



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

天线规格书 Antenna Report

客户名称 Customer	shenzhenshijingxuansha ngpinkejiyouxiangongsi	日期 Data	2025/04/10
产品名称 Product	BT&WiFi Antenna	型号 Models	NCS154
料号 P/N	Main: F546A-14RB-280 Aux: F284A-14LG-320	客户料号 Customer P/N	主: 3010801000078 副: 3010801000079
规格描述 Specifications	Main: L=280mm; Aux: L=320mm		

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: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳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	2.4 : 2400-2500MHz 5G : 5150-5850MHz
Antenna From	PIFA Antenna
Impedance	50 Ω
Polarization	Linear
Peak Effi	63%@2.4G; 55%@5G
Peak Gain	2.47dBi@2.4G Max; 3.88dBi@5G Max

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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Ant Test Information

Frequency	2.4G(2402~2483)Mhz	5G(5150~5850)Mhz
Module information		

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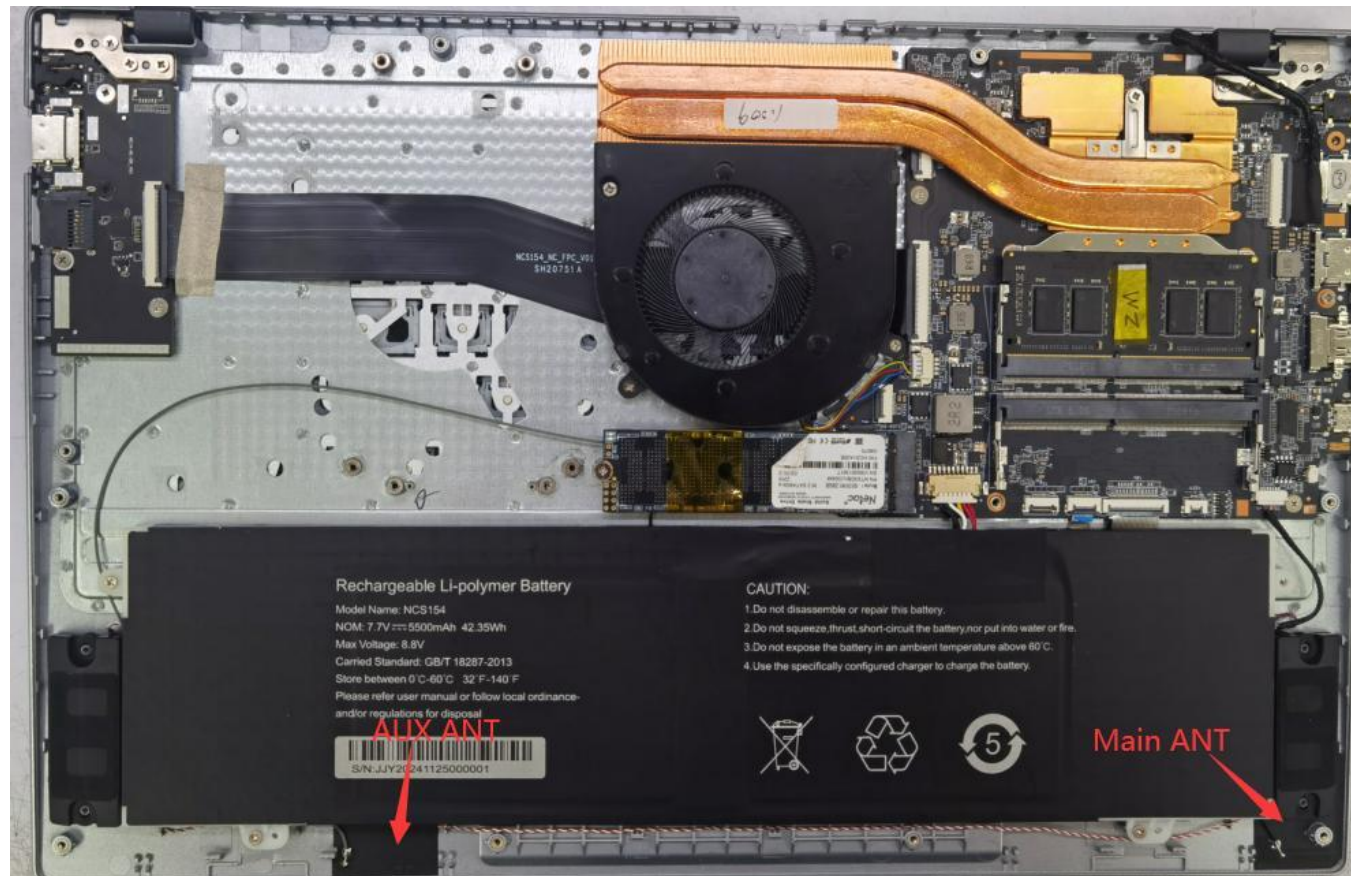
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Antenna Placement



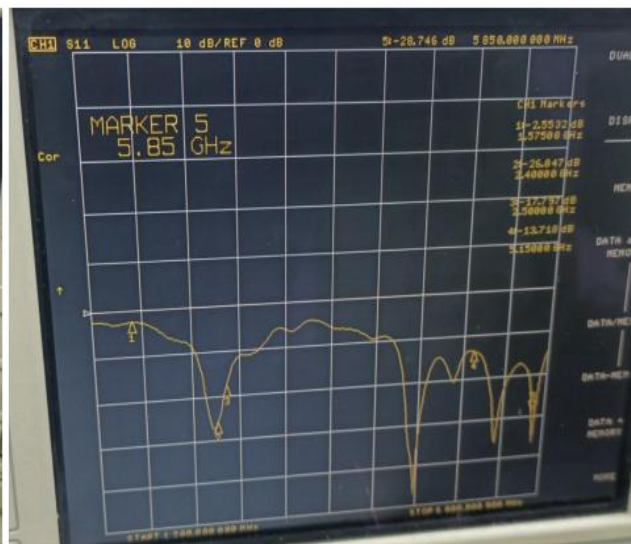
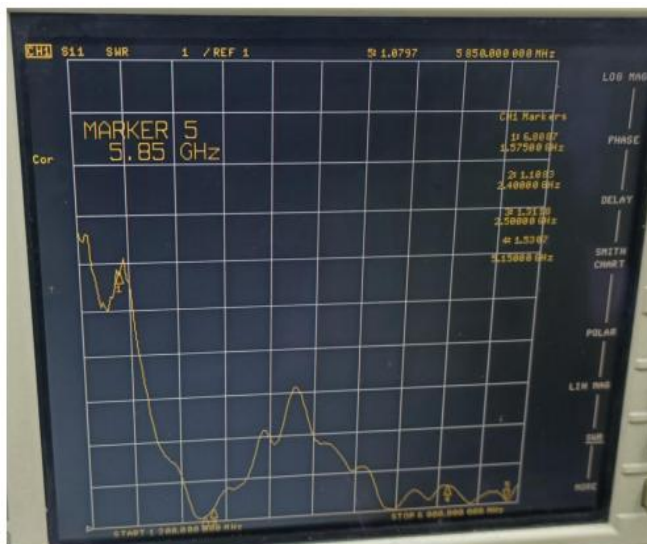
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.10	1.31	1.53	1.07
Return Loss (DB)	-26.04	-15.16	-13.71	-28.74

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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 (%)
2400	58.64	-2.32	2.47	0.32	37.143	21.499
2410	57.47	-2.41	2.41	0.26	36.348	21.12
2420	54.14	-2.67	2.1	-0.05	34.104	20.033
2430	51.86	-2.85	1.8	-0.35	32.782	19.079
2440	53.29	-2.73	1.94	-0.21	33.842	19.447
2450	56	-2.52	2.16	0.01	35.632	20.371
2460	57.52	-2.4	2.37	0.22	36.482	21.039
2470	58.01	-2.37	2.26	0.11	36.548	21.459
2480	60.76	-2.16	2.36	0.21	38.048	22.712
2490	61.97	-2.08	2.36	0.21	38.562	23.413
2500	60.8	-2.16	2.24	0.09	37.809	22.992

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Efficiency Table (5G Ant2)

Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	34.49	-4.62	0.04	-2.11	18.393	16.093
5170	32.47	-4.88	-0.56	-2.71	17.692	14.782
5190	34.45	-4.63	-0.36	-2.51	19.108	15.345
5210	32.6	-4.87	-0.3	-2.45	18.343	14.257
5230	35.99	-4.44	0.42	-1.73	20.349	15.636
5250	33.66	-4.73	0.09	-2.06	19.245	14.419
5270	36.3	-4.4	0.6	-1.55	21.062	15.241
5290	36.35	-4.39	1.22	-0.93	21.249	15.103
5310	35.8	-4.46	1.55	-0.6	20.903	14.896
5330	37.25	-4.29	1.64	-0.51	21.737	15.508
5350	40.26	-3.95	1.69	-0.46	23.71	16.548
5370	39.04	-4.08	1.72	-0.43	23.148	15.896
5390	35.82	-4.46	1.75	-0.4	21.108	14.709
5410	43.94	-3.57	2.82	0.67	25.617	18.321
5430	40.72	-3.9	2.29	0.14	23.701	17.018
5450	43.38	-3.63	2.54	0.39	25.354	18.023
5470	39.77	-4	2.25	0.1	22.982	16.785
5490	42.68	-3.7	3.08	0.93	24.523	18.16
5510	40.87	-3.89	3.07	0.92	23.292	17.578
5530	43.56	-3.61	3.21	1.06	24.802	18.762
5550	43.49	-3.62	3.25	1.1	24.635	18.855
5570	41.35	-3.84	3.35	1.2	23.409	17.938
5590	42.87	-3.68	3.73	1.58	24.378	18.489
5610	40.32	-3.95	3.15	1	22.983	17.332
5630	45.61	-3.41	3.72	1.57	26.155	19.457
5650	39.65	-4.02	3.27	1.12	22.768	16.883
5670	45.02	-3.47	3.88	1.73	25.835	19.188
5690	39.5	-4.03	2.98	0.83	22.68	16.825
5710	45.48	-3.42	3.3	1.15	26.149	19.333
5730	43.48	-3.62	3.14	0.99	24.979	18.506
5750	42.91	-3.67	3.1	0.95	24.409	18.505
5770	42.88	-3.68	2.85	0.7	24.544	18.337
5790	42.54	-3.71	2.49	0.34	24.583	17.958
5810	45.55	-3.42	2.91	0.76	26.298	19.25
5830	46.17	-3.36	2.96	0.81	26.334	19.831
5850	47.85	-3.2	3	0.85	27.3	20.55

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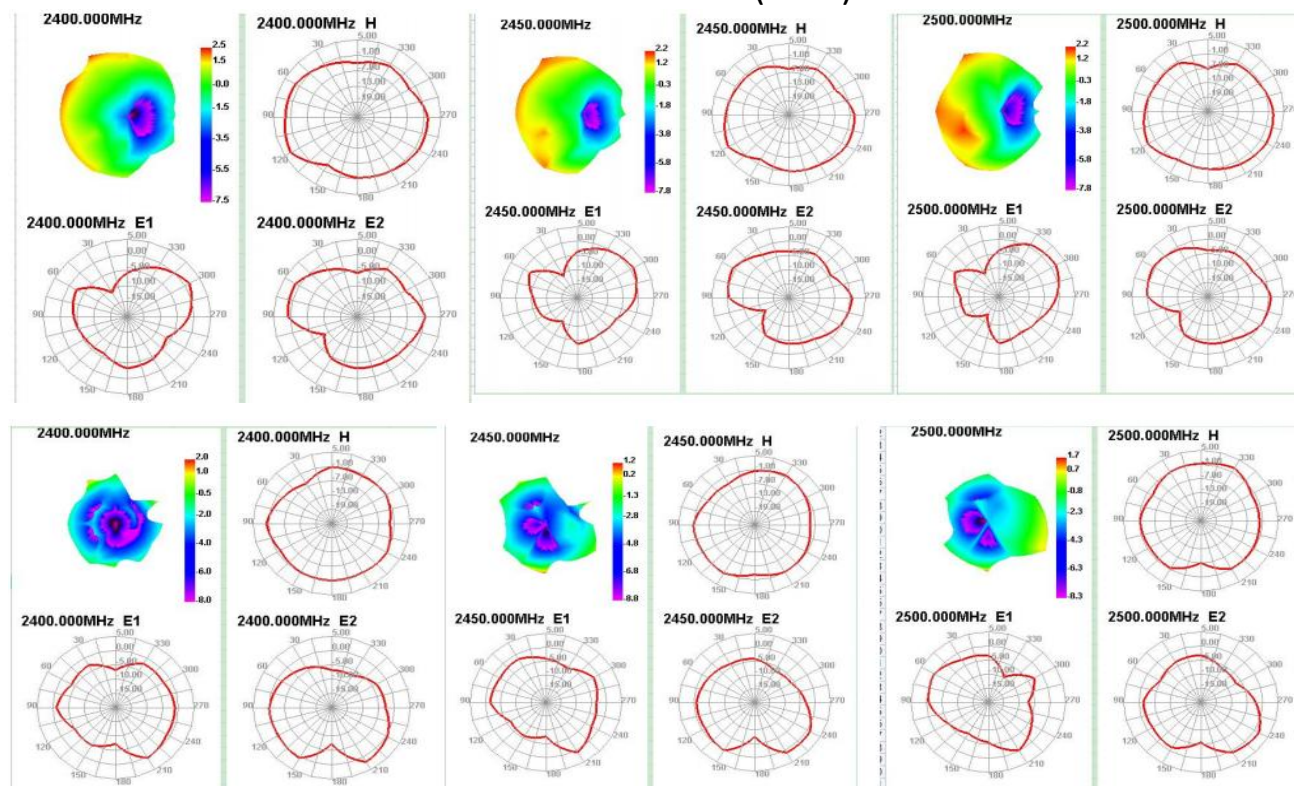
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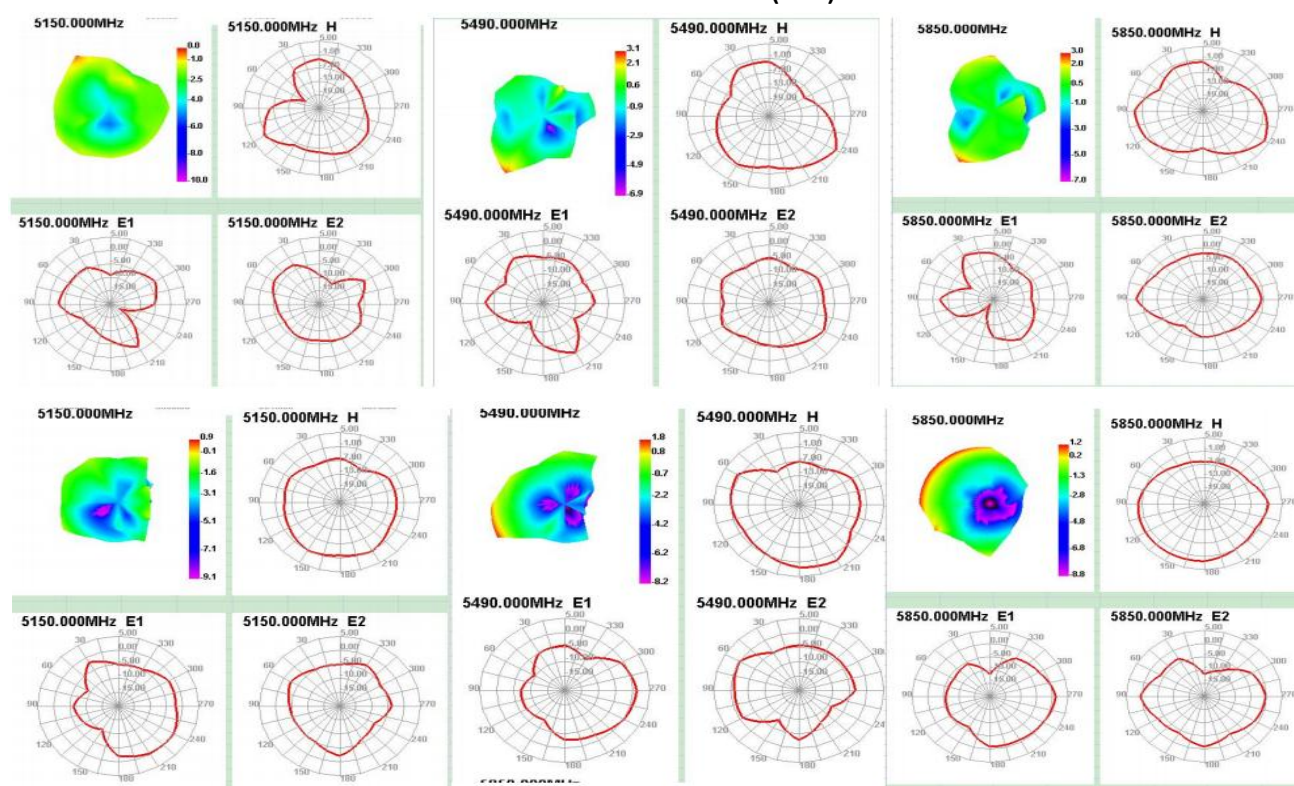
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ANTENNA Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Radiation Pattern(2.4G)



Radiation Pattern(5G)



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WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	12.56	CH1 11Mbps	-80.7
	2437	CH6 11Mbps	12.23	CH6 11Mbps	-80.59
	2467	CH11 11Mbps	12.49	CH11 11Mbps	-80.64
802.11g		TRP		TIS	
	2412	CH1 54Mbps	12.08	CH36 54Mbps	-68.79
	2437	CH6 54Mbps	12.37	CH60 54Mbps	-66.94
	2467	CH11 54Mbps	12.59	CH161 54Mbps	-65.39
802.11a		TRP		TIS	
	5180	CH36 6Mbps	10.67	H36 54Mbps	-69.35
	5300	CH60 6Mbps	10.81	CH60 54Mbps	-68.22
	5805	CH161 6Mbps	10.71	CH161 54Mbps	-69.65
802.11g/n		TRP		TIS	
	2412	CH1 MCS7	11.51	CH1 MCS7	-63.33
	2437	CH6 MCS7	11.55	CH6 MCS7	-62.95
	2467	CH11 MCS7	11.63	CH11 MCS7	-62.23

BT Test

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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Throughput Test(2.4G)

上行					下行				
图片	356	17.0-18.0 sec	10.2 MBytes	85.6 Mbits/sec	356	17.0-18.0 sec	9.52 MBytes	79.8 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	18.0-19.0 sec	9.59 MBytes	80.4 Mbits/sec	356	18.0-19.0 sec	8.87 MBytes	72.7 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	19.0-20.0 sec	11.1 MBytes	93.2 Mbits/sec	356	19.0-20.0 sec	10.7 MBytes	89.7 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	20.0-21.0 sec	10.8 MBytes	90.6 Mbits/sec	356	20.0-21.0 sec	11.3 MBytes	94.4 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	21.0-22.0 sec	9.59 MBytes	80.4 Mbits/sec	356	21.0-22.0 sec	11.5 MBytes	96.1 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	22.0-23.0 sec	9.87 MBytes	82.8 Mbits/sec	356	22.0-23.0 sec	10.9 MBytes	91.4 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	23.0-24.0 sec	8.86 MBytes	74.3 Mbits/sec	356	23.0-24.0 sec	8.39 MBytes	70.4 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	24.0-25.0 sec	8.06 MBytes	67.6 Mbits/sec	356	24.0-25.0 sec	10.5 MBytes	88.2 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	25.0-26.0 sec	9.02 MBytes	75.7 Mbits/sec	356	25.0-26.0 sec	9.54 MBytes	80.0 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	26.0-27.0 sec	8.64 MBytes	72.5 Mbits/sec	356	26.0-27.0 sec	11.0 MBytes	92.1 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	27.0-28.0 sec	7.87 MBytes	66.0 Mbits/sec	356	27.0-28.0 sec	11.1 MBytes	93.4 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	28.0-29.0 sec	9.70 MBytes	81.3 Mbits/sec	356	28.0-29.0 sec	10.8 MBytes	90.2 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	29.0-30.0 sec	7.83 MBytes	65.7 Mbits/sec	356	29.0-30.0 sec	12.1 MBytes	101 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	356	0.0-30.1 sec	278 MBytes	77.5 Mbits/sec	356	0.0-30.0 sec	311 MBytes	86.9 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	

Throughput Test(5G)

上行					下行				
图片	216	17.0-18.0 sec	23.9 MBytes	201 Mbits/sec	356	17.0-18.0 sec	40.3 MBytes	338 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	18.0-19.0 sec	30.9 MBytes	259 Mbits/sec	356	18.0-19.0 sec	39.6 MBytes	332 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	19.0-20.0 sec	23.3 MBytes	196 Mbits/sec	356	19.0-20.0 sec	40.8 MBytes	342 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	20.0-21.0 sec	15.4 MBytes	129 Mbits/sec	356	20.0-21.0 sec	40.9 MBytes	343 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	21.0-22.0 sec	29.4 MBytes	247 Mbits/sec	356	21.0-22.0 sec	36.2 MBytes	304 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	22.0-23.0 sec	30.1 MBytes	252 Mbits/sec	356	22.0-23.0 sec	16.7 MBytes	140 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	23.0-24.0 sec	17.0 MBytes	143 Mbits/sec	356	23.0-24.0 sec	19.1 MBytes	160 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	24.0-25.0 sec	25.2 MBytes	211 Mbits/sec	356	24.0-25.0 sec	34.5 MBytes	289 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	25.0-26.0 sec	29.0 MBytes	244 Mbits/sec	356	25.0-26.0 sec	38.3 MBytes	321 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	26.0-27.0 sec	28.3 MBytes	238 Mbits/sec	356	26.0-27.0 sec	38.5 MBytes	323 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	27.0-28.0 sec	25.5 MBytes	214 Mbits/sec	356	27.0-28.0 sec	40.1 MBytes	337 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	28.0-29.0 sec	30.8 MBytes	258 Mbits/sec	356	28.0-29.0 sec	40.7 MBytes	341 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	29.0-30.0 sec	30.6 MBytes	257 Mbits/sec	356	29.0-30.0 sec	40.2 MBytes	338 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	
	216	0.0-30.0 sec	747 MBytes	209 Mbits/sec	356	0.0-30.0 sec	1.08 GBytes	308 Mbits/sec	
	ID	Interval	Transfer	Bandwidth	ID	Interval	Transfer	Bandwidth	

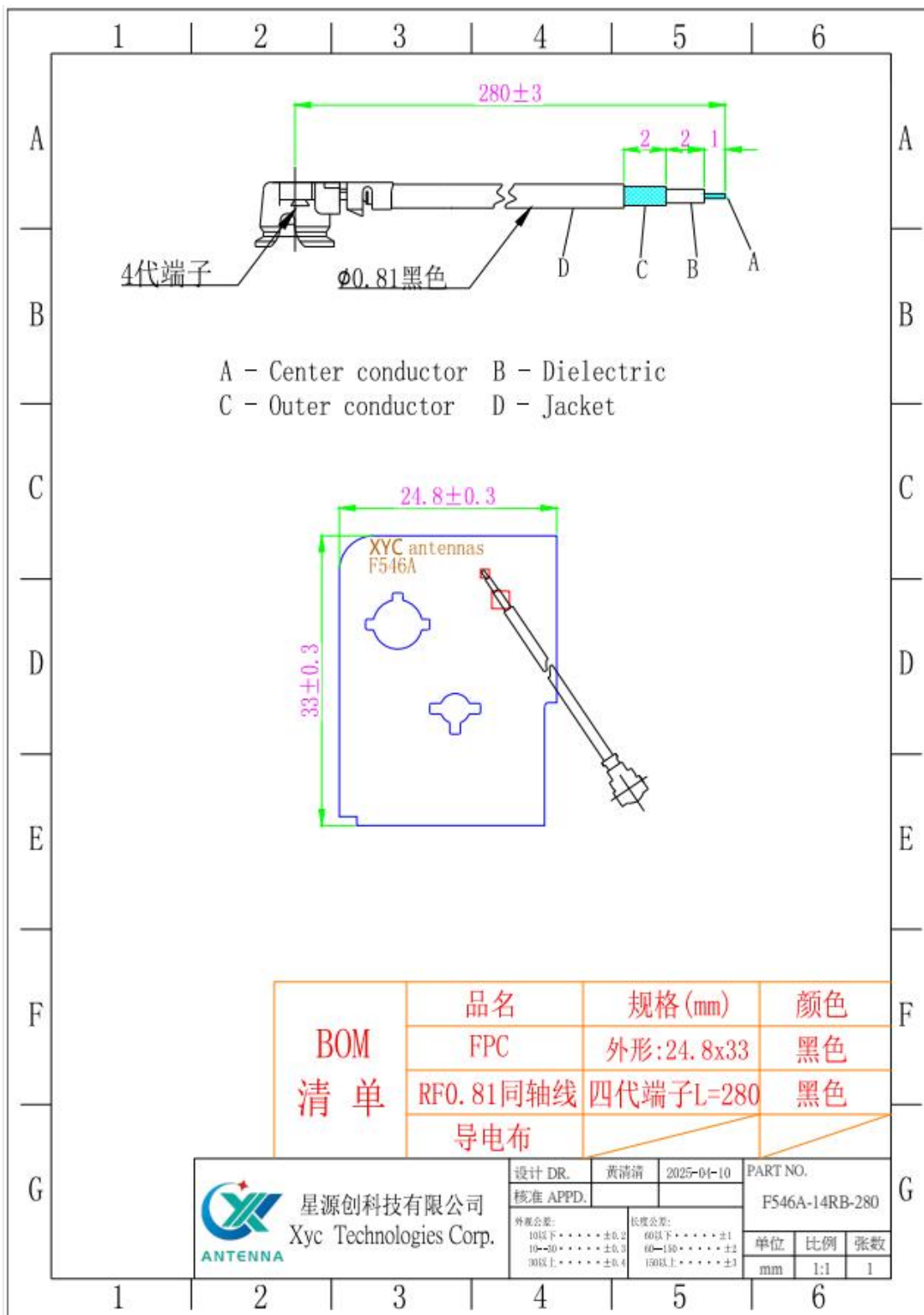
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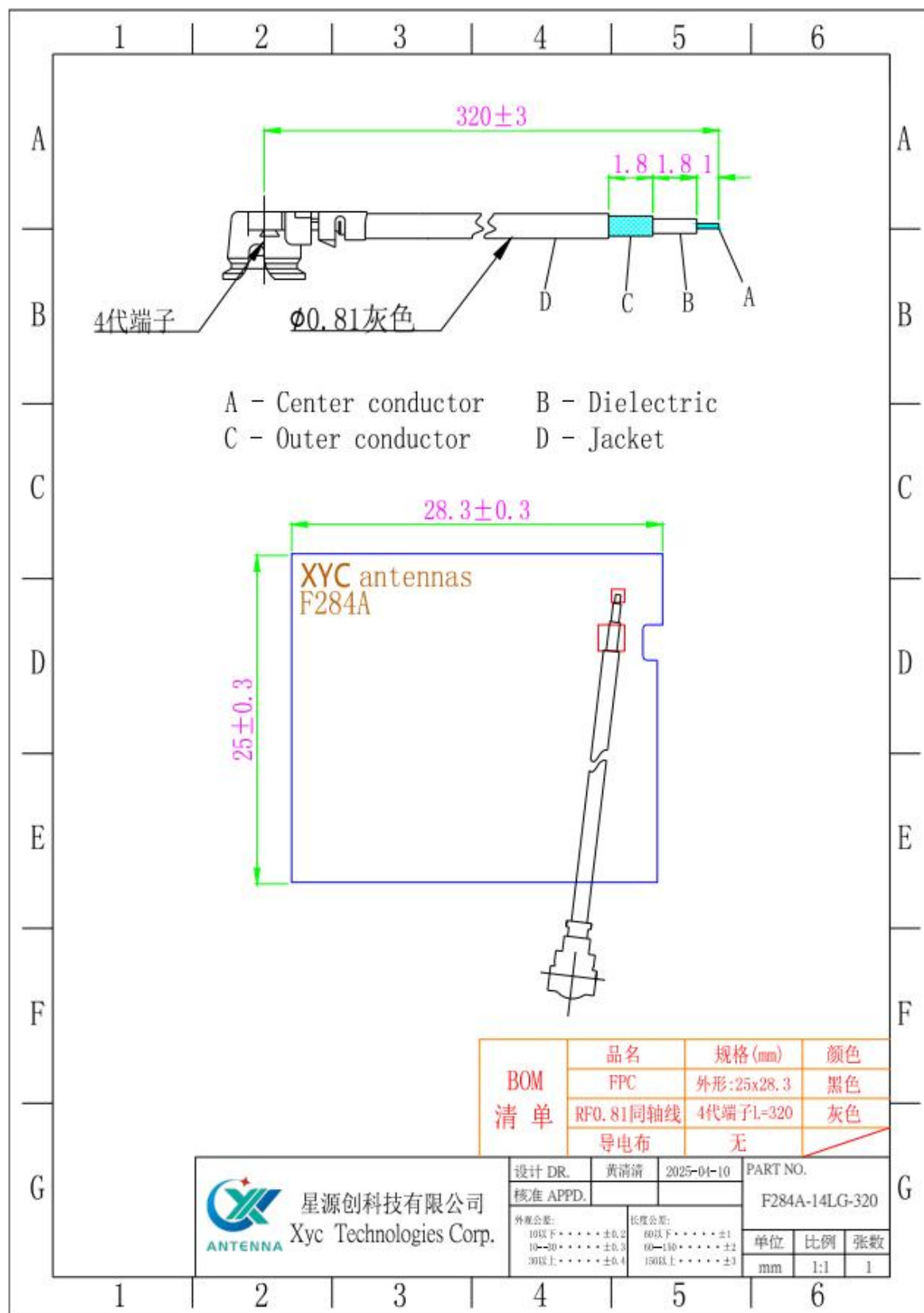
Antenna Assembly





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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

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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	NCS154		料号	F546A-14RB-280		出货日期	2025/04/10	
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	280±3	直尺	280	280			合格
	FPC外形	24.8±0.3	卡尺	24.8	24.8			合格
	FPC外形	33±0.3	卡尺	33	32.9			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

地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳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	NCS154		料号	F284A-14LG-320		出货日期	2025/04/10	
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	320±3	直尺	320	320			合格
	FPC外形	25±0.3	卡尺	25	25			合格
	FPC外形	28.3±0.3	卡尺	28.3	28.3			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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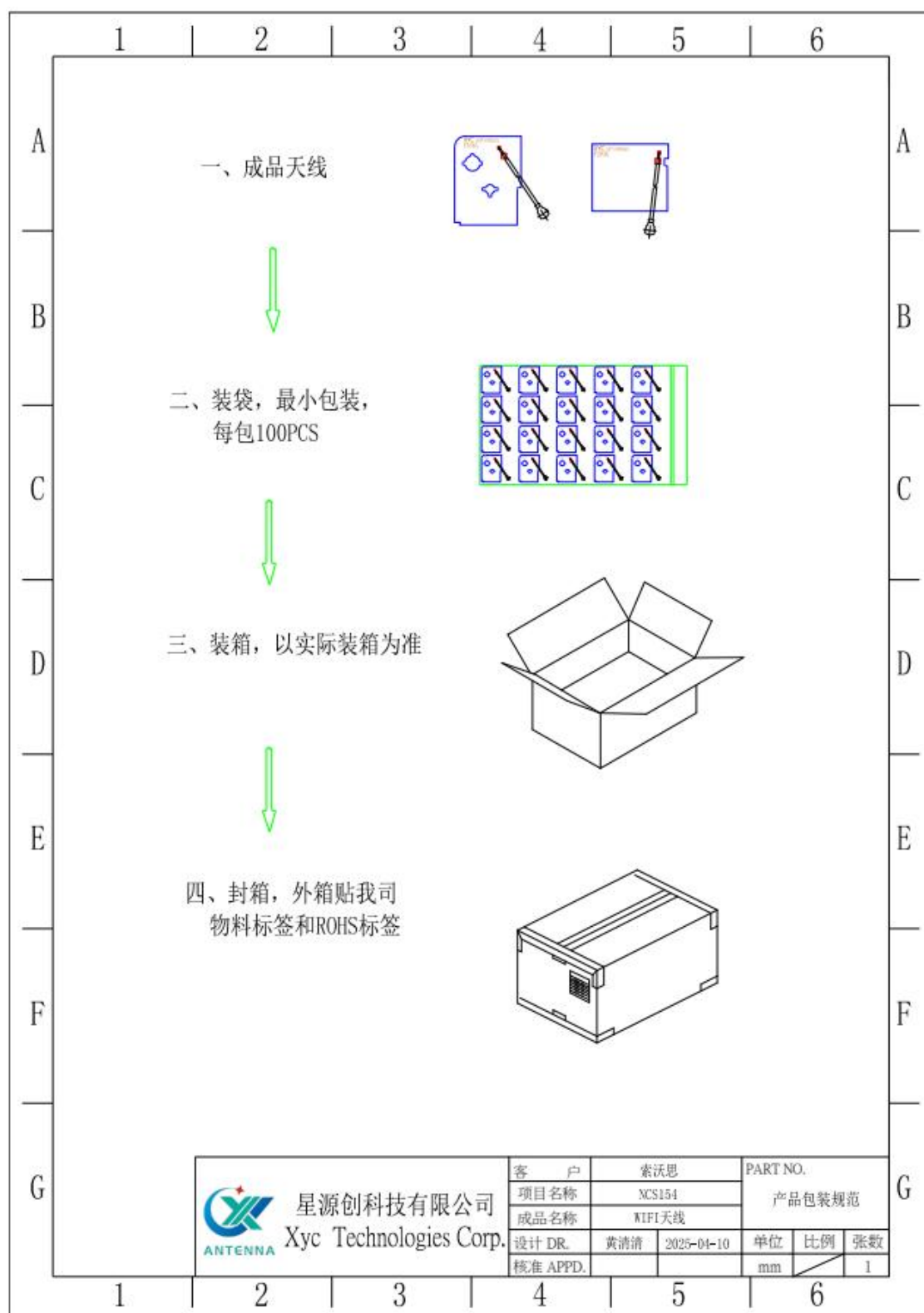
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Packing Specification



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