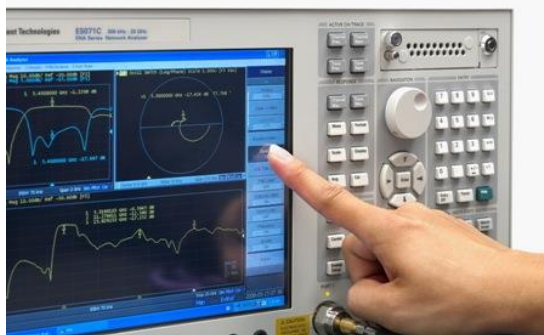
Electrical Properties	
Frequency	2400-2500/5150-5850MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.4GHz: 4.92dBi 5GHz: 5.00dBi
Efficiency	>50%
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	MHF4
Physical Properties	
Antenna Material	FPC硬质板
Cable Type	O.D. 0.81mm // L=220mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray



S 参数测试

S Parameter Test

Agilent E5071C





OTA测试报告

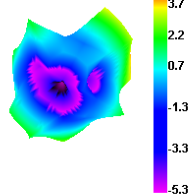
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20	TRP	B	11	1	2412	16.11	AD16
				6	2437	15.6	
				11	2462	16.96	
		G	6	1	2412	14.89	
				6	2437	15.09	
				11	2462	16.16	
		N	MCS7	1	2412	14.14	
				6	2437	14.79	
				11	2462	16.85	
		A	6	36	5180	15.35	
				149	5745	14.42	
				165	5825	15.89	
	TIS	B	11	1	2412	-79.13	
				6	2437	-77.66	
				11	2462	-76.88	
		G	54	1	2412	-63.11	
				6	2437	-62.99	
				11	2462	-61.75	
		N	MCS7	1	2412	-63.15	
				6	2437	-62.35	
				11	2462	-61.89	
		A	54	1	2412	-68.94	
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				11	2462	-70.49	



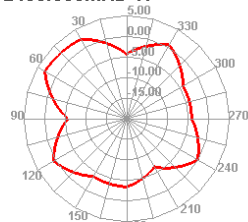
增益效率2.4G

Freq (MHz)	Effi (%)	Gain (dBi)
2400	67.16	2.86
2410	73.51	3.43
2420	72.13	3.66
2430	69.39	3.67
2440	79.87	4.49
2450	81.98	4.74
2460	85.6	4.92
2470	80.91	4.47
2480	81.96	4.23
2490	79.04	3.74
2500	83.88	3.79

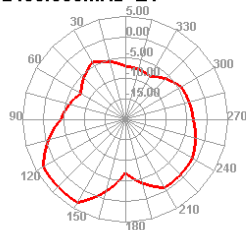
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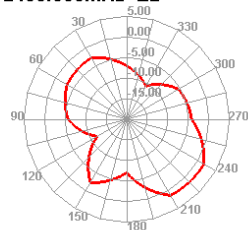
2450.000MHz H



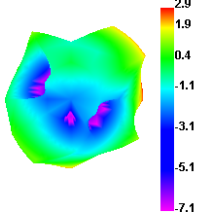
2450.000MHz E1



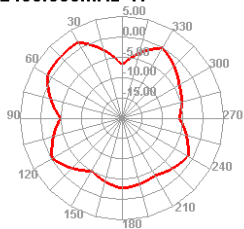
2450.000MHz E2



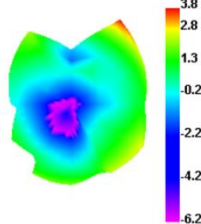
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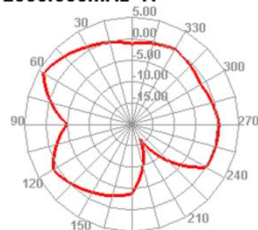
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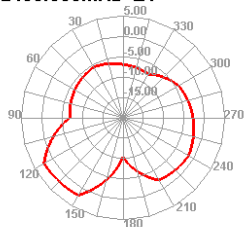
2500.000MHz



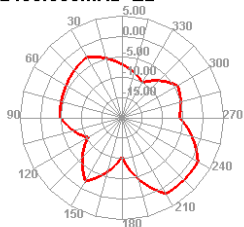
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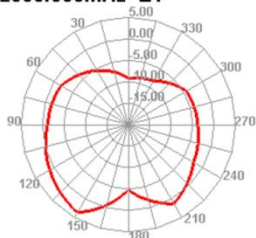
2400.000MHz E1



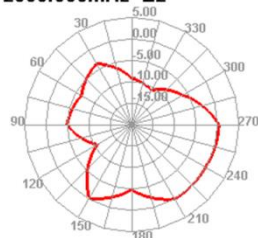
2400.000MHz E2



2500.000MHz E1



2500.000MHz E2

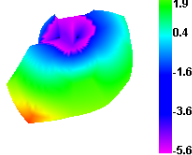




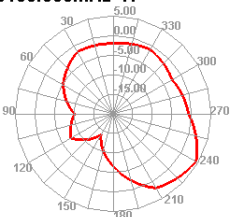
增益测试5.8G

Freq (MHz)	Effi (%)	Gain (dBi)
5150	56.99	4.44
5160	49.84	3.72
5170	45.22	3.19
5180	49.8	3.47
5190	51.76	3.62
5200	50.47	3.5
5210	44.75	3.04
5220	48.11	3.45
5230	53.49	3.92
5240	51.63	3.79
5250	46.08	3.31
5260	50.52	3.77
5270	51.83	3.82
5280	49.54	3.49
5290	49.13	3.39
5300	51.06	3.47
5310	54.7	3.7
5320	53.69	3.65
5330	49.95	3.45
5340	53.19	3.83
5350	53.73	3.84
5360	54.49	3.97
5370	48.89	3.38
5380	54.21	3.79
5390	54.7	3.76
5400	62.9	4.19
5410	57.42	3.87
5420	62.24	4.36
5430	59.83	4.09
5440	59.03	3.85
5450	55.23	3.55
5460	59.54	3.96
5470	62.94	4.19
5480	58.16	3.91
5490	56.19	3.89
5500	55.89	3.89
5510	55.27	3.9
5520	59.31	4.25
5530	57.63	4.03
5540	58.58	4.17
5550	58.5	4.2
5560	58.29	4.19
5570	59.26	4.51
5580	56.73	4.4
5590	55.16	4.09
5600	53.67	4.05
5610	54.98	4.1
5620	55.16	4.18
5630	54.81	4.19
5640	54.83	4.15
5650	56.76	4.31
5660	56.25	4.28
5670	56.07	4.19
5680	54.72	3.94
5690	55.01	4.04
5700	54.78	4.12
5710	53.73	4.14
5720	55.53	4.36
5730	58.5	4.72
5740	57.11	4.99
5750	58.63	5
5760	55.62	4.45
5770	58.53	4.96
5780	58.49	4.93
5790	57.69	4.83
5800	60.57	4.93
5810	62.08	4.98
5820	64.21	4.77
5830	62.05	4.95
5840	63.07	4.95
5850	63.44	4.95

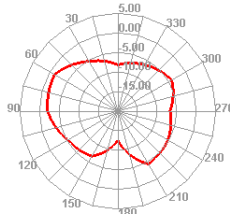
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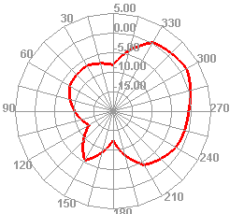
5150.000MHz H



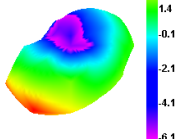
5150.000MHz E1



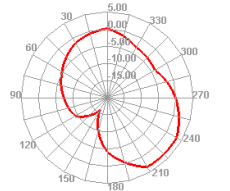
5150.000MHz E2



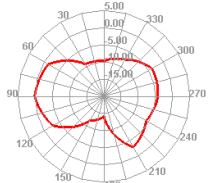
5500.000MHz



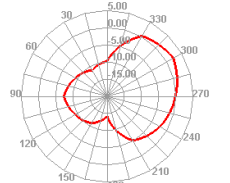
5500.000MHz H



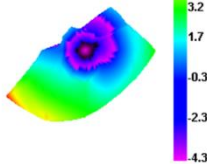
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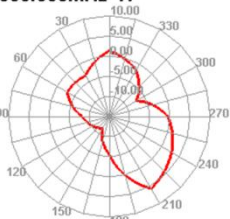
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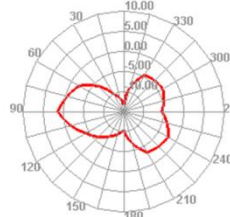
5850.000MHz



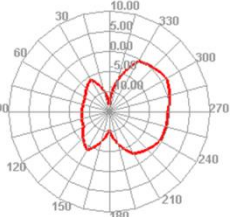
5850.000MHz H



5850.000MHz E1

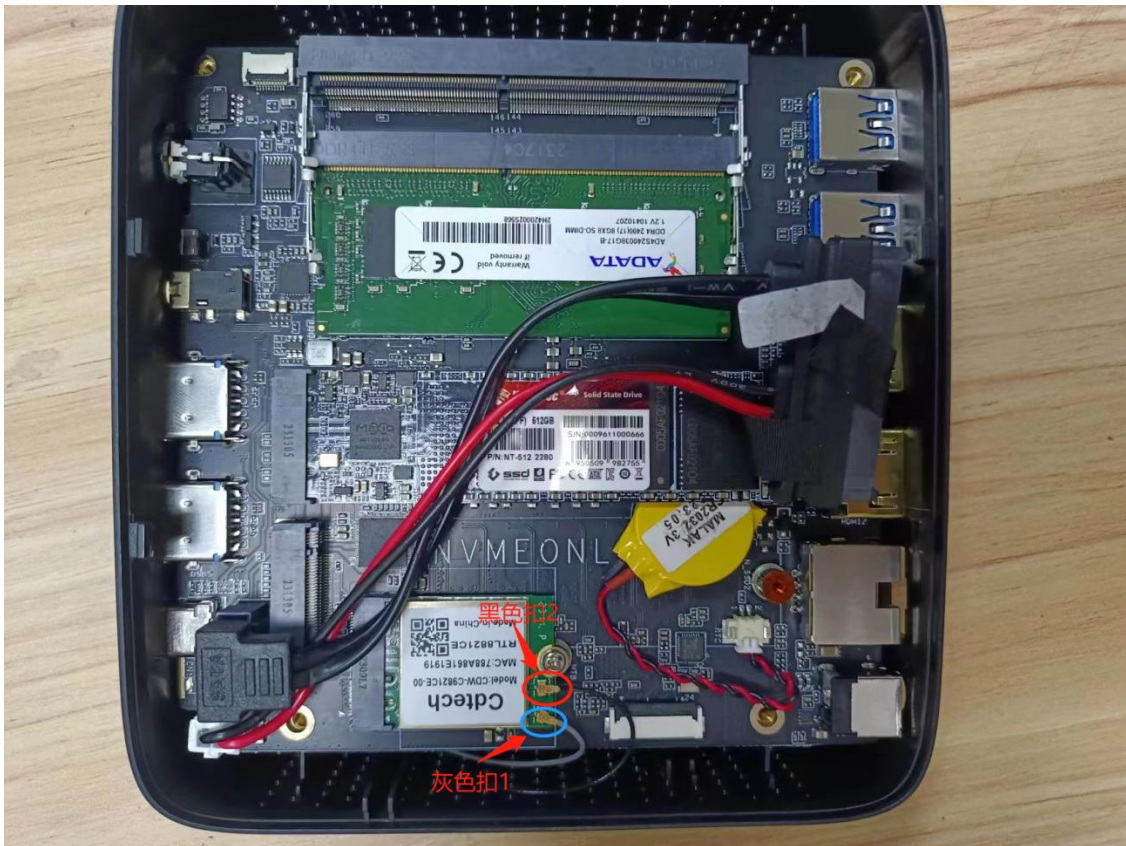
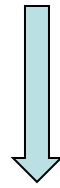
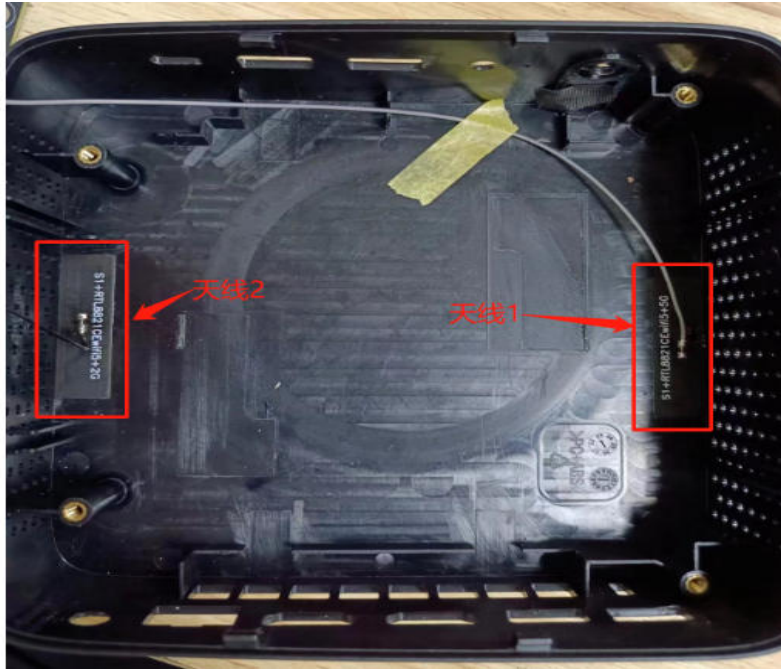


5850.000MHz E2



add: 东莞市大朗镇巷尾村聚祥二路24号电话: 0769-82226176 传真: 0769-82226175

天线组装图





表单编号: CYX-FM-RD004-A

深圳创盈芯实业有限公司

Shenzhen Chuangyingxin technology co., Ltd

材料承认书

Material acceptance

厂 商:

Manufacturer

东莞市松汇实业有限公司

品 名:

Name of a part

AD16 WIF5G-2 Auxiliary Antenna L=110 MM

料 号:

Part Number

物 料 规 格

Material specification

WIFI+BT 天线 硬质 FPC +081 黑色线 L=110 mm 4 代端子

制作 Fabrication	审核 Examine and verify	批准 Ratify

Tel:0755-23596969

Company web site:<http://www.cyxtech.com/>

深圳市龙华新区高峰社区科伦特低碳产业园 C 栋

Add: 5 / F, 1 Building, Xiazao Industrial Zone, Zhaohe Road, Fengfeng Community

Longhua New District, Shenzhen City



规格承认书

SPECIFICATION FOR APPROVAL

编号: 2023072402

File No. _____

版本: 1.0

Revision _____

客 户 创盈芯

CUSTOMER: _____

客 户 料 号

CUSTOMER NO: _____

品 名 WIFI5G-2 Auxiliary Antenna L=110MM

PART NAME: _____

供 方 料 号 SL136P.300045.P01

SUPPLIER NO: _____

送样日期 Date:

送样数量 Q'TY: PCS

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi

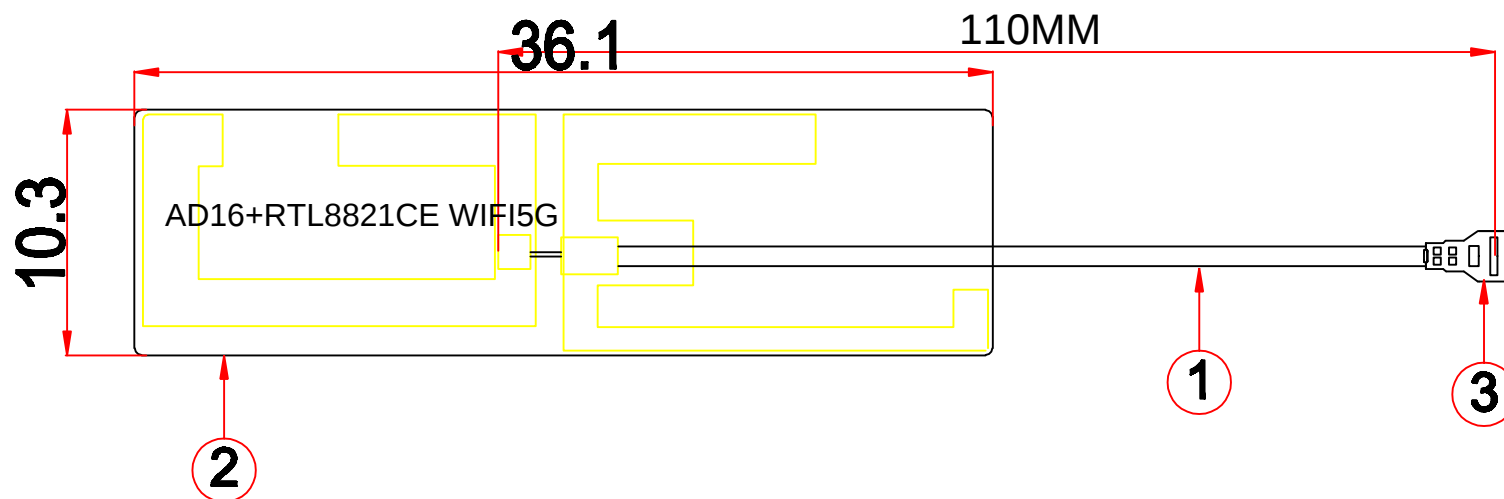
SH-RD-F04-A

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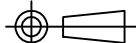


承认书项目表

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7	增益效率	1	7
8	天线组装图	1	8
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-



3	MHF4	O.D.0.81专用	1
2	FPC	L36.1*W10.3mm	1
1	Coaxial Cable	O.D.0.81 Black	1
NO	PART NAME	DESCRIPTION	Q.TY

 东莞市松汇实业有限公司 Dongguan SongHui Co.,Ltd.			CUSTOMER			
			PART NO			
			TITLE		2.4-5.8GHzAntenna L= 110MM	
			S.H P/NO		SL136P.300042.P01	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
UNIT:mm	ANGLES ±0.5°	X. ±2.0	A4	LUOYI	ZOUJIE	
SHEET: 1/1	X.XX ±0.2	XX. ±5.0				
SCALE: 1/1	X.X ±0.5	DATE:2023-07-21				



电 性 测 试 报 告

Test Reports

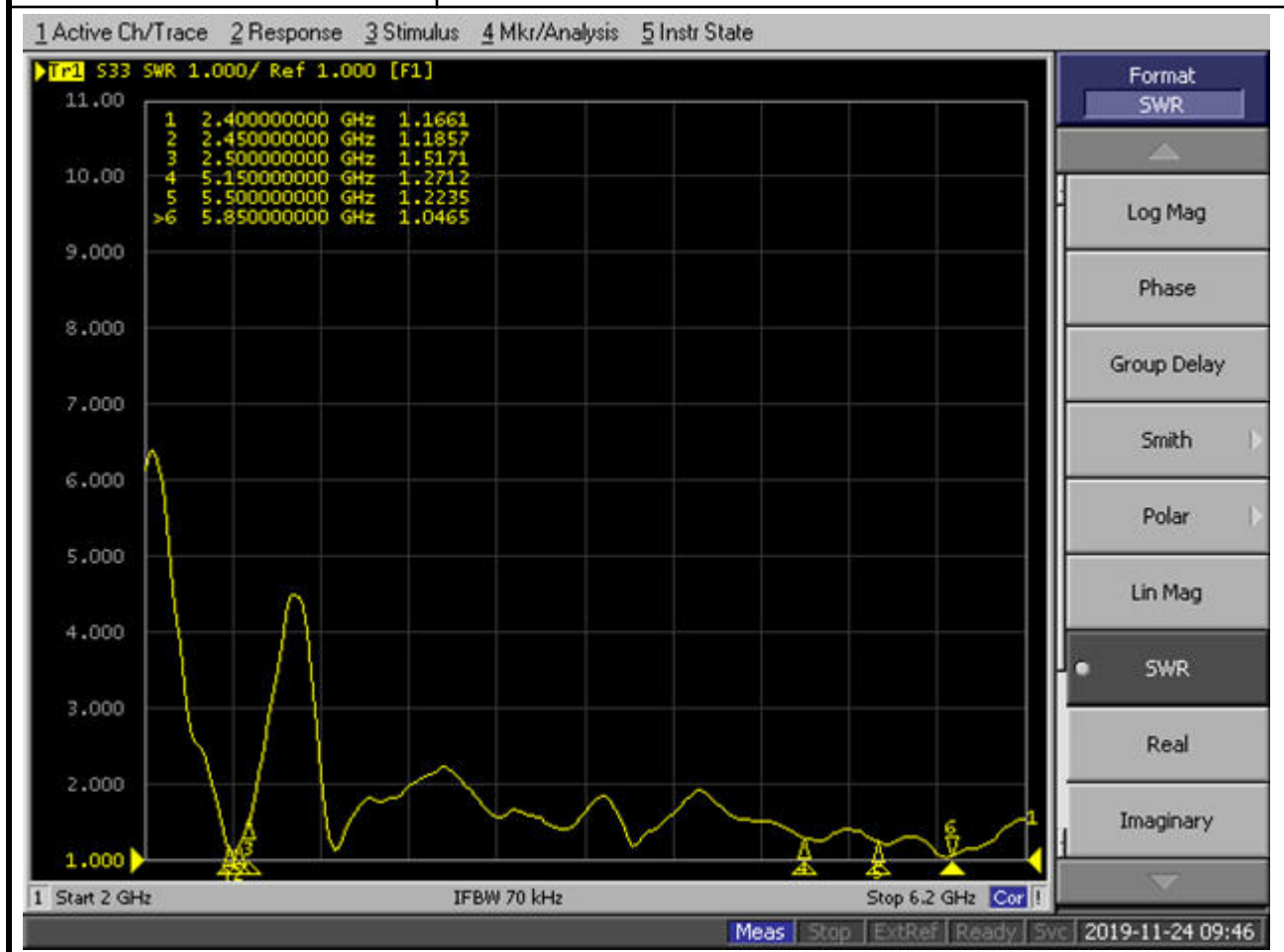
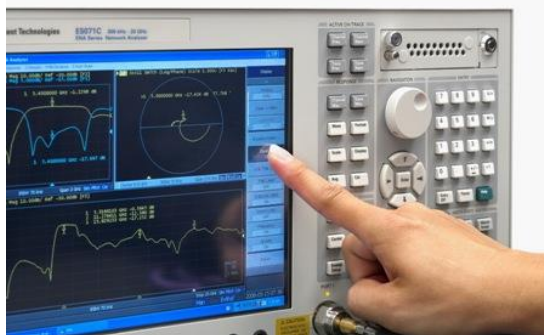
Electrical Properties	
Frequency	2400-2500/5150-5850MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2.4GHz: 4.97dBi 5GHz: 3.64dBi
Efficiency	>50%
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	MHF4
Physical Properties	
Antenna Material	FPC硬质板
Cable Type	O.D. 0.81mm // L=110mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Black



S 参数测试

S Parameter Test

Agilent E5071C





OTA测试报告

带宽 (MHz)	测试项	模式	速率(Mbps)	信道	频率(MHz)	测试值 (dbm)	测试项目
20	TRP	B	11	1	2412	16.11	AD16
				6	2437	15.6	
				11	2462	16.96	
		G	6	1	2412	14.89	
				6	2437	15.09	
				11	2462	16.16	
		N	MCS7	1	2412	14.14	
				6	2437	14.79	
				11	2462	16.85	
		A	6	36	5180	15.35	
				149	5745	14.42	
				165	5825	15.89	
	TIS	B	11	1	2412	-79.13	
				6	2437	-77.66	
				11	2462	-76.88	
		G	54	1	2412	-63.11	
				6	2437	-62.99	
				11	2462	-61.75	
		N	MCS7	1	2412	-63.15	
				6	2437	-62.35	
				11	2462	-61.89	
		A	54	1	2412	-68.94	
				6	2437	-63.94	
				11	2462	-70.49	

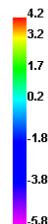
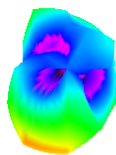


增益效率2.4G

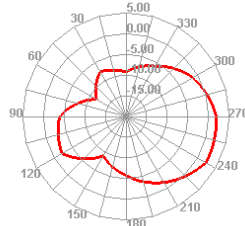
Freq (MHz)	Effi (%)	Gain (dBi)
2400	68.28	4.22
2410	76.28	4.9
2420	74.8	4.78
2430	73.03	4.51
2440	78.92	4.79
2450	80.8	4.82
2460	83.26	4.92
2470	78.17	4.9
2480	76.24	4.82
2490	72.66	4.65
2500	78.74	4.98

2400.00MHz - 2500.00MHz

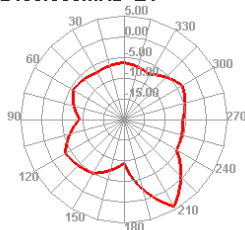
2400.000MHz



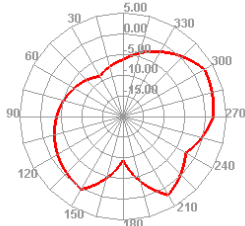
2400.000MHz H



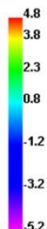
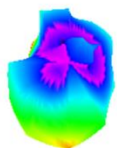
2400.000MHz E1



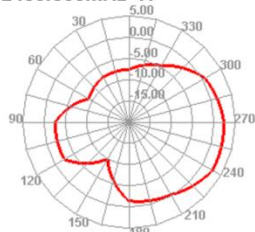
2400.000MHz E2



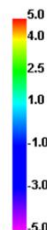
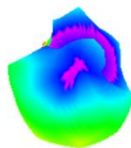
2450.000MHz



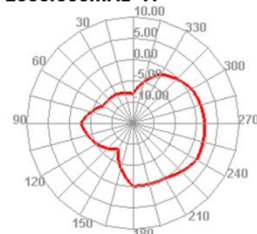
2450.000MHz H



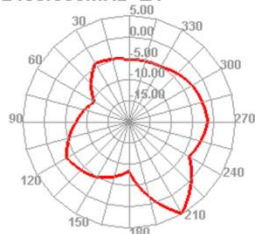
2500.000MHz



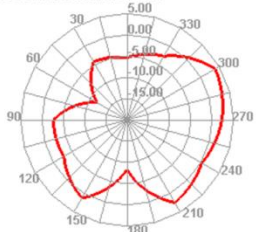
2500.000MHz H



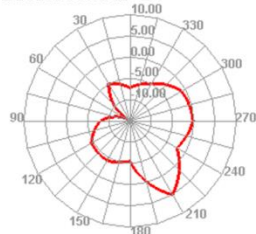
2450.000MHz E1



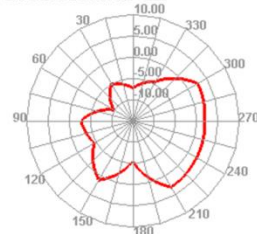
2450.000MHz E2



2500.000MHz E1



2500.000MHz E2

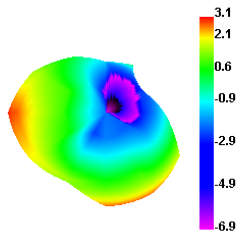




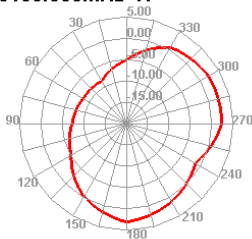
增益测试5.8G

Freq (MHz)	Effi (%)	Gain (dBi)
5150	57.31	3.07
5160	51.32	2.46
5170	50.79	1.92
5180	51.49	2.27
5190	54.1	2.53
5200	53.17	2.53
5210	51.74	2.13
5220	51.46	2.46
5230	57.37	2.87
5240	55.14	2.76
5250	53.58	2.28
5260	54.34	2.62
5270	56.02	2.71
5280	54.03	2.64
5290	53.66	2.68
5300	55.52	2.73
5310	58.82	2.81
5320	57.64	2.7
5330	53.76	2.26
5340	57.02	2.34
5350	57.12	2.46
5360	58.12	2.41
5370	52.57	2
5380	57.69	2.38
5390	57.05	2.28
5400	65.56	2.99
5410	60.69	2.65
5420	65.23	3
5430	62.59	2.84
5440	61.74	2.96
5450	57.64	2.53
5460	61.28	2.99
5470	64.28	3.35
5480	60.12	2.89
5490	58.13	2.61
5500	58.3	2.7
5510	58.1	2.58
5520	61.49	3.04
5530	60.3	2.83
5540	60.53	2.69
5550	60.37	2.65
5560	61.24	2.74
5570	63.03	2.84
5580	60.31	2.53
5590	59.16	2.44
5600	57.07	2.38
5610	58.77	2.56
5620	57.76	2.51
5630	58.15	2.63
5640	57.92	2.6
5650	60.69	2.84
5660	59.42	2.71
5670	58.21	2.42
5680	56.77	2.51
5690	56.8	2.51
5700	57.03	2.68
5710	55.15	2.52
5720	56.96	2.73
5730	60.52	3.06
5740	58.77	3.13
5750	59.27	3.12
5760	56.39	2.8
5770	60.74	3.2
5780	58.73	3.29
5790	56.67	2.98
5800	62.6	3.23
5810	64.65	3.41
5820	64.03	3.45
5830	59.56	3.27
5840	63.46	3.64
5850	64.65	3.53

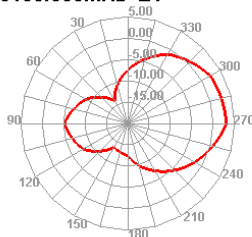
5150.000MHz



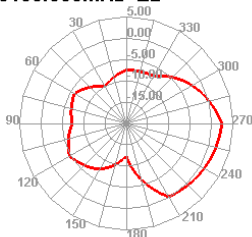
5150.000MHz H



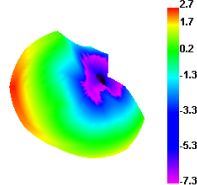
5150.000MHz E1



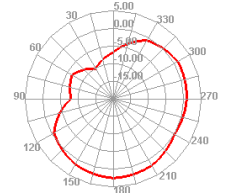
5150.000MHz E2



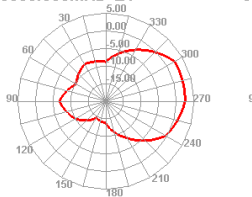
5500.000MHz



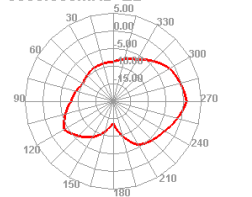
5500.000MHz H



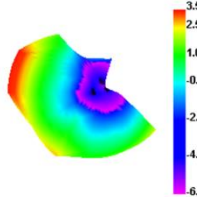
5500.000MHz E1



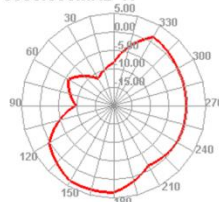
5500.000MHz E2



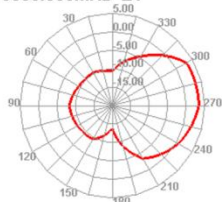
5850.000MHz



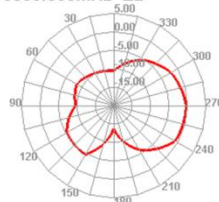
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



add: 东莞市大朗镇巷尾村聚祥二路24号电话: 0769-82226176 传真: 0769-82226175

天线组装图

