



深圳市星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

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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	50.11%@2.4G; 54.20%@5G
Peak Gain	1.48dBi@2.4G; 3.76dBi@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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WiFi Ant Test Information

Frequency

2.4G (2402~2483) Mhz

5G (5150~5850) Mhz

Module
information



Driver version
information

Realtek 8851BE Wireless LAN WiFi 6 PCI-E NIC #3 Properties

Events Resources Power Management
General Advanced Driver Details



Realtek 8851BE Wireless LAN WiFi 6 PCI-E NIC #3

Driver Provider: Realtek Semiconductor Corp.
Driver Date: 8/22/2025
Driver Version: 6101.19.133.0
Digital Signer: Microsoft Windows Hardware Compatibility Publisher

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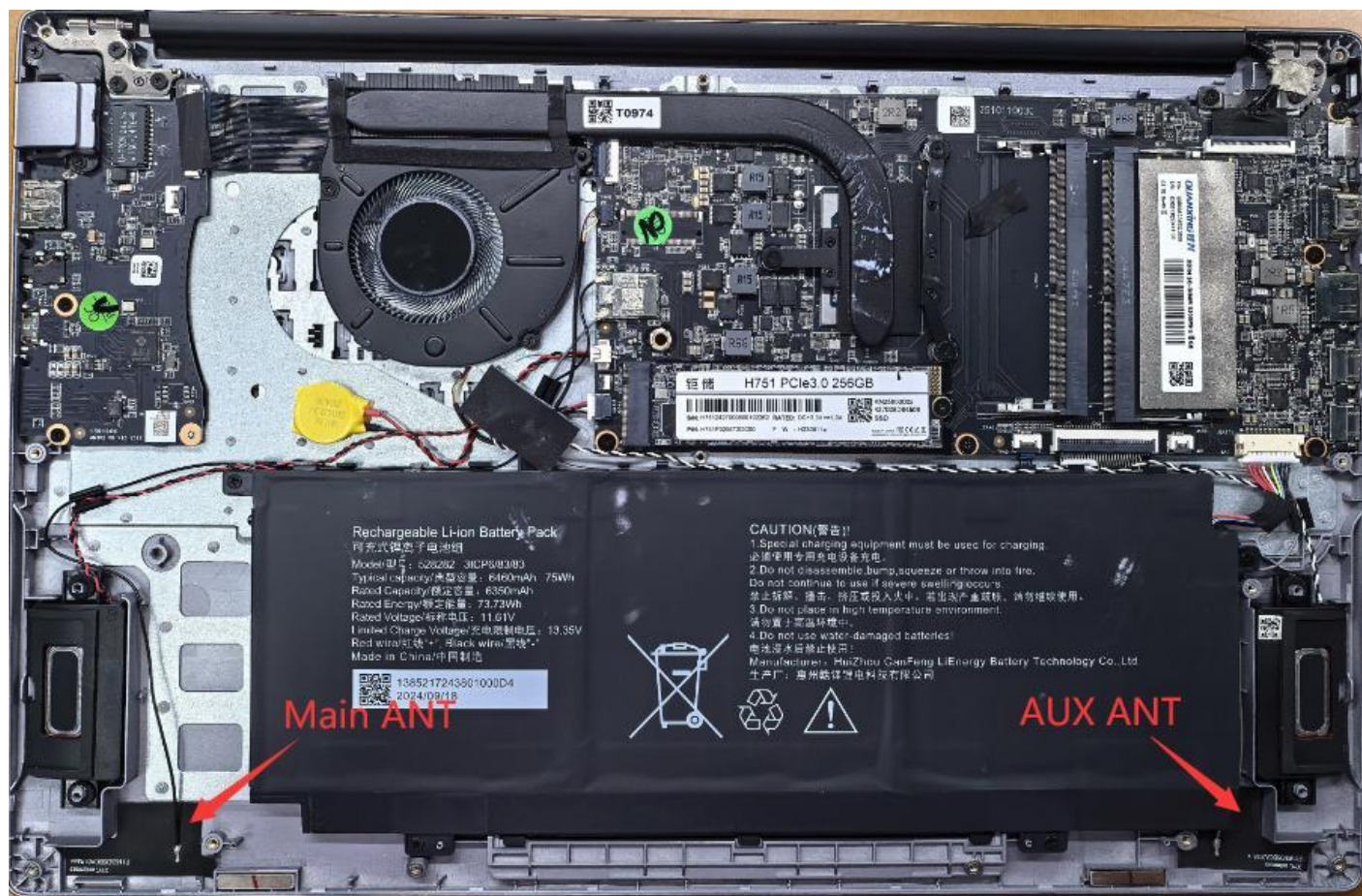
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Antenna Placement



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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.79	1.53	1.22	1.27
Return Loss (DB)	-10.88	-13.45	-20.01	-18.28

WiFi Active Test Data

802.11b	Frequency	TRP		TIS (LDC ON)		TIS (LDC OFF)
	2412	CH1 11Mbps	9.33	CH1 11Mbps	-73.76	-81.71
	2437	CH6 11Mbps	9.17	CH6 11Mbps	-74.82	-81.31
	2467	CH11 11Mbps	9.87	CH11 11Mbps	-70	-80.16
802.11a		TRP		TIS		
	5180	CH36 6Mbps	9.9	CH36 54Mbps	-68.57	
	5300	CH60 6Mbps	10.53	CH60 54Mbps	-69.23	
	5805	CH161 6Mbps	9.33	CH161 54Mbps	-69.2	

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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	37.75	-4.23	1.3	-0.85	22.324	15.422	1.3	-22
5170	37.96	-4.21	1.2	-0.95	22.284	15.679	1.2	-20.56
5190	37.88	-4.22	1.18	-0.97	22.061	15.819	1.18	-17.78
5210	41.22	-3.85	1.79	-0.36	23.973	17.247	1.79	-14.89
5230	38.51	-4.14	1.65	-0.5	22.41	16.097	1.65	-14.15
5250	43.71	-3.59	2.65	0.5	25.199	18.509	2.65	-13.31
5270	44.34	-3.53	3.04	0.89	25.317	19.02	3.04	-13.68
5290	48.34	-3.16	3.46	1.31	27.356	20.985	3.46	-15.78
5310	45.08	-3.46	2.85	0.7	25.218	19.859	2.85	-16.55
5330	46.55	-3.32	2.92	0.77	25.58	20.968	2.92	-15.06
5350	49.26	-3.08	3.16	1.01	26.841	22.418	3.16	-13.98
5370	46.67	-3.31	2.68	0.53	25.366	21.307	2.68	-14.03
5390	40.73	-3.9	1.65	-0.5	21.996	18.737	1.65	-15.79
5410	45.88	-3.38	2.35	0.2	24.851	21.025	2.35	-17.54
5430	43.22	-3.64	2.34	0.19	23.715	19.505	2.34	-18.46
5450	45.91	-3.38	2.54	0.39	25.565	20.346	2.54	-19.91
5470	44.74	-3.49	2.39	0.24	25.135	19.605	2.39	-21.09
5490	44.44	-3.52	2.61	0.46	24.968	19.468	2.61	-20
5510	45.23	-3.45	2.67	0.52	25.488	19.745	2.67	-18.72
5530	46.05	-3.37	2.83	0.68	25.887	20.162	2.83	-18.67
5550	48.19	-3.17	3.21	1.06	26.966	21.225	3.21	-18.14
5570	45.1	-3.46	2.8	0.65	25.007	20.095	2.8	-15.53
5590	48.62	-3.13	3.2	1.05	26.576	22.047	3.2	-15.92
5610	44.95	-3.47	2.93	0.78	24.877	20.072	2.93	-15.9
5630	49.91	-3.02	3.25	1.1	27.781	22.133	3.25	-13.69
5650	43.57	-3.61	2.79	0.64	24.116	19.45	2.79	-13.21
5670	52.02	-2.84	3.53	1.38	28.124	23.892	3.53	-11.87
5690	46.07	-3.37	2.81	0.66	24.414	21.658	2.81	-12.23
5710	50.49	-2.97	3.05	0.9	26.566	23.927	3.05	-11.53
5730	51.9	-2.85	3.08	0.93	27.011	24.885	3.08	-12.93
5750	48.53	-3.14	2.8	0.65	24.691	23.837	2.8	-14.04
5770	52.33	-2.81	3.05	0.9	26.233	26.093	3.05	-15.47
5790	47.15	-3.26	2.49	0.34	23.527	23.626	2.49	-17.38
5810	49.76	-3.03	2.71	0.56	24.812	24.944	2.71	-17.06
5830	48.91	-3.11	3.06	0.91	24.146	24.769	3.06	-16.94
5850	54.2	-2.66	3.76	1.61	26.416	27.787	3.76	-16.01

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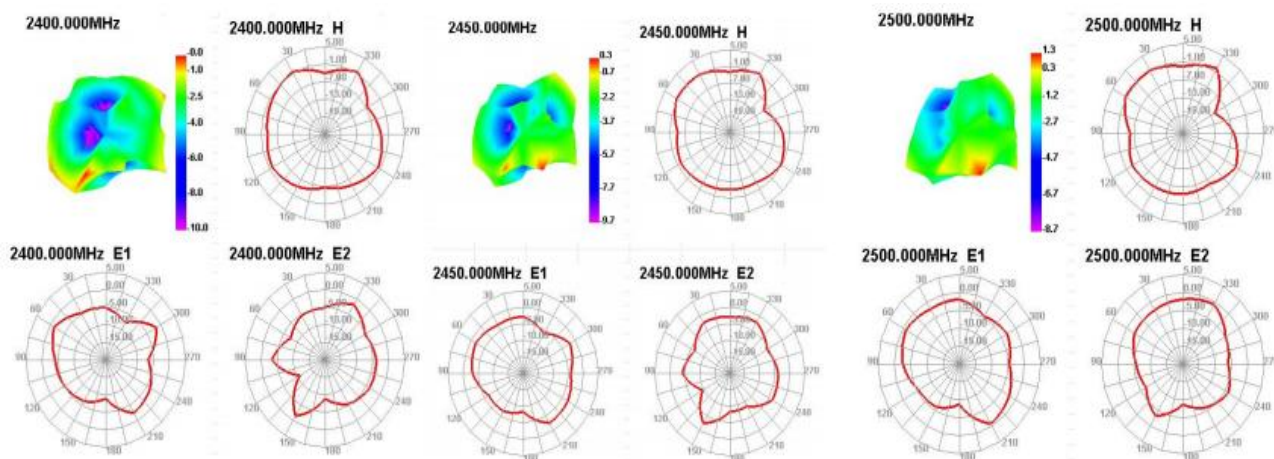
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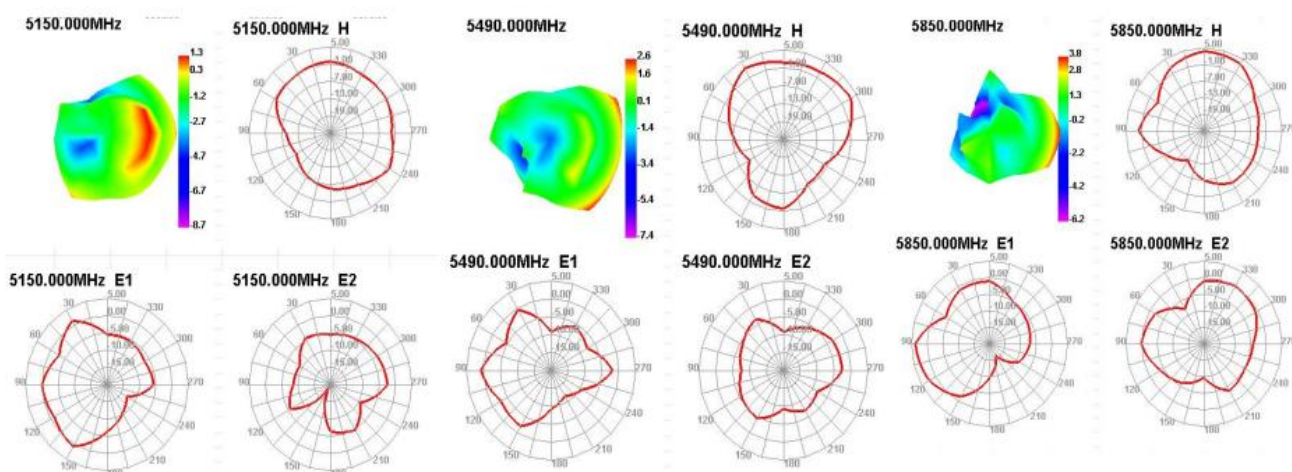
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Radiation Pattern (2.4G)



Radiation Pattern (5G)



BT Test

测试环境：走廊通道

测试工具：蓝牙音箱

测试距离：10+M（播放音乐流畅无卡顿）

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Throughput test

RVR测试系统(2G-AX-40M-1-CH6)

TX

RX

WiFi RvR 测试数据(2G_ax_40M_CH6I_TX)

WiFi RvR 测试数据(2G_ax_40M_CH6I_RX)

图片

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	239	237	225	226	160
90.0°	239	240	226	238	158
180.0°	239	239	225	239	170
270.0°	239	239	239	211	126
平均	239.00	238.80	228.80	228.50	153.50
方差	0.00	1.30	6.80	13.10	19.10

图片

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	245	240	236	181	86
90.0°	240	239	237	188	118
180.0°	239	240	237	194	127
270.0°	239	239	239	144	67
平均	240.80	239.50	237.30	176.80	99.50
方差	2.90	0.60	1.30	22.50	27.90

RVR测试系统(5G-AX-80M-1-CH60)

TX

RX

WiFi RvR 测试数据(5G_ax_80M_CH60_TX)

WiFi RvR 测试数据(5G_ax_80M_CH60_RX)

图片

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	508	511	379	278	102
90.0°	507	509	506	364	237
180.0°	510	461	396	275	104
270.0°	509	509	499	403	234
平均	508.50	497.50	445.00	330.00	169.30
方差	1.30	24.40	66.80	63.80	76.50

图片

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	503	503	470	330	164
90.0°	499	497	499	419	272
180.0°	496	468	488	316	158
270.0°	500	500	499	436	272
平均	499.50	492.00	489.00	375.30	216.50
方差	2.90	16.20	13.70	61.00	64.10

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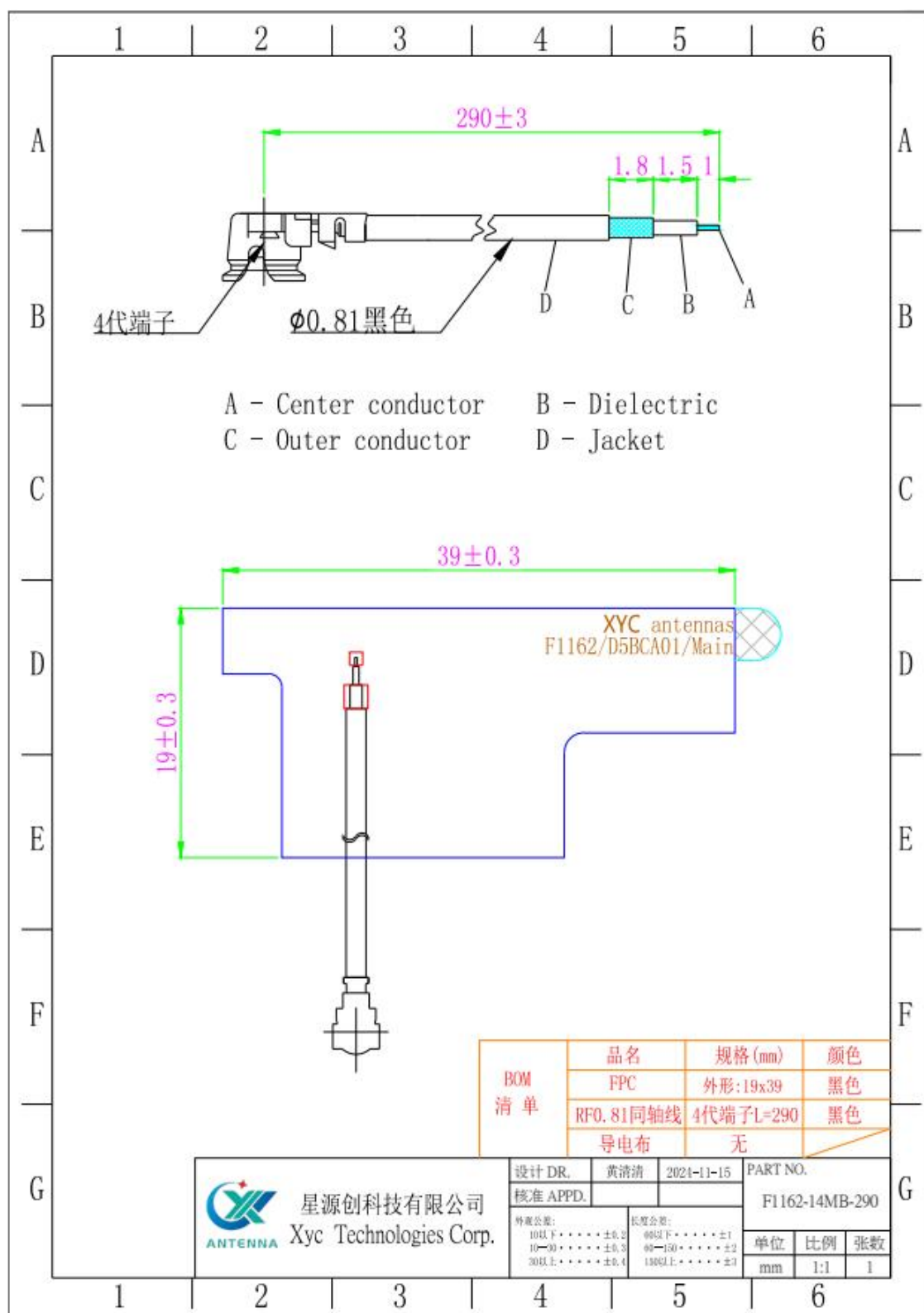
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Antenna Assembly



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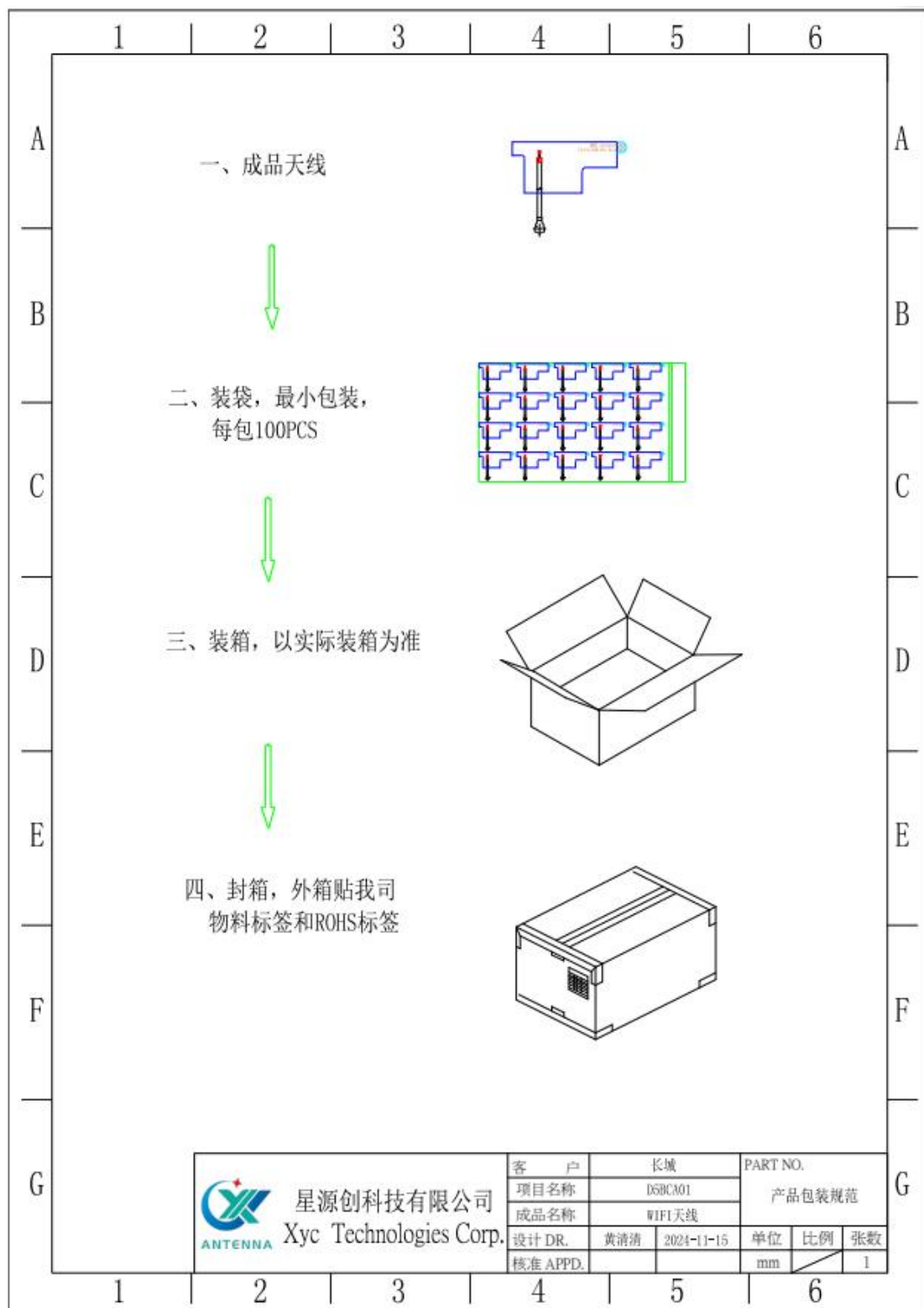
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