



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	美迪飞	日期 Data	2025/07/15
产品名称 Product	WIFI/BT天线	客户机型 Models	W10
料号 P/N	F1218A-13RB-125	客户料号 Customer P/N	
规格描述 Specifications	黑色PCB，厚度0.2mm；RF0.81三代端子黑色同轴线，L=125mm		

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	47%@2.4G; 50%@5G
Peak Gain	1.87 dBi@2.4G; 4.26 dBi@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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Antenna Placement



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Test Data

WiFi Active test data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	16.57	CH1 11Mbps	-81.76
	2437	CH6 11Mbps	16.10	CH6 11Mbps	-81.78
	2467	CH11 11Mbps	15.70	CH11 11Mbps	-80.54
802.11a		TRP		TIS	
	5180	CH36 6Mbps	13.32	CH36 54Mbps	-70.91
	5300	CH60 6Mbps	14.0	CH60 54Mbps	-72.18
	5805	CH161 6Mbps	13.39	CH161 54Mbps	-71.83

WIFI/BT Measured

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 :-38dBm 5G: -53dBm

测试结果如右图

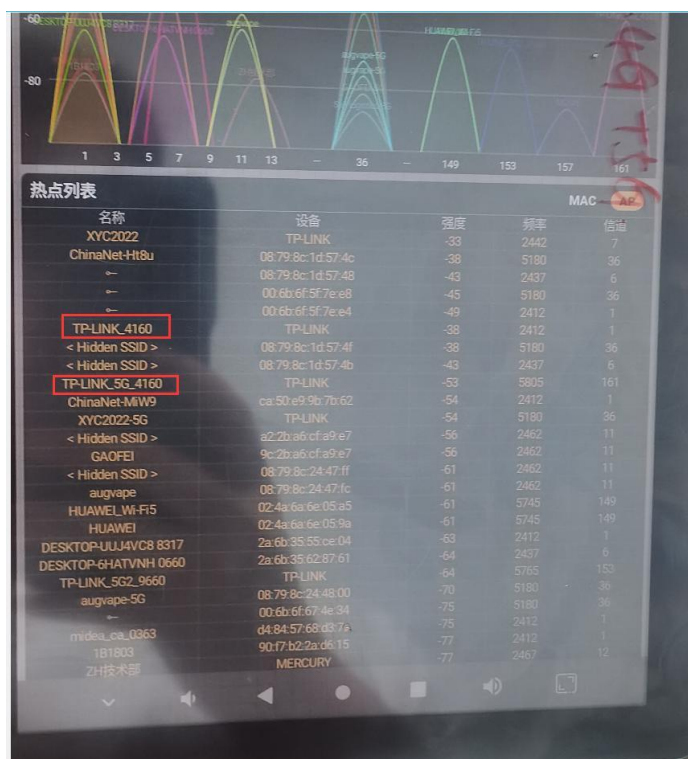
BT

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10m

结果：播放音乐流畅，无杂音。



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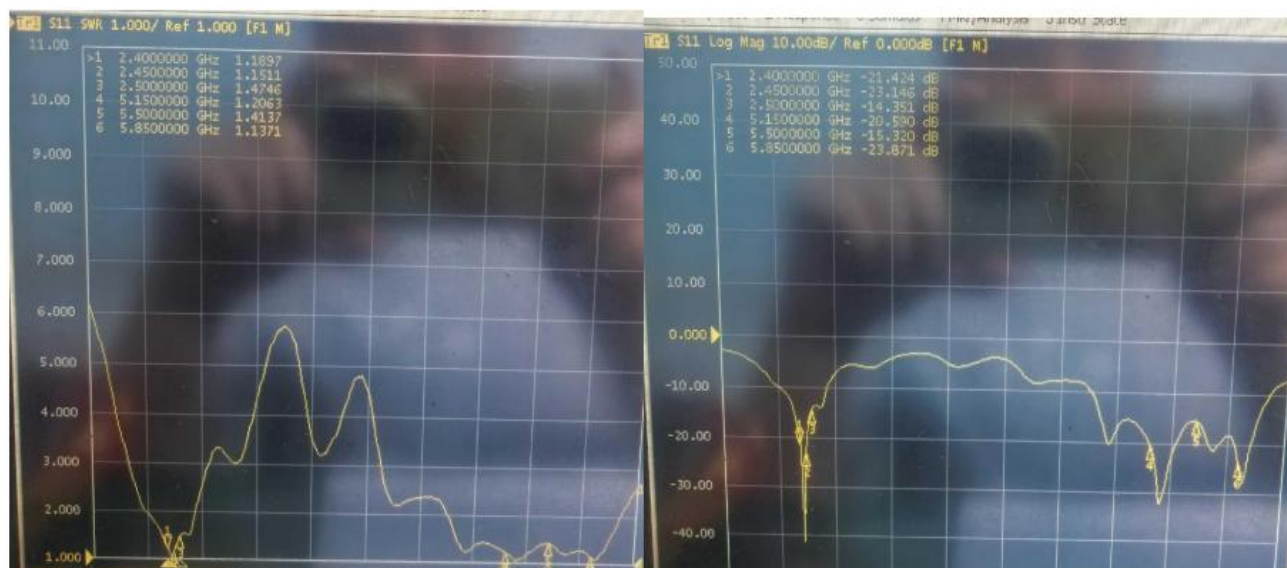
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S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2483	5150	5500	5850
VSWR	1.18	1.15	1.47	1.20	1.41	1.13
Return Loss (DB)	-21.42	-23.14	-1.35	-20.59	-15.32	-23.87

Efficiency Table (2.4G)

测试频段	测试频率	Efficiency-DB	Efficiency-%	Gain(dBi)
PASSIVE	2400	-3.26	47.23	1.87
PASSIVE	2410	-3.27	47.14	1.75
PASSIVE	2420	-3.28	46.98	1.58
PASSIVE	2430	-3.31	46.64	1.4
PASSIVE	2440	-3.3	46.73	1.3
PASSIVE	2450	-3.33	46.43	1.24
PASSIVE	2460	-3.38	45.95	1.2
PASSIVE	2470	-3.41	45.64	1.18
PASSIVE	2480	-3.43	45.35	1.16
PASSIVE	2490	-3.46	45.07	1.06
PASSIVE	2500	-3.48	44.84	0.9

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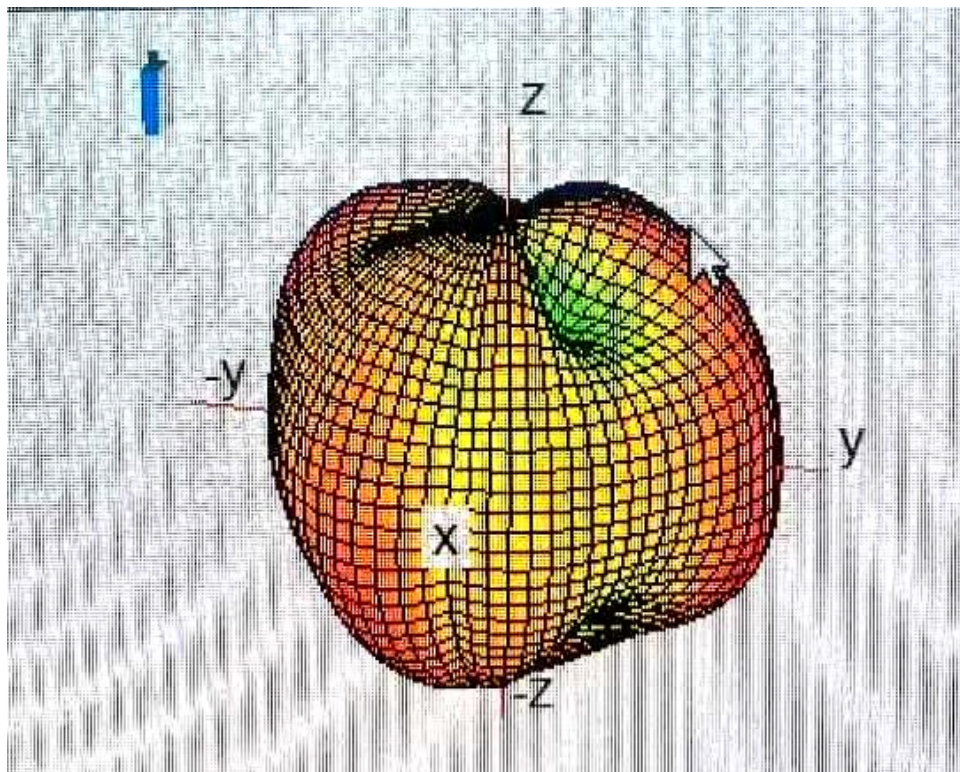
Efficiency Table (5G)

测试频段	测试频率	Efficiency-DB	Efficiency-%	Gain(dBi)	F
PASSIVE	5150	-3.62	43.4	3.44	
PASSIVE	5170	-3.44	45.25	3.77	
PASSIVE	5190	-3.28	46.94	3.9	
PASSIVE	5210	-3.11	48.85	4.11	
PASSIVE	5230	-3.03	49.78	4.26	
PASSIVE	5250	-3	50.17	4.26	
PASSIVE	5270	-3.01	49.97	4.16	
PASSIVE	5290	-3.09	49.05	3.97	
PASSIVE	5310	-3.1	49.03	3.96	
PASSIVE	5330	-3.11	48.83	4.02	
PASSIVE	5350	-3.14	48.58	4.03	
PASSIVE	5370	-3.17	48.22	3.96	
PASSIVE	5390	-3.31	46.62	3.66	
PASSIVE	5410	-3.42	45.5	3.51	
PASSIVE	5430	-3.51	44.56	3.51	
PASSIVE	5450	-3.55	44.18	3.58	
PASSIVE	5470	-3.56	44.05	3.62	
PASSIVE	5490	-3.67	42.99	3.35	
PASSIVE	5510	-3.76	42.1	3.04	PASSIVE
PASSIVE	5530	-3.81	41.59	2.96	
PASSIVE	5550	-3.79	41.75	3.07	
PASSIVE	5570	-3.75	42.19	3.36	
PASSIVE	5590	-3.7	42.66	3.58	
PASSIVE	5610	-3.8	41.71	3.57	
PASSIVE	5630	-3.96	40.19	3.4	
PASSIVE	5650	-4.02	39.62	3.36	
PASSIVE	5670	-4.1	38.92	3.45	
PASSIVE	5690	-4.11	38.81	3.56	
PASSIVE	5710	-4.18	38.2	3.58	
PASSIVE	5730	-4.3	37.11	3.52	
PASSIVE	5750	-4.41	36.2	3.57	
PASSIVE	5770	-4.53	35.2	3.52	
PASSIVE	5790	-4.64	34.37	3.57	
PASSIVE	5810	-4.66	34.18	3.5	
PASSIVE	5830	-4.77	33.37	3.28	
PASSIVE	5850	-4.9	32.35	2.87	
51					

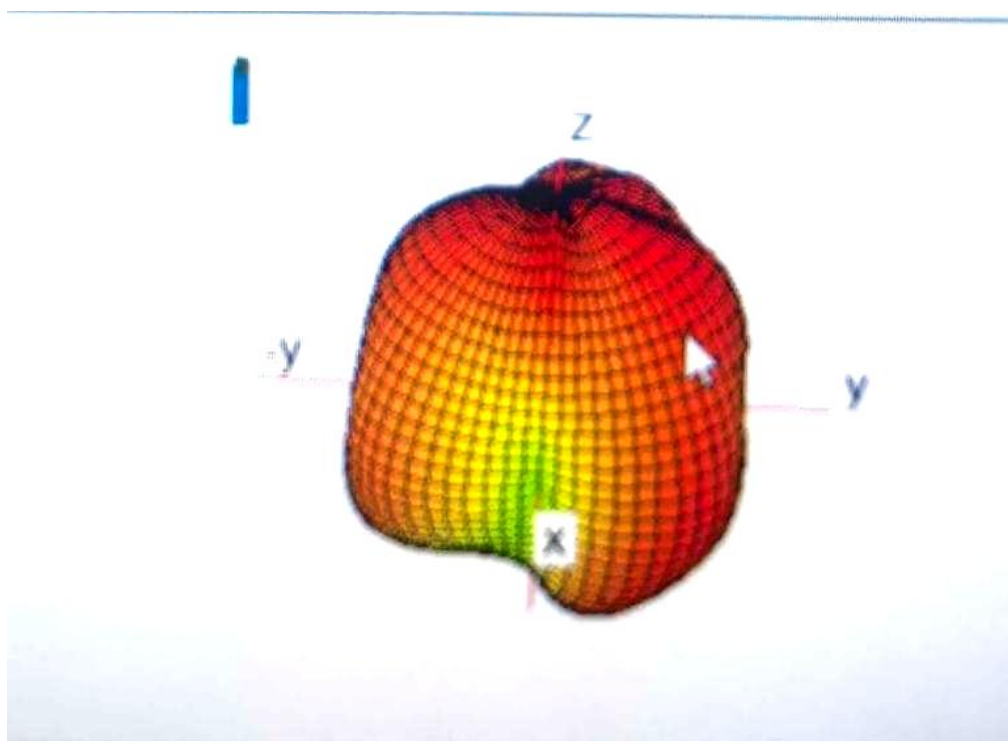
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Radiation Pattern(2.4G)

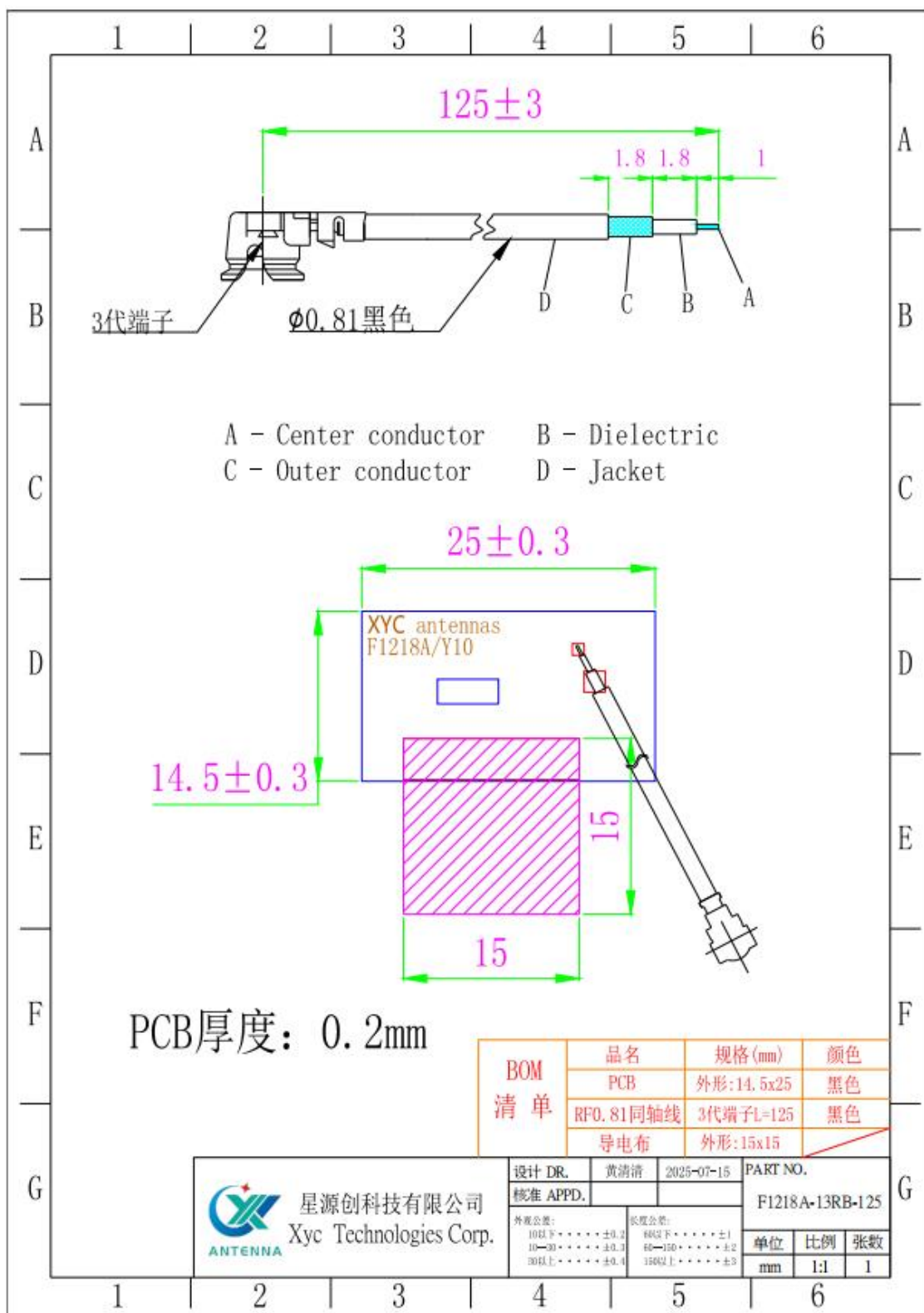


Radiation Pattern(5G)





Antenna Assembly





Notes



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