



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	思宇星	日期 Data	2023/12/05
产品名称 Product	WiFi副天线	客户机型 Models	JN10-140-CS
料号 P/N	F347A-14MG-345	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81四代端子灰色同轴线; L=345mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

文件修订履历表

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639

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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	56%@2.4G; 51%@5G
Peak Gain	4.3dBi@2.4G; 6.1dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH

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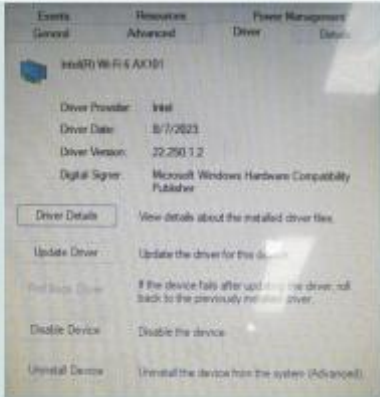
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WiFi Ant Test Information

Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

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Antenna Placement



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Test Data

S11 Parameter-VSWR



Frequency(MHZ)	2400	2500	5150	5850
VSWR	1.59	1.64	1.47	1.36
Return Loss(DB)	-12.8	-12.29	-14.32	-16.19

WiFi Active Test Data

802.11b	Frequency	TRP		TIS(LCD ON)	
	2412	CH1 11Mbps	11.26	CH1 11Mbps	-80.32
	2437	CH6 11Mbps	11.36	CH6 11Mbps	-80.24
	2467	CH11 11Mbps	11.27	CH11 11Mbps	-80.16
802.11a		TRP		TIS(LCD ON)	
	5180	CH36 6Mbps	10.58	CH36 54Mbps	-65.22
	5300	CH60 6Mbps	10.46	CH60 54Mbps	-66.63
	5700	CH140 6Mbps	10.23	CH140 54Mbps	-68.44

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Efficiency Table

Passive Test For 2.4G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	56.73	-2.46	4.39	2.24	30.638	26.095	4.39	-14.37
2410	50.84	-2.94	4.02	1.87	27.474	23.366	4.02	-16.24
2420	53.82	-2.69	4.27	2.12	29.035	24.789	4.27	-17.66
2430	53.74	-2.7	4.26	2.11	28.942	24.796	4.26	-17.22
2440	54.3	-2.65	4.15	2	29.205	25.09	4.15	-15.62
2450	54.35	-2.65	4.07	1.92	29.272	25.082	4.07	-17.37
2460	51.47	-2.88	3.66	1.51	27.676	23.789	3.66	-21.29
2470	49.71	-3.04	3.46	1.31	26.692	23.02	3.46	-20.46
2480	51.42	-2.89	3.43	1.28	27.518	23.906	3.43	-17.08
2490	54.04	-2.67	3.47	1.32	28.83	25.211	3.47	-15.06
2500	54.79	-2.61	3.36	1.21	29.056	25.736	3.36	-14.85
Passive Test For 5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	45.39	-3.43	4.39	2.24	32.52	12.868	4.39	-22.96
5170	38.95	-4.09	3.45	1.3	27.928	11.021	3.45	-24.11
5190	34.23	-4.66	2.75	0.6	24.511	9.717	2.75	-21.59
5210	38.25	-4.17	3.68	1.53	27.323	10.929	3.68	-19.56
5230	36.03	-4.43	3.63	1.48	25.354	10.677	3.63	-17.92
5250	35.98	-4.44	3.78	1.63	25.087	10.888	3.78	-20.63
5270	34.52	-4.62	3.86	1.71	23.874	10.645	3.86	-22.29
5290	38.64	-4.13	4.6	2.45	26.192	12.443	4.6	-20.96
5310	34.54	-4.62	4.11	1.96	22.96	11.579	4.11	-21.37
5330	34.68	-4.6	4.34	2.19	22.789	11.887	4.34	-20.77
5350	37.65	-4.24	4.58	2.43	24.403	13.242	4.58	-23.75
5370	39.99	-3.98	5.09	2.94	25.65	14.342	5.09	-20.28
5390	35.51	-4.5	4.47	2.32	22.444	13.063	4.47	-19.45
5410	42.71	-3.69	5.2	3.05	26.754	15.959	5.2	-18.2
5430	39.84	-4	4.62	2.47	24.589	15.256	4.62	-20.93
5450	38.08	-4.19	4.28	2.13	23.53	14.55	4.28	-19.42
5470	37.61	-4.25	4.45	2.3	23.52	14.094	4.45	-22.69
5490	34.91	-4.57	4.22	2.07	22.087	12.827	4.22	-21.84
5510	36.24	-4.41	4.67	2.52	23.248	12.997	4.67	-23.57
5530	38.07	-4.19	5.11	2.96	24.393	13.676	5.11	-29.38
5550	40.4	-3.94	5.5	3.35	25.724	14.673	5.5	-28.21
5570	40.66	-3.91	5.4	3.25	25.751	14.912	5.4	-23.01
5590	40.99	-3.87	5.64	3.49	25.904	15.086	5.64	-20.66
5610	43.49	-3.62	5.66	3.51	27.408	16.082	5.66	-23.61
5630	47.96	-3.19	6.18	4.03	30.685	17.274	6.18	-25.83
5650	49.06	-3.09	6.1	3.95	31.493	17.562	6.1	-22.5
5670	46.57	-3.32	5.83	3.68	30.329	16.244	5.83	-18.58
5690	48.95	-3.1	5.79	3.64	31.906	17.041	5.79	-19.73
5710	48.11	-3.18	5.73	3.58	32.088	16.023	5.73	-19.97
5730	51.71	-2.86	5.61	3.46	34.203	17.51	5.61	-23.39
5750	47.22	-3.26	5.44	3.29	31.496	15.719	5.44	-22.81
5770	47.83	-3.2	5.1	2.95	31.6	16.231	5.1	-19.16
5790	46.92	-3.29	5.26	3.11	31.065	15.853	5.26	-18.35
5810	49.97	-3.01	5.4	3.25	32.775	17.194	5.4	-20.08
5830	50.84	-2.94	5.46	3.31	33.377	17.466	5.46	-22.55
5850	51.08	-2.92	5.44	3.29	33.448	17.631	5.44	-24.39

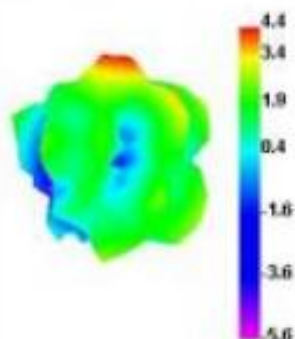
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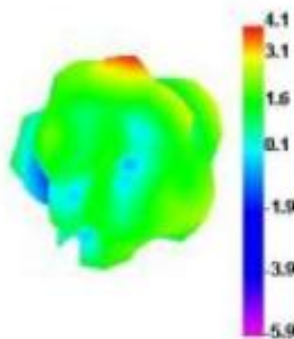
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Radiation Pattern(2.4G)

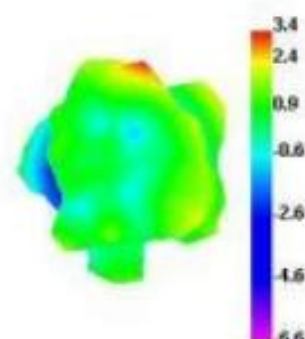
2400.000MHz



2450.000MHz

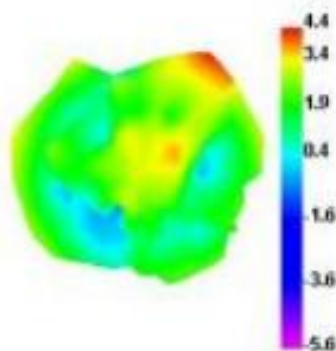


2500.000MHz

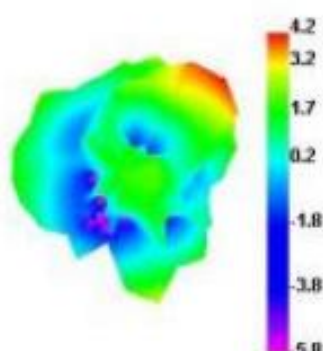


Radiation Pattern(5G)

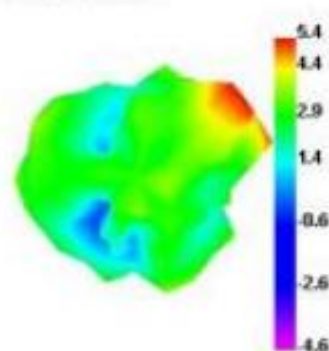
5150.000MHz



5490.000MHz



5850.000MHz



BT Test

测试环境：走廊通道测试工具：蓝牙音箱测试距离：15M（播放音乐流畅无卡顿）



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Throughput Test(2.4G)

上行		下行	
上行		下行	

Throughput Test(5G)

上行		下行	
上行		下行	

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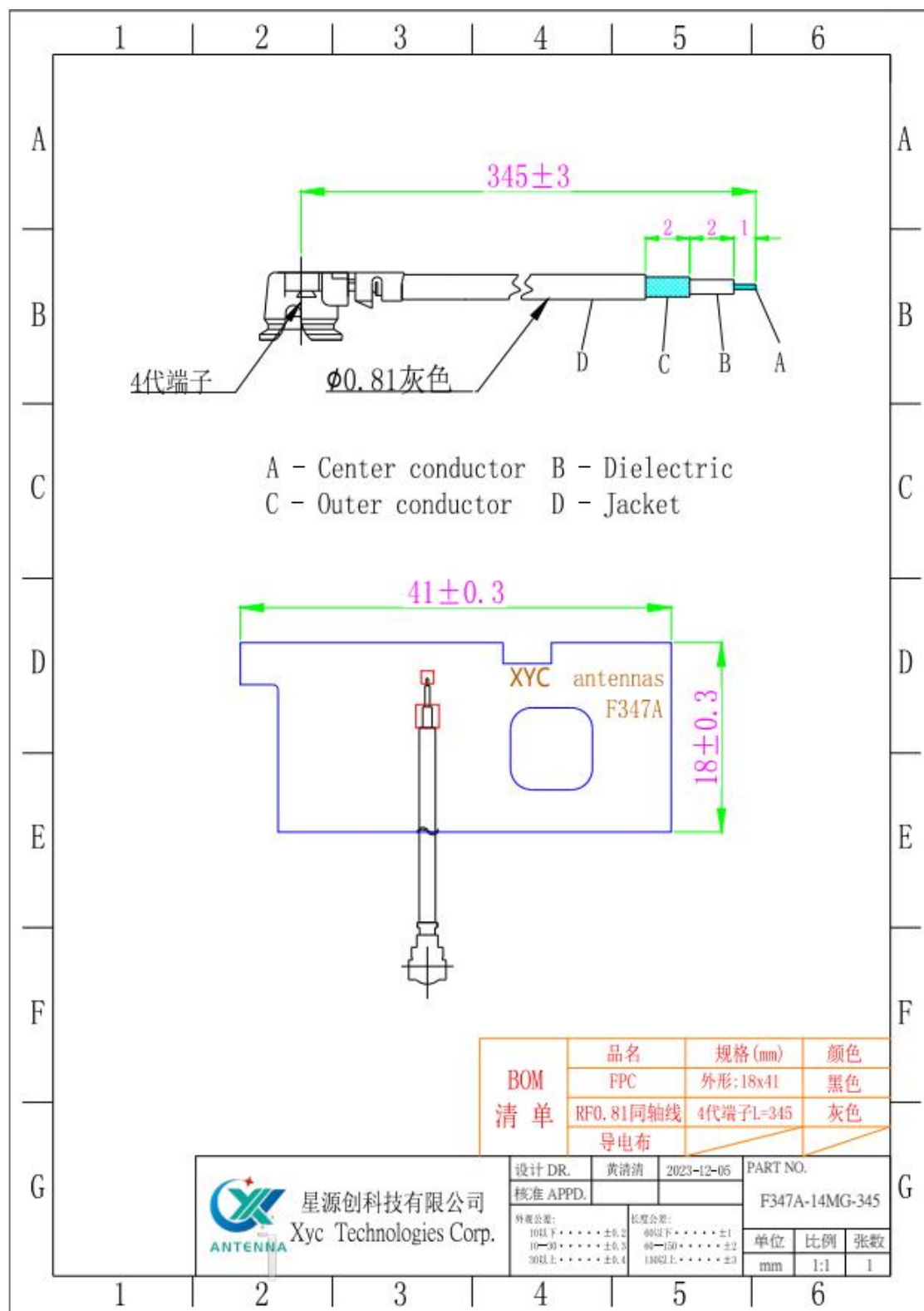
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Antenna Assembly



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