



Approval Sheet

Customer	Dao Hui	Data	2025/06/12
Product	WIFI/BT Antenna	Models	Z3 WIFI
P/N	T826-14RB-120	Customer P/N	
Specifications	Black FPC; RF0.81 fourth generation terminal black coaxial line, Length: L=120mm		

Vender Approved By	Customer Approved By
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

Document revision Resume

Version	Revise The Content	Revused	Approval	Date	Note



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Specification

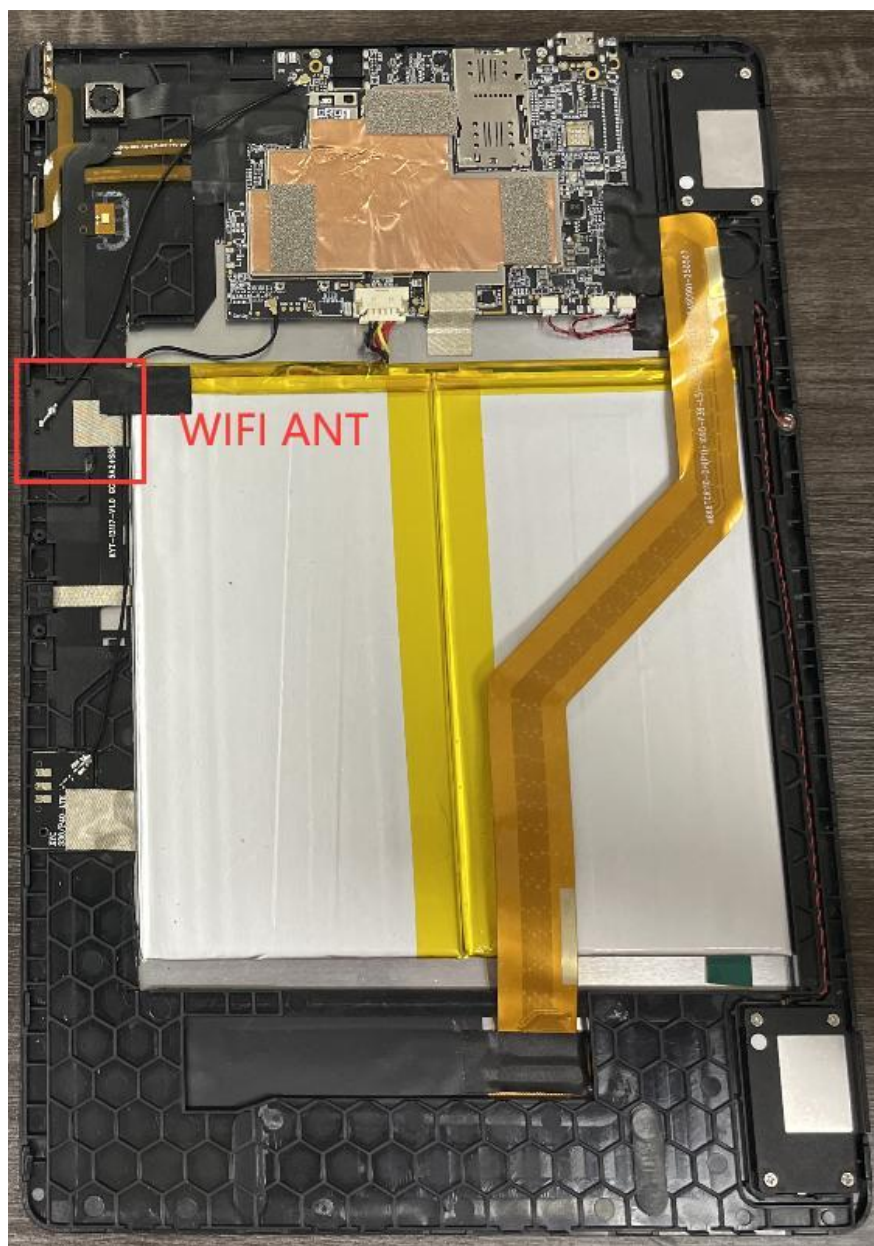
1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G WiFi; 5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	38%@2.4G; 52%@5G
Peak Gain	0.6dBi@2.4G; 2.0dBi@5G

1.2 Physical Properties

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

Antenna Placement



Test Data

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	11.41	CH1 11Mbps	-80.32
	2437	CH6 11Mbps	11.34	CH6 11Mbps	-80.58
	2467	CH11 11Mbps	11.17	CH11 11Mbps	-80.57
802.11a		TRP		TIS	
	5180	CH36 54Mbps	9.26	CH36 54Mbps	-71.79
	5300	CH60 54Mbps	8.84	CH60 54Mbps	-71.81
	5805	CH161 54Mbps	9.37	CH161 54Mbps	-71.26

WIFI/BT Measured

WIFI Test

Test environment: Open space

Test tool: Wifi Analytical Assistant

Test distance: 10m

Signal strength: 2.4G :-42dBm 5G:-50dBm

The test results are shown on the right

BT Test

Test environment: Open space (channel)

Test tool: Bluetooth speaker

Test distance: 10/m

Results: The music was played smoothly and without noise

名称	设备	强度	频率	MAC	AP
XVC2023	7085c4737dad	-35	2422	信道	
<Hidden SSID>	7285c4537dad	-36	2422	3	
XVC2022	TP-LINK	-42	2442	7	
NETGEAR95	6c0dd60722e8	-42	2447	8	
XVC2023_5G	7285c4d37dad	-43	5300	60	
<Hidden SSID>	7285c4d37dad	-45	5300	60	
ChinaNet-Ht8u	08798c1d5748	-50	2437	6	
005b5f5f7eae8		-50	5180	36	
08798c1d574c		-54	5180	36	
005b5f5f7eae4		-45	2412	1	
XVC2022-5G	TP-LINK	-50	5200	40	
TP-LINK_5G2_9660	TP-LINK	-55	5785	157	
NETGEAR95-5G	6c0dd60722e7	-59	5220	44	
HUAWEI-1F33TW_5G	02a3263052c6	-59	5300	60	
GAOFEI	544d440c3e51	-64	2462	11	
GAOFEI888	681befe2da7c	-66	2412	1	
13A08	58b38f5b9413	-69	2437	6	
FAS23-8EC7	c48372538ecd	-70	2437	6	
<Hidden SSID>	6a1befe2da87	-73	5180	36	
XAD_GUEST	863a20c7568d	-74	2412	1	
GAOFEI888-5G	681befe2da80	-74	5180	36	
CMCC-F9AM	80ae540a07c6	-75	2462	11	
<Hidden SSID>	82ae540a07c6	-75	2462	11	
HUAWEI-J1FR1F	8222974ed4ca	-77	2412	1	
HKUX-5G	80ae5412af20	-77	5220	44	
1503	6877da4c1183	-77	5240	48	
<Hidden SSID>	7677da4c1183	-78	5240	48	
augvape1501-5G	08798c244800	-79	5180	36	
005b5f5f74e34		-83	5180	36	
<Hidden SSID>	08798c244803	-80	5180	36	
CMCC-F9AM-5G	80ae540a07c7	-85	5200	40	
<Hidden SSID>	82ae540a07c7	-86	5200	40	
HUAWEI-R1CGD1502	22e604468aa2	-88	2437	6	

S11-VSWR&Return Loss



Frequency (MHZ)	2400	2483	5150	5850
VSWR	1.64	1.72	1.58	1.25
Return Loss (DB)	-12.26	-11.46	-12.86	-18.88

Efficiency Table (2.4G)

Passive Test For WIFI2.4

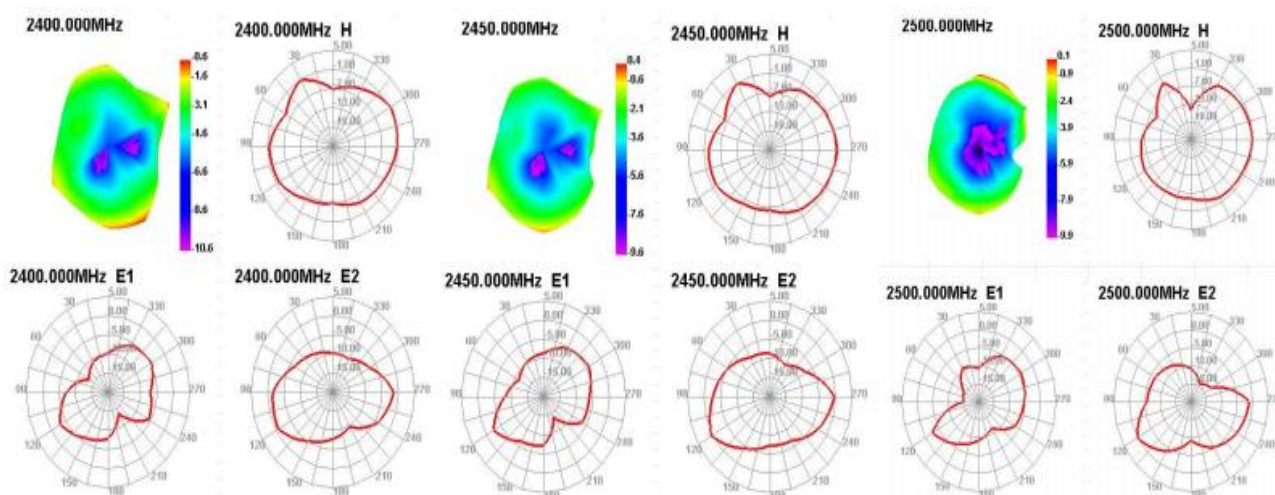
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)
2400	33.54	-4.74	-0.56	-2.71	15.679	17.862
2410	35.57	-4.49	-0.35	-2.5	16.659	18.906
2420	36.38	-4.39	-0.26	-2.41	16.837	19.546
2430	34.93	-4.57	-0.25	-2.4	16.118	18.808
2440	35.53	-4.49	0.02	-2.13	16.123	19.403
2450	37.13	-4.3	0.39	-1.76	16.567	20.561
2460	38.33	-4.16	0.63	-1.52	16.816	21.517
2470	36.27	-4.4	0.63	-1.52	15.559	20.712
2480	34.28	-4.65	0.41	-1.74	14.413	19.871
2490	32.82	-4.84	0.3	-1.85	13.611	19.213
2500	32.38	-4.9	0.1	-2.05	13.281	19.098



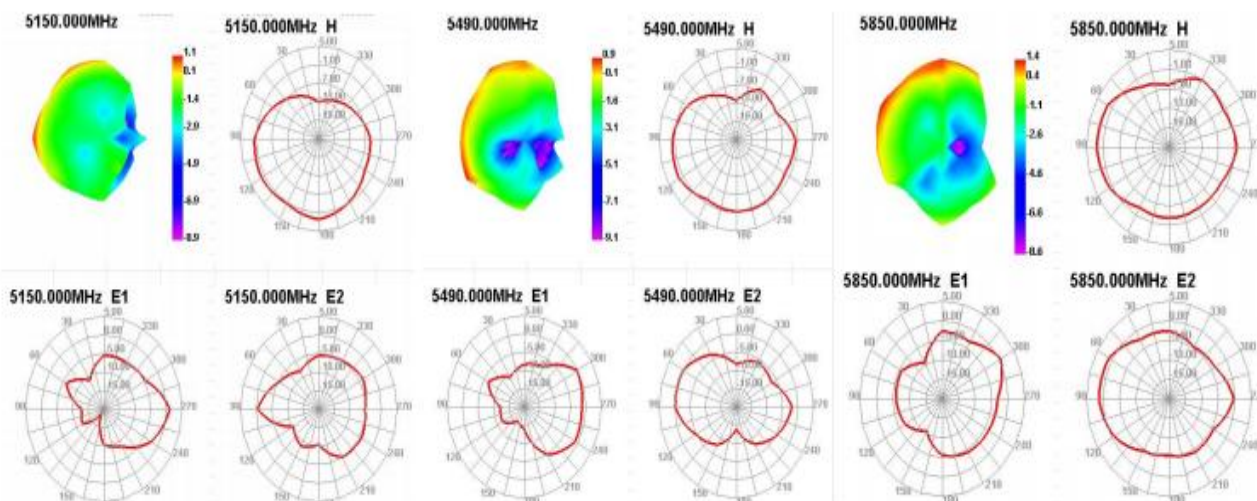
Efficiency Table (5G)

Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	30.59	-5.14	1.1	-1.05	16.546	14.042
5170	34.41	-4.63	1.44	-0.71	18.614	15.792
5190	35.79	-4.46	1.07	-1.08	19.386	16.402
5210	40.34	-3.94	1.63	-0.52	21.901	18.441
5230	35.31	-4.52	1.37	-0.78	19.306	16.005
5250	44.39	-3.53	2.07	-0.08	24.406	19.983
5270	37.21	-4.29	1.03	-1.12	20.383	16.822
5290	43.79	-3.59	1.73	-0.42	24.15	19.636
5310	35.93	-4.45	0.98	-1.17	19.928	15.999
5330	35.64	-4.48	1.2	-0.95	19.777	15.862
5350	37.09	-4.31	1.4	-0.75	20.677	16.413
5370	34.86	-4.58	1.07	-1.08	19.53	15.328
5390	34.23	-4.66	0.74	-1.41	19.295	14.937
5410	39.52	-4.03	1.27	-0.88	22.255	17.26
5430	40.56	-3.92	1.04	-1.11	22.836	17.728
5450	41.69	-3.8	0.85	-1.3	23.576	18.111
5470	41.99	-3.77	1.07	-1.08	23.769	18.221
5490	39.41	-4.04	0.93	-1.22	22.438	16.969
5510	43.14	-3.65	1.12	-1.03	24.724	18.414
5530	41.75	-3.79	0.58	-1.57	23.879	17.875
5550	46.08	-3.36	0.7	-1.45	26.357	19.726
5570	41.29	-3.84	0.33	-1.82	23.558	17.734
5590	43.27	-3.64	0.58	-1.57	24.658	18.616
5610	43.26	-3.64	1.06	-1.09	24.908	18.35
5630	44.83	-3.48	1.3	-0.85	25.722	19.103
5650	46.77	-3.3	1.77	-0.38	27.115	19.654
5670	52.36	-2.81	2.08	-0.07	30.439	21.919
5690	46.04	-3.37	1.56	-0.59	26.885	19.158
5710	50.57	-2.96	1.8	-0.35	29.649	20.916
5730	51.32	-2.9	1.46	-0.69	29.844	21.48
5750	46.86	-3.29	0.91	-1.24	27.002	19.861
5770	51.48	-2.88	1.32	-0.83	29.665	21.815
5790	46.25	-3.35	0.79	-1.36	26.81	19.441
5810	48.52	-3.14	0.93	-1.22	28.276	20.244
5830	47.59	-3.22	0.92	-1.23	27.668	19.923
5850	51.18	-2.91	1.4	-0.75	29.422	21.76

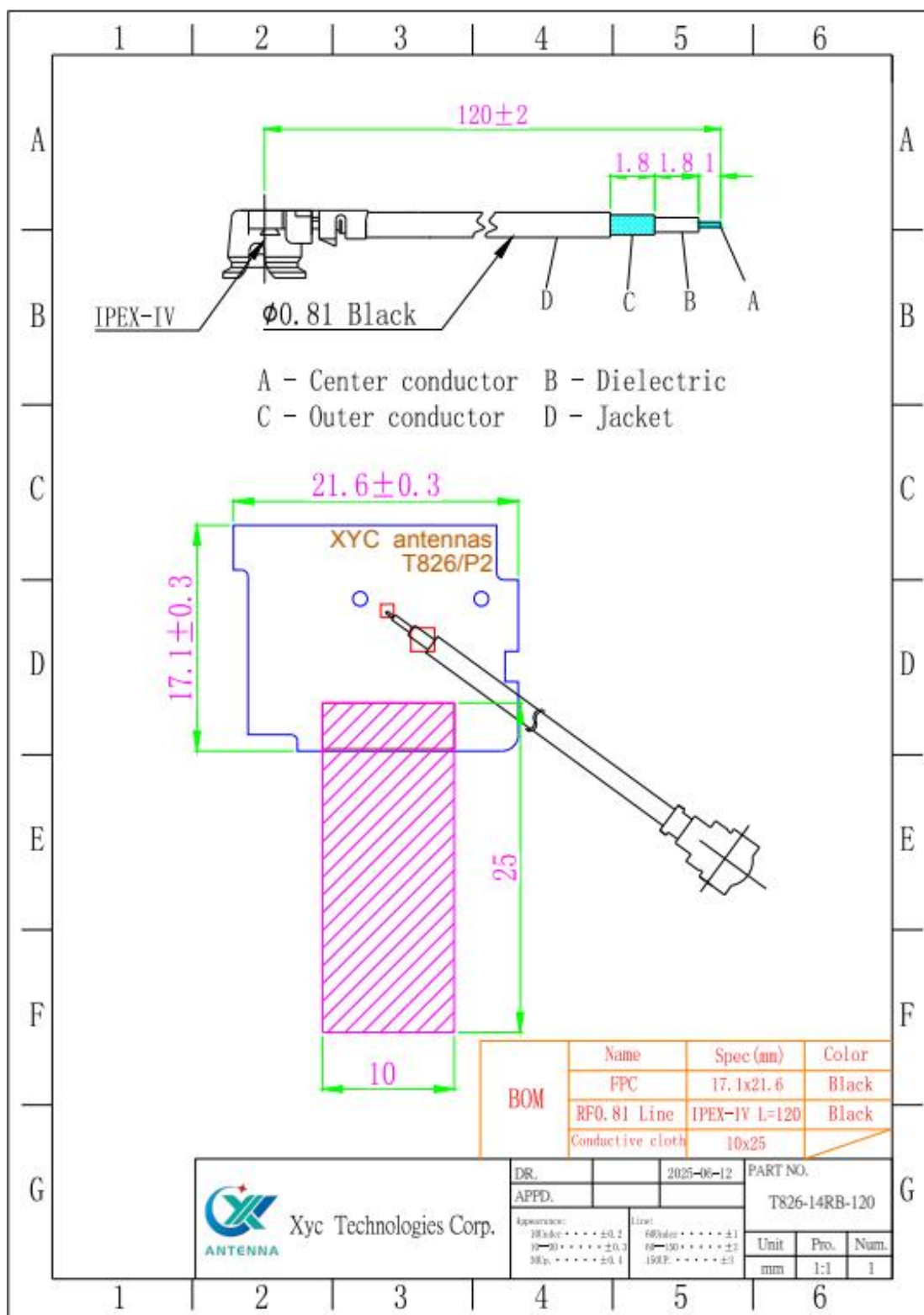
Radiation Pattern(2.4G)



Radiation Pattern(5G)



Antenna Assembly



Notes

