



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主天线	客户机型 Models	JN10-140-CS
料号 P/N	F230G-14LB-105	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81四代端子黑色同轴线; L=105mm		

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

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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	51%@2.4G; 58%@5G
Peak Gain	3.0dBi@2.4G; 4.3dBi@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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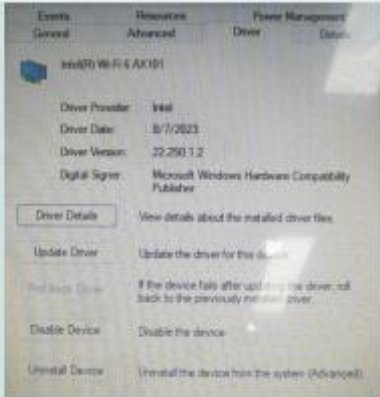
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WiFi Ant Test Information

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	1.46	1.62	1.72	1.46
Return Loss (DB)	-14.5	-12.51	-11.47	-14.43

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	41.65	-3.8	1.65	-0.5	17.502	24.152	1.65	-15.82
2410	40.92	-3.88	1.84	-0.31	17.039	23.876	1.84	-17.12
2420	44.36	-3.53	2.39	0.24	18.454	25.91	2.39	-17.89
2430	45.23	-3.45	2.46	0.31	18.759	26.475	2.46	-19.7
2440	44.43	-3.52	2.29	0.14	18.281	26.144	2.29	-19.65
2450	45.62	-3.41	2.19	0.04	18.319	27.297	2.19	-16.82
2460	44.99	-3.47	2.03	-0.12	17.54	27.453	2.03	-14.7
2470	46.23	-3.35	2.37	0.22	17.431	28.801	2.37	-14.87
2480	49.4	-3.06	2.65	0.5	18.481	30.921	2.65	-14.51
2490	51.77	-2.86	2.9	0.75	19.395	32.373	2.9	-16.2
2500	51.51	-2.88	3.09	0.94	19.619	31.894	3.09	-20.47
Passive Test For 5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	48.84	-3.11	3.26	1.11	31.972	16.865	3.26	-17.13
5170	45.19	-3.45	2.73	0.58	29.363	15.831	2.73	-18.83
5190	40.67	-3.91	2.45	0.3	26.413	14.257	2.45	-17.17
5210	49.85	-3.02	3.64	1.49	32.154	17.699	3.64	-16.77
5230	48.5	-3.14	3.54	1.39	31.037	17.467	3.54	-16.67
5250	48.56	-3.14	3.61	1.46	31.074	17.484	3.61	-15.39
5270	47.37	-3.25	3.4	1.25	30.371	16.995	3.4	-15.38
5290	51.15	-2.91	3.89	1.74	32.758	18.393	3.89	-15.92
5310	44.99	-3.47	3.25	1.1	28.79	16.198	3.25	-16.56
5330	44.87	-3.48	3.3	1.15	28.655	16.215	3.3	-17.99
5350	47.91	-3.2	3.4	1.25	30.433	17.479	3.4	-18.61
5370	52.52	-2.8	3.54	1.39	33.052	19.463	3.54	-17.33
5390	47.55	-3.23	3.24	1.09	29.93	17.62	3.24	-17.94
5410	58.37	-2.34	4.3	2.15	36.896	21.469	4.3	-16.98
5430	57.16	-2.43	4.15	2	35.943	21.216	4.15	-17.78
5450	54.57	-2.63	4.03	1.88	34.238	20.335	4.03	-19.88
5470	53.14	-2.75	3.99	1.84	33.867	19.277	3.99	-21.98
5490	49.2	-3.08	3.44	1.29	31.528	17.673	3.44	-20.95
5510	48.44	-3.15	2.93	0.78	31.177	17.264	2.93	-19.39
5530	51.01	-2.92	2.94	0.79	33.238	17.777	2.94	-17.69
5550	54.27	-2.65	3.14	0.99	35.648	18.619	3.14	-17.64
5570	53.54	-2.71	3.23	1.08	35.293	18.243	3.23	-20.29
5590	52.68	-2.78	3.02	0.87	34.931	17.748	3.02	-22.74
5610	53.36	-2.73	2.74	0.59	35.663	17.695	2.74	-22.38
5630	58.51	-2.33	2.89	0.74	39.204	19.305	2.89	-21.78
5650	58.82	-2.31	2.91	0.76	39.783	19.033	2.91	-22.51
5670	54.82	-2.61	2.59	0.44	37.135	17.681	2.59	-19.33
5690	58.23	-2.35	3.01	0.86	39.361	18.869	3.01	-19.96
5710	54.15	-2.66	2.69	0.54	36.78	17.373	2.69	-20.78
5730	57.98	-2.37	3.21	1.06	39.153	18.828	3.21	-19.71
5750	50.91	-2.93	2.41	0.26	34.188	16.726	2.41	-22.42
5770	49.92	-3.02	2.45	0.3	33.316	16.607	2.45	-19.95
5790	47.89	-3.2	2.32	0.17	31.619	16.269	2.32	-18.99
5810	50.18	-2.99	2.91	0.76	33.262	16.922	2.91	-23.94
5830	50.18	-2.99	3.02	0.87	32.973	17.204	3.02	-19.73
5850	51.46	-2.89	3.41	1.26	33.786	17.677	3.41	-22.37

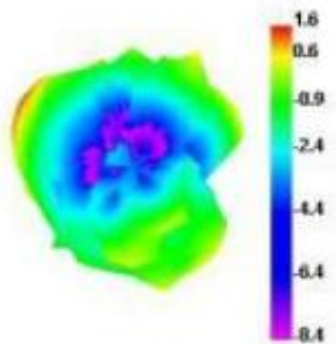
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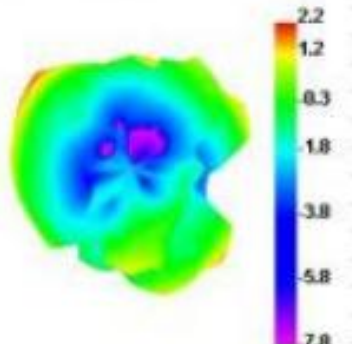
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Radiation Pattern(2.4G)

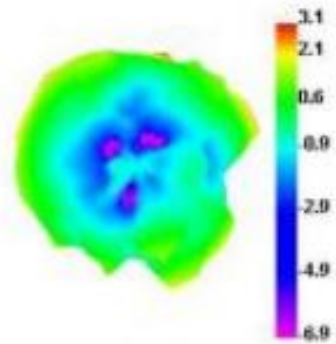
2400.000MHz



2450.000MHz

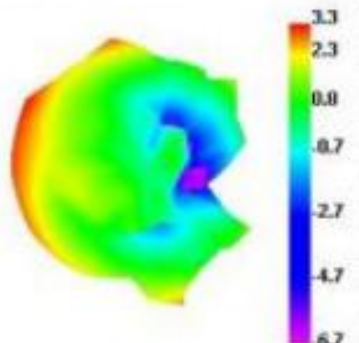


2500.000MHz

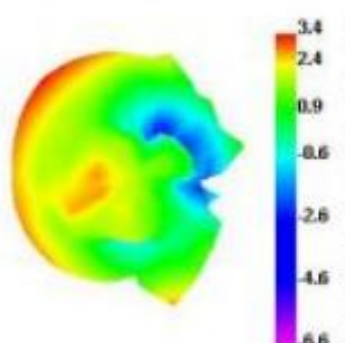


Radiation Pattern(5G)

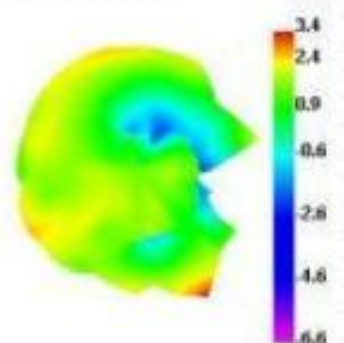
5150.000MHz



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	
图片		图片	

Throughput Test(5G)

上行		下行	
图片		图片	

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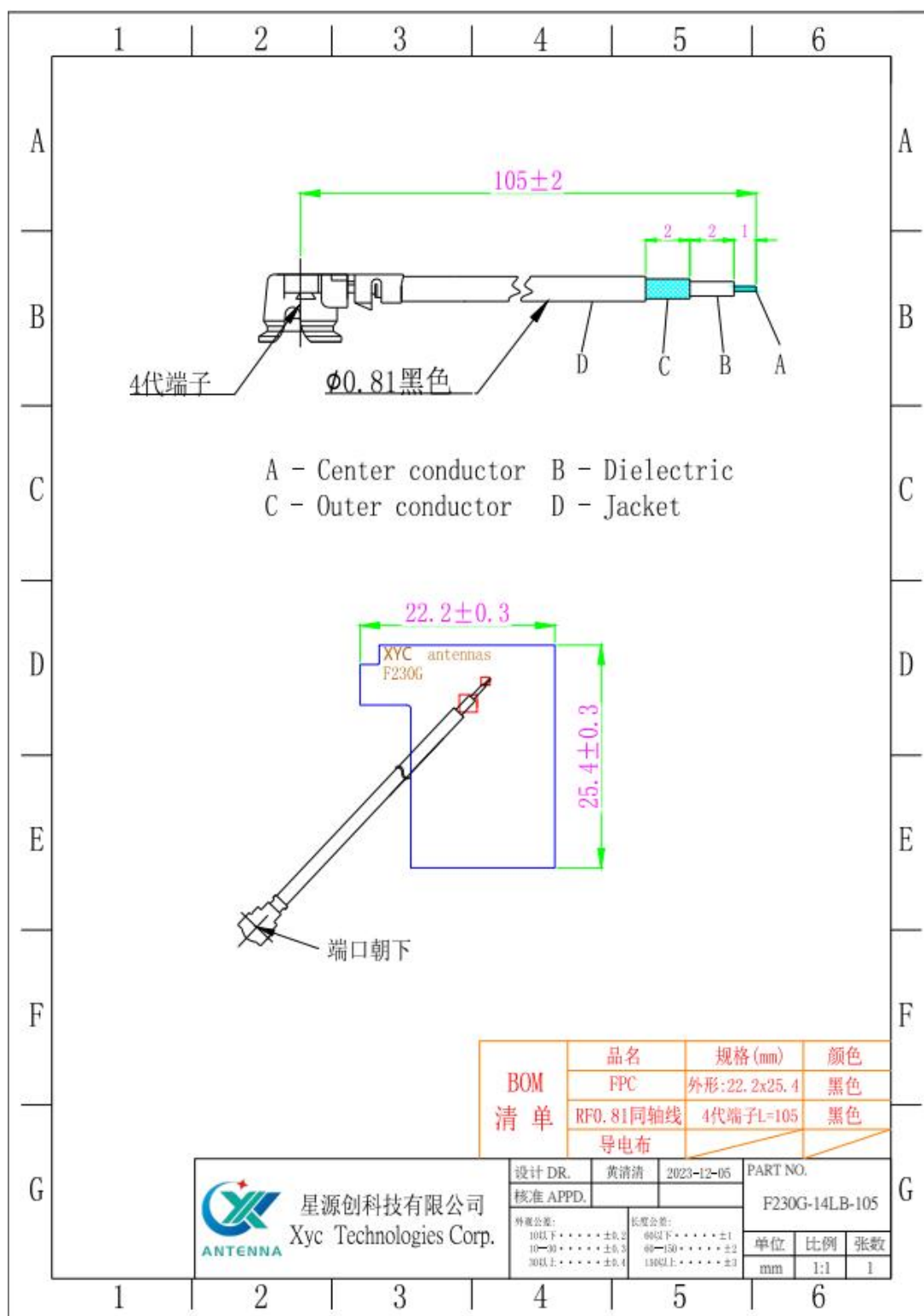
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Antenna Assembly



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