



深圳市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	亿莱顿	日期 Data	2025/11/17
产品名称 Product	WIFI/BT天线	客户机型 Models	WA1099
料号 P/N	F1550-21MB-170	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; WIFI天线: MI-113一代端子黑色同轴线,长度L=170mm		

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: 深圳市宝安区沙井街道马安山社区马安山锦胜财富广场C栋610-614

Address: Room 610-614, Building C, Ma'an Shan Jinsheng Fortune Plaza, Ma'an Shan Community, Shajing Sub-district, Bao'an District, Shenzhen City Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G WiFi/BT; 5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	50%@2.4G; 53%@5G
Peak Gain	1.48dBi@2.4G; 2.98dBi@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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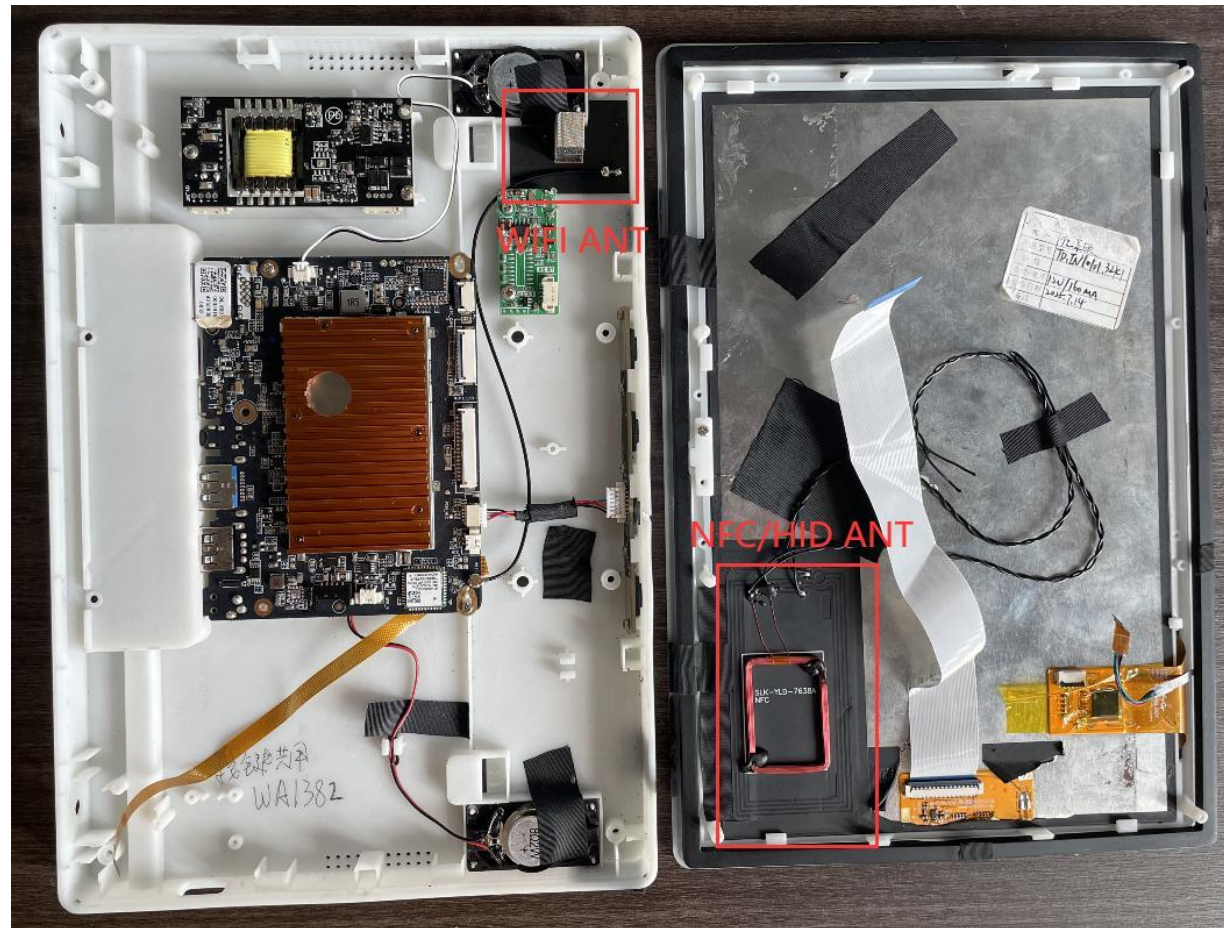
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Antenna Placement



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Test Data

WiFi Active test data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	13.34	CH1 11Mbps	-80.42
	2437	CH6 11Mbps	13.63	CH6 11Mbps	-80.21
	2467	CH11 11Mbps	13.56	CH11 11Mbps	-80.55
802.11g	TRP		TIS		
	2412	CH1 54Mbps	13.57	CH36 54Mbps	-68.52
	2437	CH6 54Mbps	12.57	CH60 54Mbps	-68.78
	2467	CH11 54Mbps	13.57	CH161 54Mbps	-67.34
802.11n	TRP		TIS		
	2412	CH1 MCS7	13.49	CH1 MCS7	-64.59
	2437	CH6 MCS7	13.50	CH6 MCS7	-65.74
	2467	CH11 MCS7	13.42	CH11 MCS7	-64.35
802.11a	TRP		TIS		
	5180	CH36 54Mbps	12.26	CH36 54Mbps	-70.48
	5300	CH60 54Mbps	12.10	CH60 54Mbps	-70.62
	5805	CH161 54Mbps	12.09	CH161 54Mbps	-68.84

S11-VSWR&Return Loss



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.54	1.63	1.19	1.78
Return Loss (DB)	-13.35	-12.37	-20.91	-11.01

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Efficiency Table

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	45.36	-3.43	-0.01	-2.16	24.063	21.3	-0.01	-11.12
2410	44.75	-3.49	0.02	-2.13	23.928	20.825	0.02	-11.35
2420	46.1	-3.36	0.12	-2.03	24.667	21.434	0.12	-11.12
2430	46.21	-3.35	0.05	-2.1	24.74	21.466	0.05	-11.29
2440	46.84	-3.29	0.02	-2.13	25.227	21.61	0.02	-10.63
2450	47.26	-3.25	0.34	-1.81	25.607	21.654	0.34	-10.57
2460	48.41	-3.15	0.69	-1.46	26.219	22.188	0.69	-10.82
2470	49.12	-3.09	0.92	-1.23	26.571	22.544	0.92	-11.35
2480	50.11	-3	1.09	-1.06	27.066	23.043	1.09	-11.76
2490	50.1	-3	1.48	-0.67	27.102	23.002	1.48	-11.85
2500	48.41	-3.15	1.31	-0.84	26.25	22.164	1.31	-12.34

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	40.44	-3.93	1.36	-0.79	25.435	15.003	1.36	-17.75
5170	41.24	-3.85	1.71	-0.44	25.613	15.627	1.71	-18.23
5190	43.13	-3.65	2.15	0	25.989	17.141	2.15	-17.02
5210	45.77	-3.39	2.67	0.52	26.622	19.145	2.67	-15.27
5230	45.09	-3.46	2.66	0.51	25.793	19.297	2.66	-16.38
5250	47.94	-3.19	2.94	0.79	27.201	20.735	2.94	-18.93
5270	49.59	-3.05	2.98	0.83	27.455	22.139	2.98	-18.92
5290	49.14	-3.09	2.56	0.41	26.467	22.669	2.56	-17.29
5310	47.64	-3.22	2.05	-0.1	25.303	22.333	2.05	-17.21
5330	48.65	-3.13	2.08	-0.07	25.711	22.938	2.08	-20.06
5350	52.17	-2.83	2.45	0.3	27.169	24.997	2.45	-22.49
5370	49.91	-3.02	2.36	0.21	25.166	24.746	2.36	-20.59
5390	45.91	-3.38	1.94	-0.21	22.749	23.162	1.94	-19.21
5410	53.25	-2.74	2.44	0.29	26.193	27.058	2.44	-18.92
5430	47.07	-3.27	1.87	-0.28	22.714	24.352	1.87	-19.1
5450	49.16	-3.08	2.15	0	22.78	26.376	2.15	-16.68
5470	45.54	-3.42	1.82	-0.33	20.385	25.152	1.82	-14.85
5490	45.28	-3.44	1.83	-0.32	19.98	25.304	1.83	-16.63
5510	44.74	-3.49	1.98	-0.17	19.554	25.189	1.98	-18.46
5530	45.51	-3.42	1.9	-0.25	19.432	26.074	1.9	-16.42
5550	47.83	-3.2	1.97	-0.18	20.011	27.82	1.97	-15.93
5570	45.56	-3.41	1.62	-0.53	19.178	26.38	1.62	-16.45
5590	46.45	-3.33	1.55	-0.6	19.73	26.721	1.55	-16.05
5610	42.4	-3.73	1.19	-0.96	18.078	24.325	1.19	-17.14
5630	45.35	-3.43	1.36	-0.79	19.28	26.068	1.36	-20.72
5650	39.66	-4.02	0.54	-1.61	16.95	22.705	0.54	-27.86
5670	43.18	-3.65	1.01	-1.14	18.666	24.518	1.01	-26.08
5690	36.41	-4.39	0.45	-1.7	15.832	20.577	0.45	-25.18
5710	38.88	-4.1	0.77	-1.38	17.158	21.723	0.77	-28.11
5730	40.33	-3.94	0.77	-1.38	18.181	22.152	0.77	-28.48
5750	37.67	-4.24	0.57	-1.58	17.401	20.273	0.57	-28.34
5770	40.84	-3.89	1.02	-1.13	19.155	21.683	1.02	-26.46
5790	39.31	-4.05	1.1	-1.05	18.585	20.725	1.1	-25.14
5810	42.94	-3.67	1.38	-0.77	20.486	22.457	1.38	-23.48
5830	44.29	-3.54	1.77	-0.38	21.384	22.905	1.77	-20.93
5850	46.45	-3.33	2.25	0.1	22.436	24.016	2.25	-18.25

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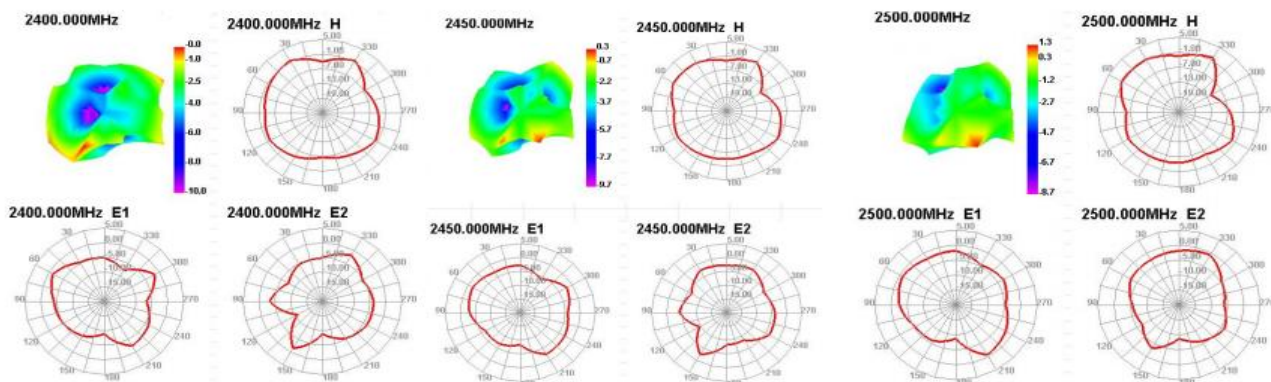
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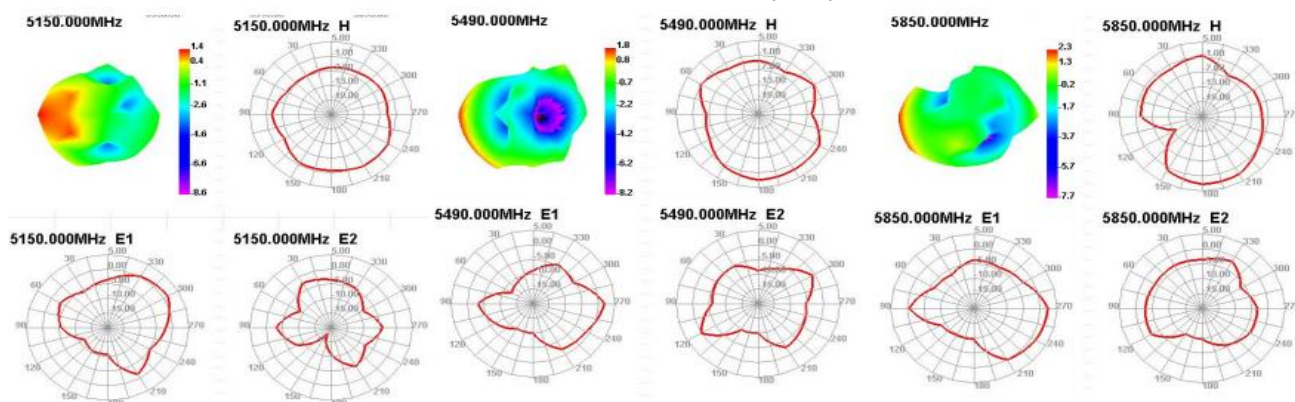
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Radiation Pattern(2.4G)



Radiation Pattern(5G)



WiFi/BT Measured

	DEVICE	RSSI	FREQUENCY	CHANNE
< Hidden SSID >	72:85:c4:53:7d:ad	-43	2437	6
XYC2023	70:85:c4:73:7d:ad	-43	2437	6
XYC2025	c6:b2:5b:88:ee:de	-46	2412	1
	c4:b2:5b:28:ee:de	-49	5785	157
	c4:b2:5b:29:29:ef	-52	5745	149
	c6:b2:5b:89:29:ef	-54	2462	11
< Hidden SSID >	72:85:c4:d3:7d:ad	-48	5300	60
XYC2023_5G	72:85:c4:93:7d:ad	-48	5300	60
< Hidden SSID >	c6:b2:5b:58:ee:de	-48	5785	157
< Hidden SSID >	c6:b2:5b:59:29:ef	-51	5745	149
@PHICOMM_60	Phicomm	-54	2427	4
< Hidden SSID >	c6:b2:5b:d9:29:ef	-54	2462	11
ChinaNet-2jvE	TIANYI COMHEART	-56	2417	2
NETGEAR95-5G	6c:cd:d6:07:22:e7	-58	5220	44
XYC2025-1	TD-LINK			

WIFI

测试环境: 开放空间

测试工具: Wifi Analytical Assistant

测试距离: 10m

信号强度: 2.4G :-43dBm 5G:-48dBm

BT

测试环境: 开放空间(通道)

测试工具: 蓝牙音响

测试距离: 10/m

结果: 播放音乐流畅, 无杂音。

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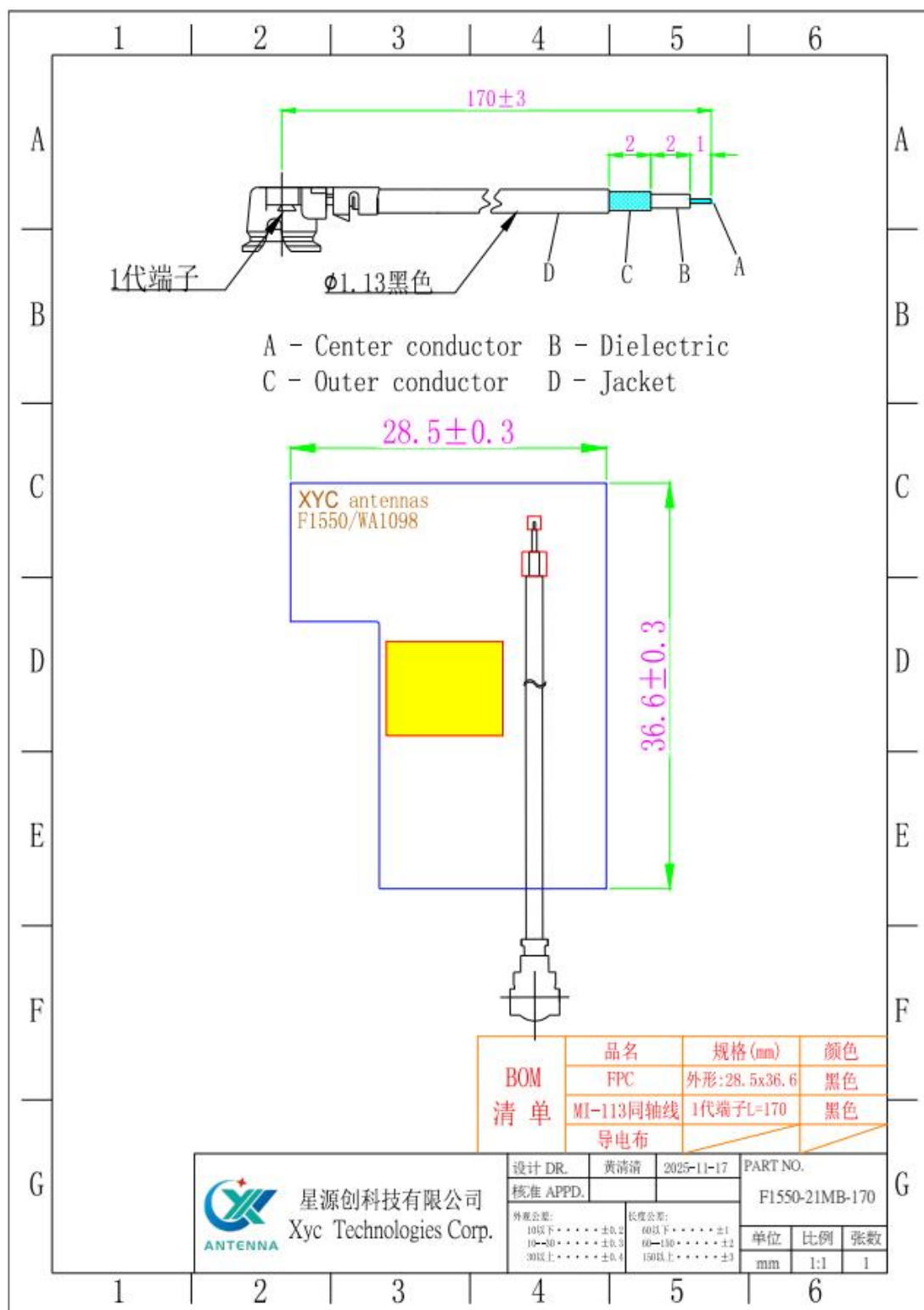
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