



规格承认书

Approval Sheet

客户名称 Customer	索沃思	日期 Data	2026/08/07
产品名称 Product	WiFi天线	客户机型 Models	B50J
料号 P/N	Main: F505A-14MG-155 Aux: F328-14RB-085	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; Main: RF0.81四代端子黑色同轴线, L=155mm; Aux: RF0.81四代端子灰色同轴线, L=85mm		

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



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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	60%@2.4G; 57%@5G
Peak Gain	3.5dBi@2.4G; 3.6dBi@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

WIFI ANT Test information		
Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

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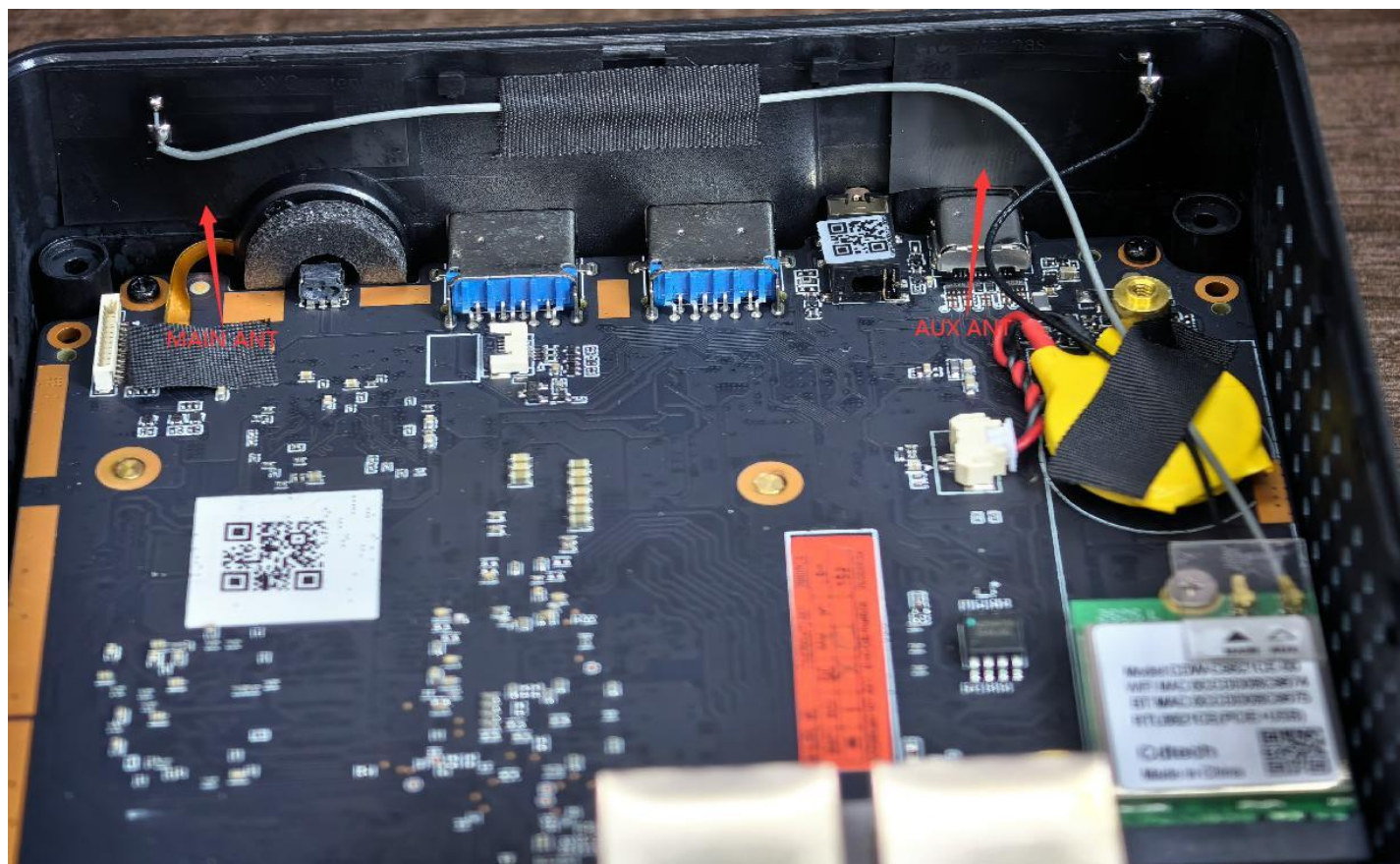
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Antenna Placement

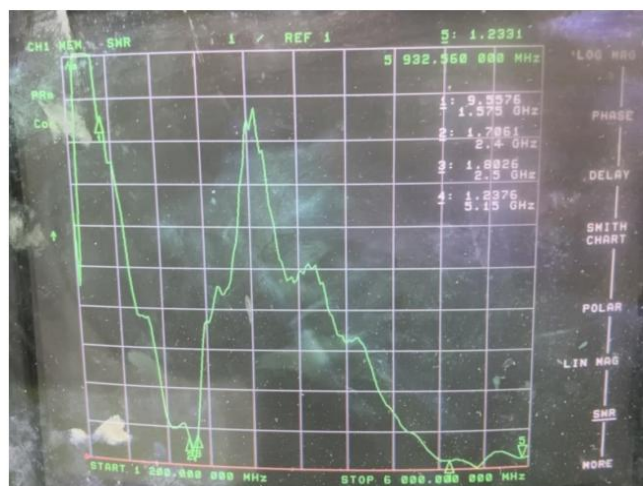


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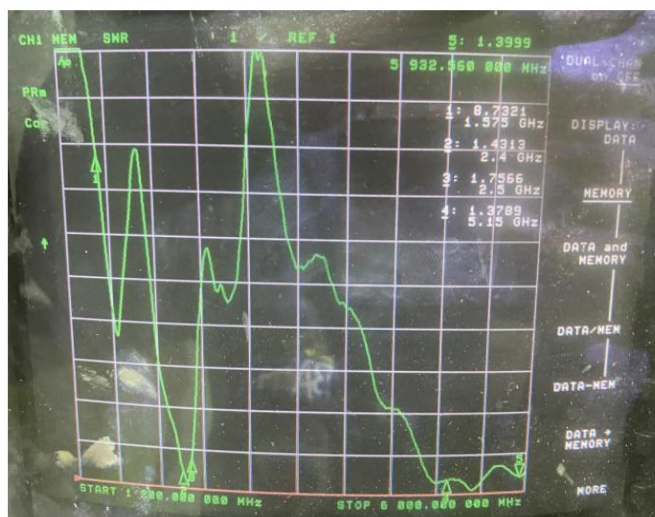
Test Data

S11 Parameter-VSWR (ANT1)



Frequency (MHZ)	2400	2450	2483	5150
VSWR	1.7	1.8	1.23	1.23
Return Loss (DB)	-11.67	-11.05	-17.47	-19.62

S11 Parameter-VSWR (ANT2)



Frequency (MHZ)	2400	2450	2483	5150
VSWR	1.43	1.75	1.37	1.39
Return Loss (DB)	-15.02	-11.42	-15.95	-15.56

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Efficiency Table (2.4G ANT1)

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	51.84	-2.85	2.66	0.51	27.809	24.033	2.66	-15.68
2410	49.47	-3.06	2.44	0.29	26.485	22.987	2.44	-18.95
2420	46.99	-3.28	2.04	-0.11	24.653	22.334	2.04	-20.5
2430	43.68	-3.6	1.55	-0.6	22.145	21.538	1.55	-16.38
2440	42.94	-3.67	1.6	-0.55	21.269	21.667	1.6	-20.59
2450	44.56	-3.51	2.07	-0.08	22.285	22.276	2.07	-21.72
2460	48.03	-3.18	2.27	0.12	24.786	23.248	2.27	-19.43
2470	50.81	-2.94	2.29	0.14	26.769	24.041	2.29	-19.83
2480	54.35	-2.65	2.39	0.24	29.018	25.328	2.39	-19.36
2490	55.46	-2.56	2.37	0.22	29.793	25.668	2.37	-19.18
2500	54.67	-2.62	2.33	0.18	29.495	25.176	2.33	-18.72

Efficiency Table (2.4G ANT2)

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
2400	43.99	-3.57	1.68	-0.47	18.274	25.712	1.68	-19.75
2410	46.33	-3.34	1.99	-0.16	19.122	27.207	1.99	-21.58
2420	49.06	-3.09	2.22	0.07	20.206	28.858	2.22	-22.07
2430	50.73	-2.95	2.32	0.17	20.817	29.912	2.32	-20.65
2440	53.83	-2.69	2.54	0.39	22.048	31.785	2.54	-18.74
2450	56.64	-2.47	2.78	0.63	23.115	33.52	2.78	-17.73
2460	57.57	-2.4	2.99	0.84	23.441	34.127	2.99	-16.54
2470	57.98	-2.37	3.17	1.02	23.582	34.396	3.17	-15.23
2480	60.15	-2.21	3.49	1.34	24.508	35.646	3.49	-15.88
2490	58.92	-2.3	3.55	1.4	24.093	34.831	3.55	-17.26
2500	56.8	-2.46	3.46	1.31	23.345	33.45	3.46	-19.05

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Efficiency Table (5G ANT1)

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	44.63	-3.5	1.74	-0.41	28.399	16.233	1.74	-18.52
5170	43.4	-3.63	1.69	-0.46	27.634	15.764	1.69	-18.08
5190	45.23	-3.45	1.91	-0.24	28.748	16.481	1.91	-18.19
5210	42.2	-3.75	1.51	-0.64	26.782	15.414	1.51	-17.21
5230	44.42	-3.52	1.74	-0.41	28.28	16.143	1.74	-18.12
5250	42.26	-3.74	1.33	-0.82	26.988	15.269	1.33	-18.06
5270	46.4	-3.34	1.67	-0.48	29.709	16.686	1.67	-17.22
5290	48.69	-3.13	2.15	0	31.403	17.289	2.15	-15.58
5310	47.64	-3.22	2.17	0.02	31.027	16.614	2.17	-14.99
5330	49.61	-3.04	2.24	0.09	32.53	17.079	2.24	-14.82
5350	52.7	-2.78	2.4	0.25	34.663	18.038	2.4	-15.49
5370	51.08	-2.92	2.18	0.03	33.702	17.38	2.18	-16.01
5390	48.98	-3.1	1.99	-0.16	32.494	16.486	1.99	-18.01
5410	58.96	-2.29	2.75	0.6	39.27	19.692	2.75	-17.54
5430	56.08	-2.51	2.49	0.34	37.379	18.698	2.49	-17.51
5450	56.31	-2.49	2.36	0.21	37.479	18.834	2.36	-17.97
5470	55.27	-2.58	2.58	0.43	36.832	18.438	2.58	-19.81
5490	53.72	-2.7	2.47	0.32	35.895	17.825	2.47	-21.88
5510	53.04	-2.75	2.24	0.09	35.512	17.528	2.24	-21.31
5530	53.7	-2.7	2.25	0.1	35.949	17.751	2.25	-18.56
5550	53.68	-2.7	2.41	0.26	35.785	17.894	2.41	-18.13
5570	52.72	-2.78	2.29	0.14	35.17	17.554	2.29	-17.84
5590	52.2	-2.82	2.25	0.1	34.964	17.235	2.25	-17.18
5610	52.06	-2.83	2.15	0	34.993	17.069	2.15	-22.56
5630	51.06	-2.92	1.79	-0.36	34.238	16.826	1.79	-27.25
5650	51.83	-2.85	1.9	-0.25	34.582	17.243	1.9	-18.87
5670	51.95	-2.84	1.85	-0.3	34.582	17.372	1.85	-19.26
5690	48.75	-3.12	1.58	-0.57	32.392	16.358	1.58	-23.43
5710	52.08	-2.83	1.89	-0.26	34.346	17.73	1.89	-28.04
5730	49.35	-3.07	1.84	-0.31	32.27	17.081	1.84	-23.78
5750	51.1	-2.92	2.15	0	33.139	17.964	2.15	-24.59
5770	50.01	-3.01	2.06	-0.09	32.178	17.834	2.06	-25.15
5790	50.28	-2.99	2.09	-0.06	31.955	18.324	2.09	-22.97
5810	51.48	-2.88	2.27	0.12	32.306	19.177	2.27	-20.77
5830	55.63	-2.55	2.7	0.55	34.607	21.027	2.7	-20.33
5850	54.01	-2.67	2.52	0.37	33.468	20.546	2.52	-22.58

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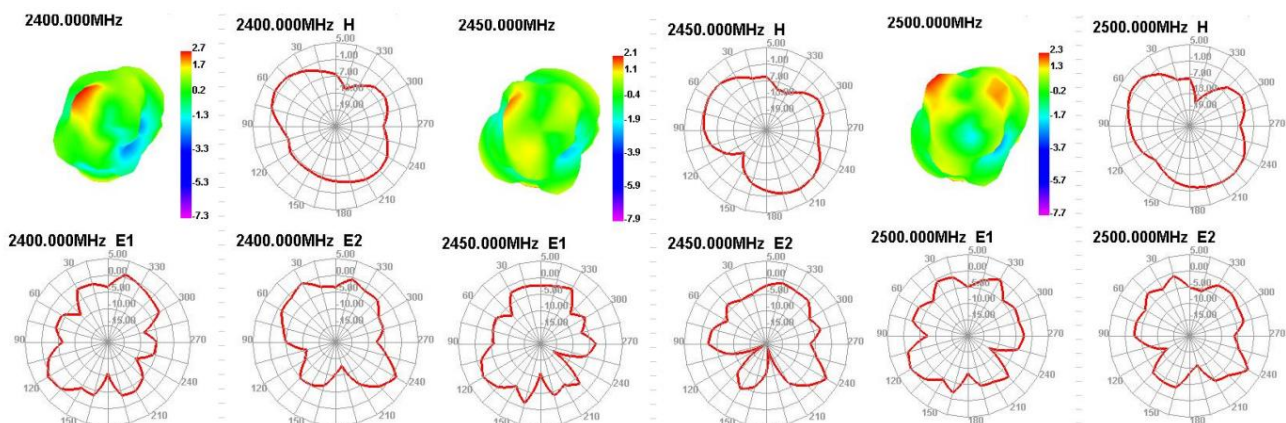
Efficiency Table (5G ANT2)

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
5150	43.35	-3.63	0.48	-1.67	23.721	19.629	0.48	-20.47
5170	42.41	-3.73	0.49	-1.66	23.509	18.903	0.49	-18.27
5190	43.98	-3.57	0.51	-1.64	24.645	19.337	0.51	-19.44
5210	41.39	-3.83	0.37	-1.78	23.576	17.815	0.37	-20.5
5230	44.69	-3.5	1.24	-0.91	25.828	18.862	1.24	-18.84
5250	42.59	-3.71	1.13	-1.02	24.828	17.759	1.13	-18.26
5270	46.98	-3.28	1.66	-0.49	27.473	19.506	1.66	-17.51
5290	48.71	-3.12	2.1	-0.05	28.565	20.145	2.1	-17.82
5310	47.7	-3.21	2.15	0	28.058	19.646	2.15	-16.95
5330	49.03	-3.1	2.02	-0.13	28.725	20.3	2.02	-17.91
5350	51.36	-2.89	2.43	0.28	29.775	21.586	2.43	-19.62
5370	49.58	-3.05	2.12	-0.03	28.47	21.115	2.12	-19.74
5390	47.48	-3.24	1.63	-0.52	27.193	20.284	1.63	-20.16
5410	57.86	-2.38	2.36	0.21	32.947	24.917	2.36	-21.03
5430	55.05	-2.59	1.98	-0.17	30.949	24.099	1.98	-19.35
5450	55.51	-2.56	1.81	-0.34	30.806	24.705	1.81	-15.72
5470	55.34	-2.57	1.37	-0.78	30.703	24.637	1.37	-15.4
5490	54.15	-2.66	1.31	-0.84	30.062	24.084	1.31	-15.5
5510	53.3	-2.73	1.28	-0.87	29.174	24.129	1.28	-14.9
5530	53.69	-2.7	2.06	-0.09	28.997	24.694	2.06	-16.92
5550	53.17	-2.74	2.29	0.14	28.71	24.456	2.29	-20.09
5570	52.92	-2.76	2.26	0.11	28.576	24.342	2.26	-19.94
5590	51.92	-2.85	2.53	0.38	27.662	24.261	2.53	-20.74
5610	50.81	-2.94	2.96	0.81	26.705	24.103	2.96	-20.81
5630	49.46	-3.06	2.9	0.75	25.987	23.473	2.9	-17.44
5650	51.12	-2.91	2.97	0.82	26.952	24.164	2.97	-18.49
5670	50.16	-3	3.15	1	26.213	23.948	3.15	-22.22
5690	48.33	-3.16	3.27	1.12	24.934	23.395	3.27	-19.29
5710	51.24	-2.9	3.6	1.45	26.482	24.753	3.6	-18.1
5730	49.38	-3.06	3.18	1.03	25.765	23.619	3.18	-18.41
5750	51.38	-2.89	3.25	1.1	26.809	24.571	3.25	-17.13
5770	49.41	-3.06	3.2	1.05	25.678	23.735	3.2	-15.55
5790	50.35	-2.98	3.33	1.18	26.271	24.079	3.33	-16.04
5810	52.02	-2.84	3.29	1.14	27.48	24.539	3.29	-17.19
5830	56.58	-2.47	3.6	1.45	30.04	26.537	3.6	-15.21
5850	54.01	-2.68	3.43	1.28	28.541	25.468	3.43	-14.69

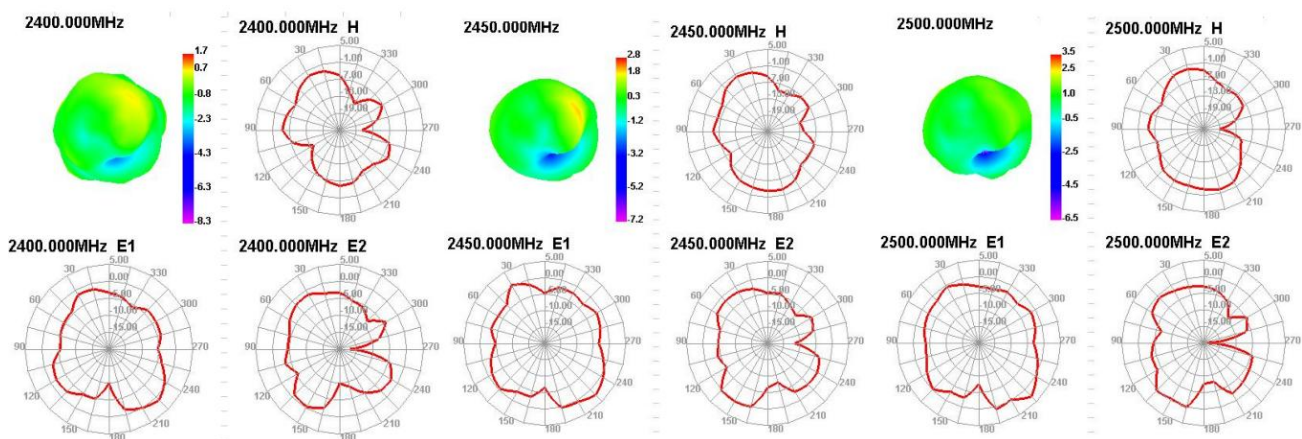
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Radiation Pattern(2.4G ANT1)



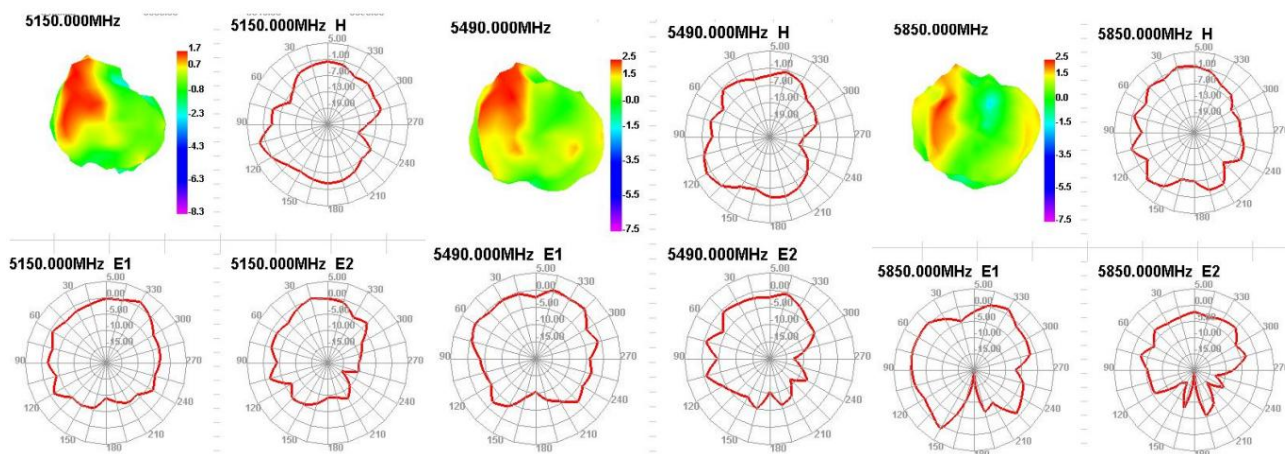
Radiation Pattern(2.4G ANT2)



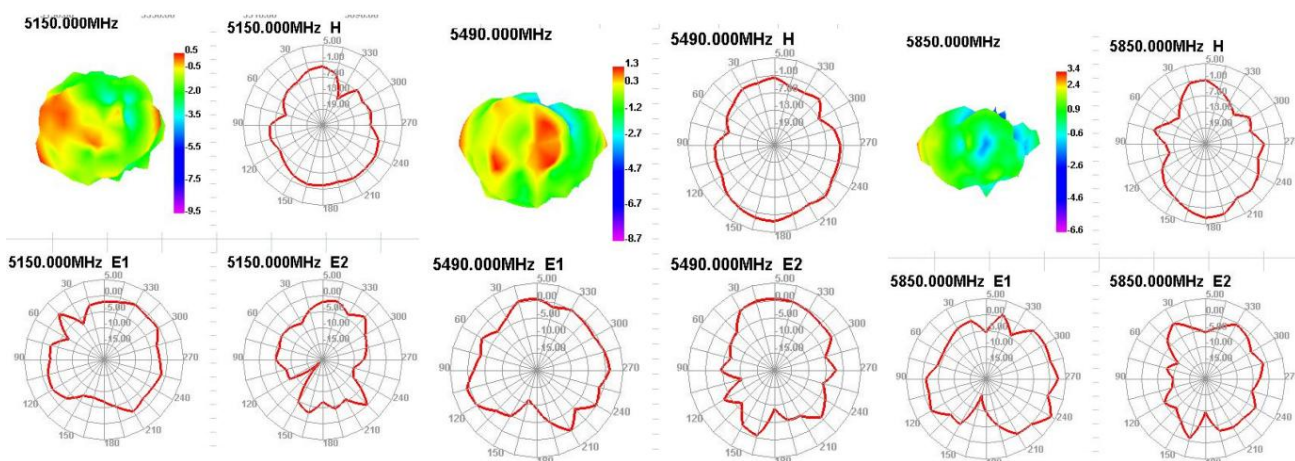
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Radiation Pattern(5G ANT1)



Radiation Pattern(5G ANT2)



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WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	12.51	CH1 11Mbps	-73.9
	2437	CH6 11Mbps	11.62	CH6 11Mbps	-72.7
	2467	CH11 11Mbps	11.05	CH11 11Mbps	-75.83
802.11a		TRP		TIS	
	5180	CH36 6Mbps	12.82	CH36 54Mbps	-71.72
	5300	CH60 6Mbps	12.94	CH60 54Mbps	-70.92
	5805	CH161 6Mbps	12.7	CH161 54Mbps	-71.44

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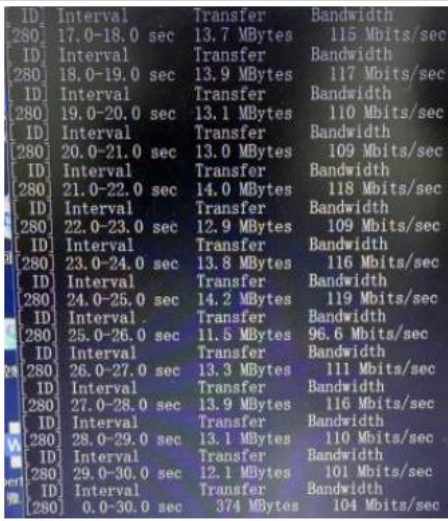


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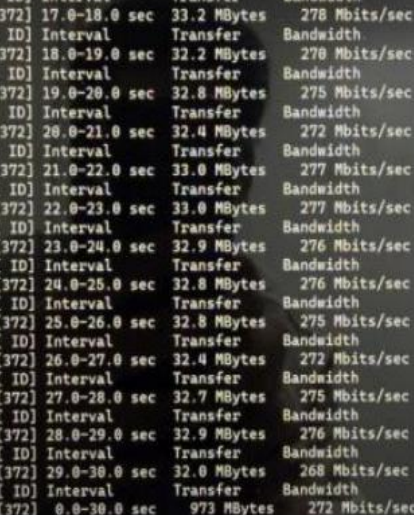
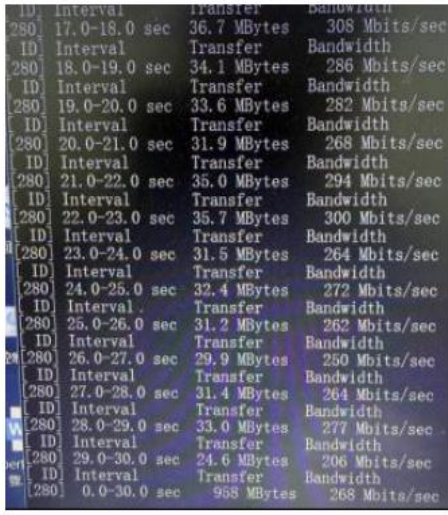
Throughput Test(2.4G)

2.4G wifi 吞吐量测试

上行	102M	下行	155M
图片		图片	

Throughput Test(5G)

5G wifi 吞吐量测试

上行	272M	下行	268M
图片		图片	

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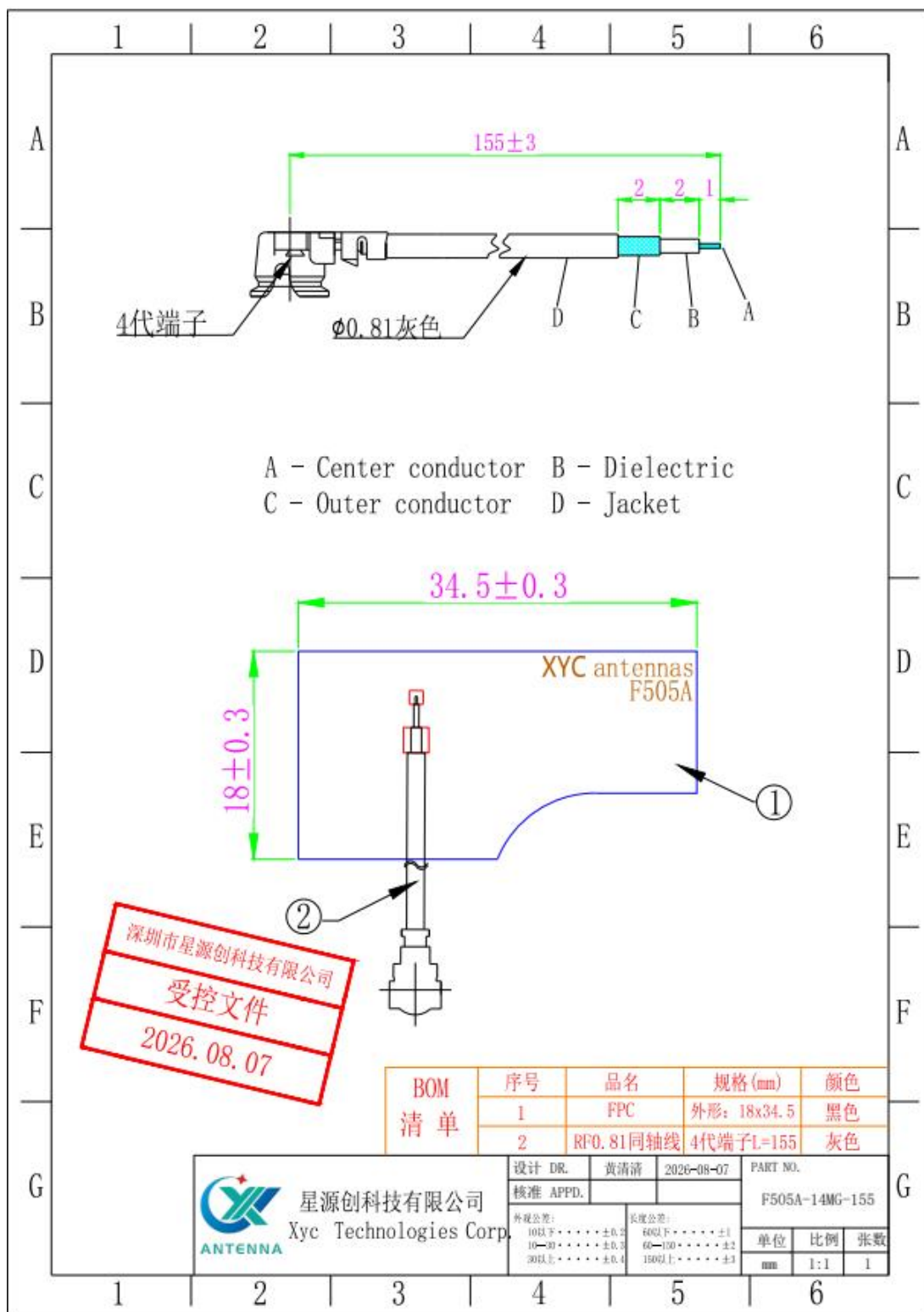


深圳市星源创科技有限公司

ANTENNA

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Assembly



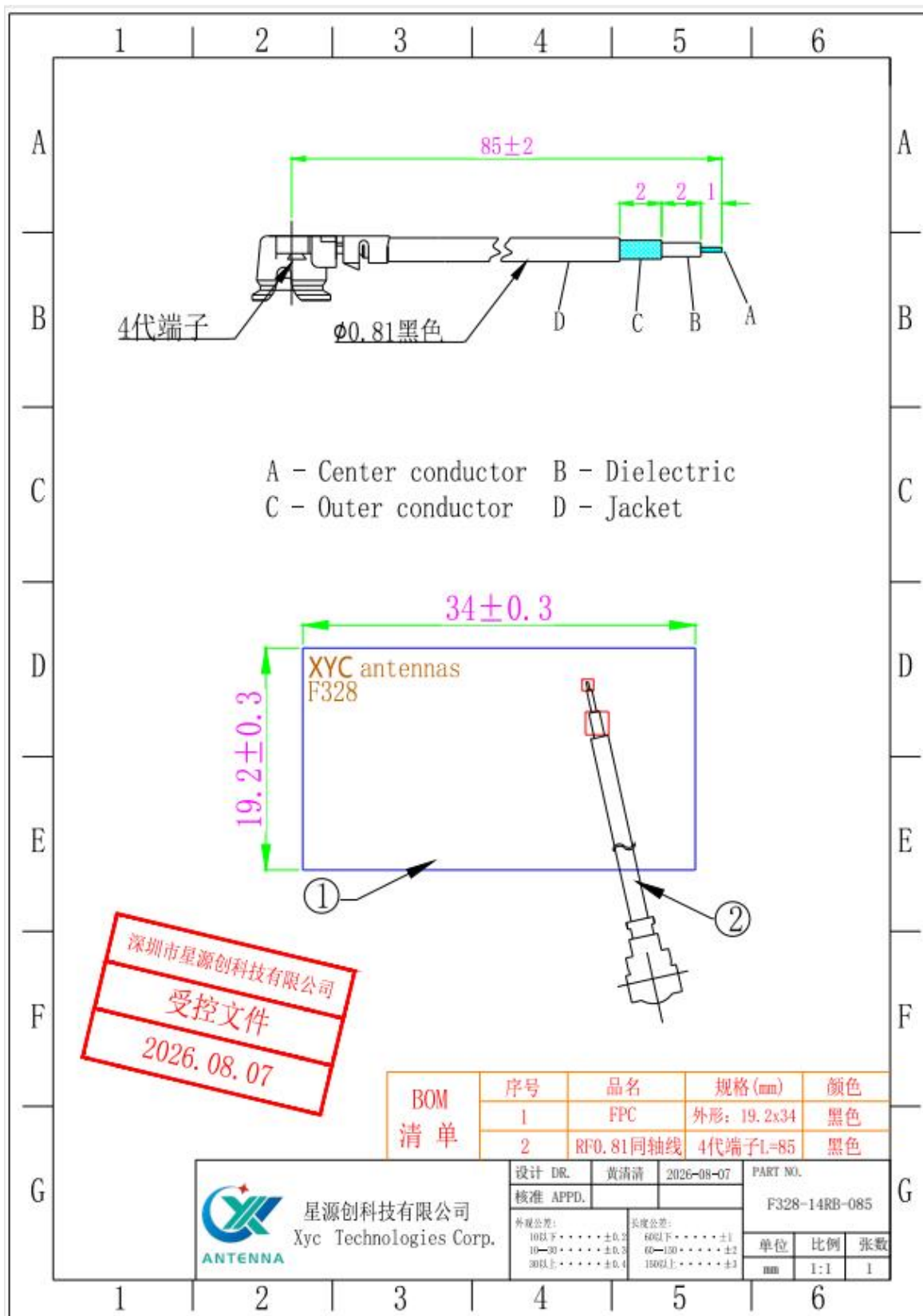
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Inspection Standard

深圳市星源创科技有限公司	文件编码	XYC-WI-PZ-02	页号
	文件版本	A0	1 of 1
文件名称	抽样计划		

抽样水平对照表

特殊检查水平				一般检查水平			批量范围	样本字码	抽样数	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2---8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9---15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16---25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26---50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51---90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91---150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151---280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281---500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501---1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201---3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201---10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001---35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001---150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001---500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC为合格项 RE为不合格项

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

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Bao'an District, Shenzhen City Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳市星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Sample Inspection Report



深圳市星源创科技有限公司 样品检验报告

客户	索沃思	品名规格	主天线	出货数量	5	抽样数量	2	
机型	B50J		料号	F505A-14MG-155		出货日期	2026/08/07	
检验标准	☒ 正常检验 ☐ 加严检验 ☐ 减量检验							
抽样方式	MIL-STD-105D (II) 单次抽样 接受限 AQL:CR: 0 Maj: 0.4 Min: 1.5							
质量允收水平		CR Acc	0	Maj ACC	0	Min ACC	0	
		CR REJ	1	Maj REJ	1	Min REJ	1	
项目	检验内容	检验要求	检验方法	检验结果				判定
				1	2	3	4	
尺寸检验	线总长	155±3	直尺	155	156	155	155	合格
	FPC外形	18±0.3	卡尺	18.1	18	18	18	合格
	FPC外形	34.5±0.3	卡尺	34.5	34.6	34.5	34.5	合格
项目	检验内容	检验要求	检验方法	缺陷描述	CR	Maj	Min	判定
外观检验	线外皮	外被有无刮伤现象	目视	无异常	0	0	0	合格
	焊盘加锡	无氧化、锡尖等现象	目视	无异常	0	0	0	合格
	IPEX	无缺料, 烈痕, 色差, 缩水, 烫伤, 无氧化、变色、变形脱线等不良现象	目视	无异常	0	0	0	合格
电气特性								
其它								
最终判定	☒ OK ☐ NG							

表格编号: XYC-WF-PZ-001

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深圳市星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd



深圳市星源创科技有限公司 样品检验报告

客户	索沃思	品名规格	副天线	出货数量	5	抽样数量	2	
机型	B50J		料号	F328-14RB-085		出货日期	2026/08/07	
检验标准	☒ 正常检验 ☐ 加严检验 ☐ 减量检验							
抽样方式	MIL-STD-105D (II) 单次抽样 接受限 AQL:CR: 0 Maj: 0.4 Min: 1.5							
质量允收水平		CR Acc	0	Maj ACC	0	Min ACC	0	
		CR REJ	1	Maj REJ	1	Min REJ	1	
项目	检验内容	检验要求	检验方法	检验结果				判定
				1	2	3	4	
尺寸检验	线总长	85±2	直尺	85	84	85	85	合格
	FPC外形	19.2±0.3	卡尺	19.2	19.2	19.1	19.2	合格
	FPC外形	34±0.3	卡尺	34	34.1	34	34	合格
项目	检验内容	检验要求	检验方法	缺陷描述	CR	Maj	Min	判定
外观检验	线外皮	外被有无刮伤现象	目视	无异常	0	0	0	合格
	焊盘加锡	无氧化、锡尖等现象	目视	无异常	0	0	0	合格
	IPEX	无缺料, 烈痕, 色差, 缩水, 烫伤, 无氧化、变色、变形脱线等不良现象	目视	无异常	0	0	0	合格
电气特性								
其它								
最终判定	☒ OK ☐ NG							

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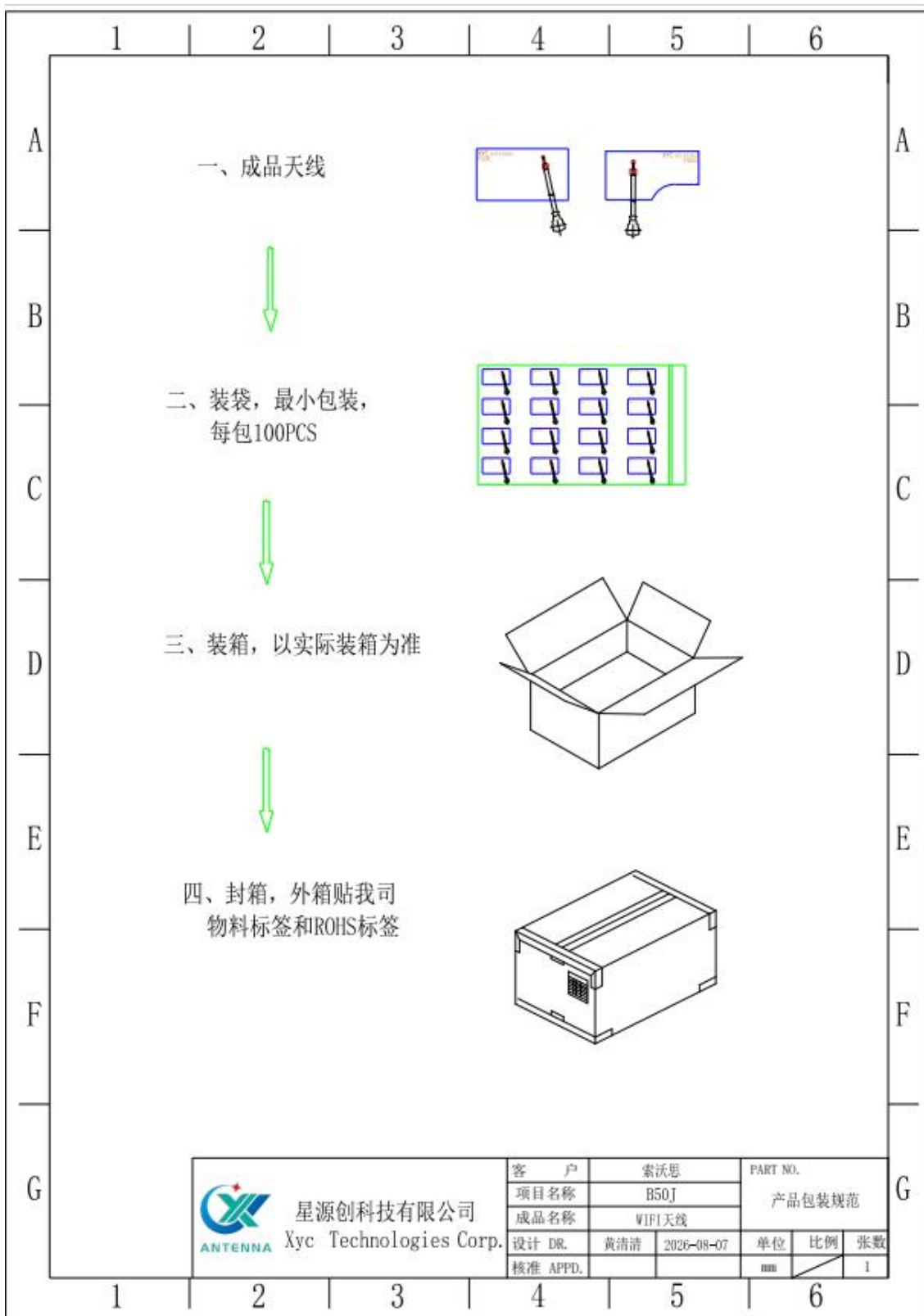
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Packing Specification



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