六联智能 SIXUNITED

承　　认　　书

SPECIFICATION FOR APPROVAL

Specifications Model/Description: Aux antenna XN50-156M-BY Black FPC fourth generation coaxial terminal line length L305MM F744-14LG-305 Xing Yuan Chuang (XYC)

Material code：

Manufacturer/Part number： F744-14LG-305

supplier： Shenzhen Xing Yuan Chuang technology Co., LTD

零件性质 ☑ 一般的 (STANDARD)　　☐ 特别的_____(指定的or SPECIAL)

料 件 承 认 项 目《执行标准（参考承认check list）》		
承认事项		技术确认栏/时间
外观是否符合整机要求	☐	ID 工程师：
确认电性能,pin定义，功耗是否符合整机要求	☐	硬件工程师：
确认物料是否符合整机EMC/SAFETY/RF要求	☐	EMC工程师：
参考《物料承认check list》机构部分确认	☐	结构工程师：
驱动等确认是否符合整机要求	☐	驱动工程师：
Thermal 确认是否符合整机要求	☐	散热工程师：
确认是否满足整机BIOS/EC要求	☐	SW工程师：
确认是否满足整机的系统兼容性/可靠性测试	☐	DQA系统工程师：
环保审查记录（适用ROHS指令）	☐	环保工程师：
确认供应商外观检验标准/关键工艺	☐	SQE工程师：
确认是否符合客户要求	☐	项目经理（PM）:
FAI 全尺寸报告、CPK 报告、包装方式（package）、单体可靠性报告等。	☐	CE 工程师:

样品附 ☑研发　☐品质　☐采购　☑供应商　☐客户　☑组装厂

IQC检验注意事项：

此实物承认样品只作为颜色、丝印、结构的核对检验使用；来料尺寸检验按承认书中图纸标注的尺寸核对检验；外观品质异常（如划伤、异色点、缩水、凹凸印、断差等）按六联品质提供的外观检验标准进行检验。

版本	变更内容描述	变更日期	修订人
A	初版发行	02.19	

拟制		审核	

保存期限：3年

深圳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	六联智能	日期 Data	2024/02/19
产品名称 Product	WiFi副天线	客户机型 Models	XN50-156M-BY
料号 P/N	F744-14LG-305	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC；RF0.81四代端子灰色同轴线；L=305mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
深圳市星源创科技有限公司 工程专用章	深圳英众世纪智能科技有限公司 合同专用章
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

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Specification

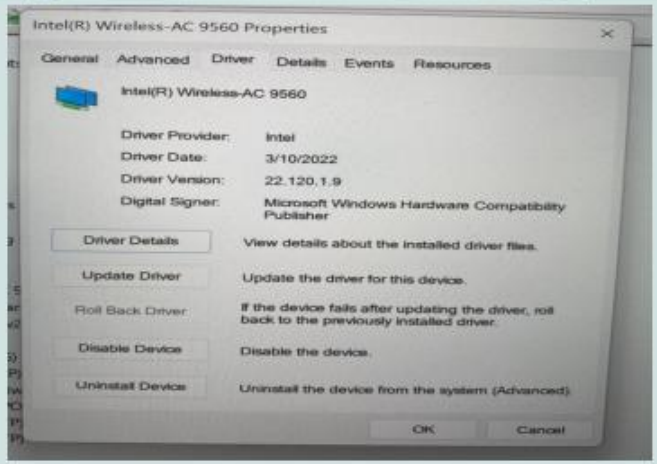
1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi; 6GWiFi
Antenna From	PIFA
Impedance	50Ω
Polarization	Linear
Peak Effi	22%@2.4G; 21%@5G; 45%@6G
Peak Gain	2.2dBi@2.4G; 0.9dBi@5G; 2.5dBi@6G

1.2 Physical Properties

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

WiFi Ant Test Information

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

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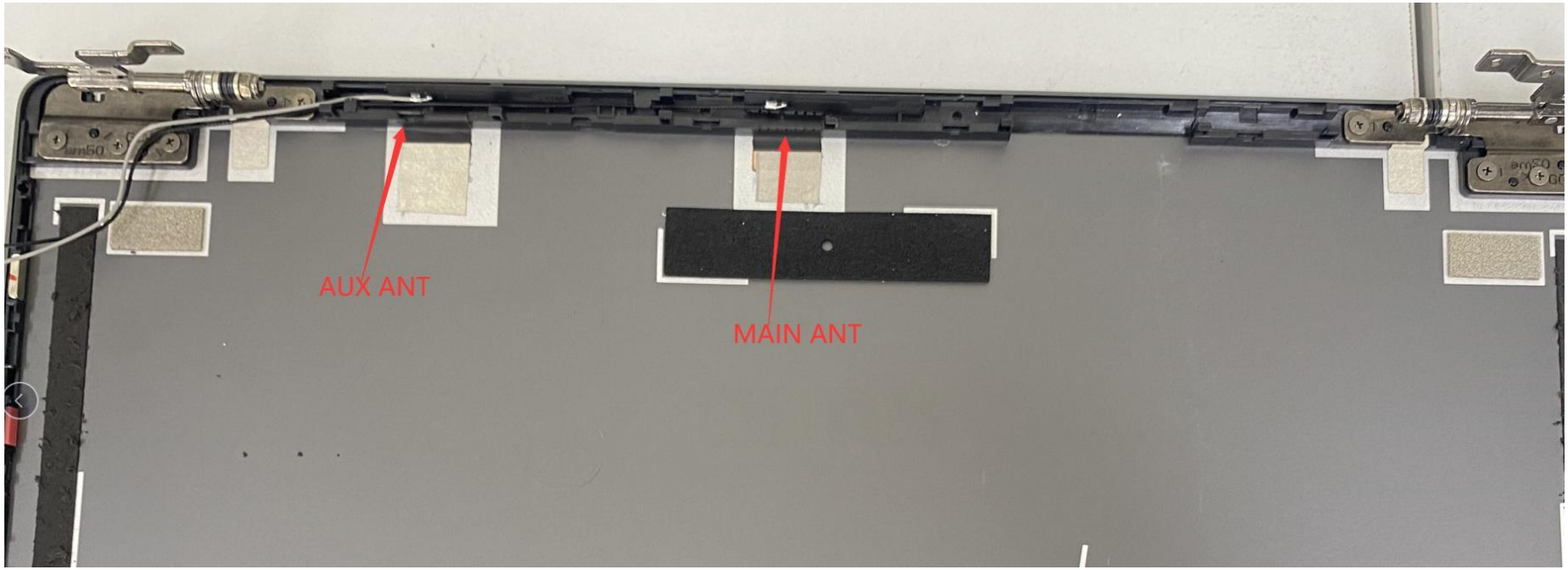
Antenna Placement



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Test Data

S11 Parameter-VSWR

Frequency (MHZ)	2400	2450	2483	5150
VSWR	2.29	2.1	1.32	1.62
Return Loss (DB)	-8.41	-9.19	-17.05	-12.41

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Efficiency Table（2.4G）

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	22.61	-6.46	2.02	-0.13	14.497	8.109	2.02	-24.6
2410	21.93	-6.59	2.21	0.06	14.123	7.803	2.21	-24.5
2420	22.06	-6.56	2.27	0.12	14.22	7.842	2.27	-22.63
2430	22.01	-6.57	2.15	0	14.097	7.913	2.15	-20.42
2440	22.24	-6.53	2.06	-0.09	14.14	8.105	2.06	-20.29
2450	21.83	-6.61	1.54	-0.61	13.963	7.866	1.54	-23.59
2460	20.74	-6.83	0.83	-1.32	13.11	7.628	0.83	-27.99
2470	20.14	-6.96	0.91	-1.24	12.444	7.698	0.91	-27.62
2480	19.41	-7.12	1.12	-1.03	11.907	7.505	1.12	-25.68
2490	18.2	-7.4	1.01	-1.14	11.139	7.058	1.01	-27.09
2500	16.04	-7.95	0.25	-1.9	9.751	6.294	0.25	-25.27

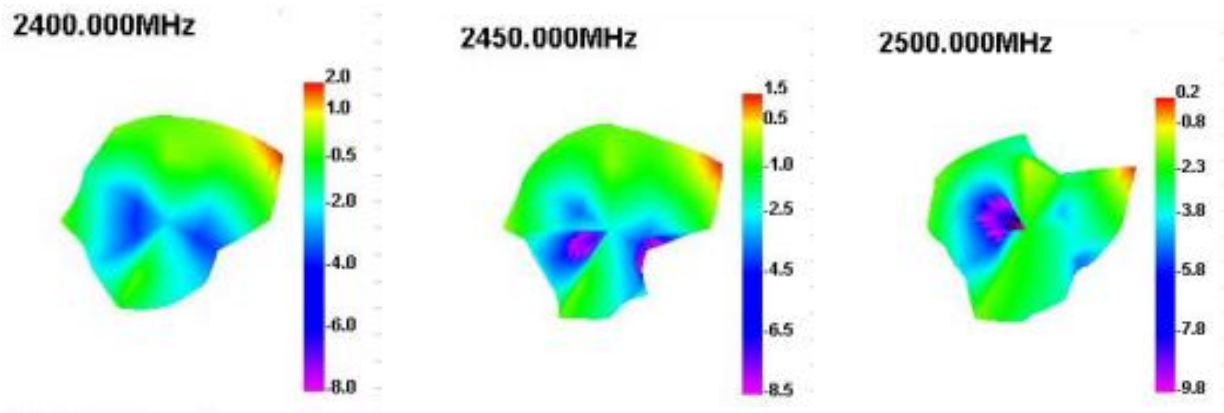
Efficiency Table（5G）

Passive Test For WIFI5G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)
5150	18.74	-7.27	-0.74	-2.89	9.6	9.142	-0.74	-20.85
5170	17.9	-7.47	-0.91	-3.06	8.976	8.927	-0.91	-20.81
5190	17.71	-7.52	-1.39	-3.54	8.725	8.988	-1.39	-22.74
5210	17.71	-7.52	-0.44	-2.59	8.833	8.875	-0.44	-23.99
5230	16.26	-7.89	-0.31	-2.46	8.281	7.98	-0.31	-29.08
5250	16.49	-7.83	-0.13	-2.28	8.448	8.044	-0.13	-32.87
5270	15.4	-8.12	-0.68	-2.83	7.999	7.4	-0.68	-32.44
5290	15.64	-8.06	-0.72	-2.87	8.297	7.347	-0.72	-24.44
5310	14.06	-8.52	-1.19	-3.34	7.558	6.503	-1.19	-24.75
5330	14.39	-8.42	-1.41	-3.56	7.751	6.635	-1.41	-29.55
5350	15.67	-8.05	-0.81	-2.96	8.38	7.288	-0.81	-24.29
5370	15.44	-8.11	-0.65	-2.8	8.156	7.286	-0.65	-31.08
5390	14.59	-8.36	-0.73	-2.88	7.568	7.021	-0.73	-27.97
5410	17.47	-7.58	-0.01	-2.16	8.961	8.507	-0.01	-23.81
5430	16.89	-7.72	-0.21	-2.36	8.844	8.045	-0.21	-22.1
5450	18.57	-7.31	0.52	-1.63	9.984	8.586	0.52	-21.91
5470	17.59	-7.55	0.53	-1.62	9.597	7.996	0.53	-23.51
5490	18.22	-7.39	0.78	-1.37	9.942	8.28	0.78	-23.48
5510	18.35	-7.36	0.75	-1.4	9.905	8.444	0.75	-25.27
5530	18.82	-7.25	0.9	-1.25	9.986	8.837	0.9	-28.92
5550	18.83	-7.25	0.75	-1.4	9.794	9.035	0.75	-27.42
5570	17.6	-7.54	-0.03	-2.18	9.151	8.452	-0.03	-28.24
5590	18.01	-7.45	-0.6	-2.75	9.458	8.548	-0.6	-26.72
5610	17.34	-7.61	-1.68	-3.83	9.179	8.158	-1.68	-30.98
5630	17.62	-7.54	-1.85	-4	9.515	8.107	-1.85	-28.65
5650	19.14	-7.18	-0.86	-3.01	10.481	8.664	-0.86	-29.6
5670	19.46	-7.11	-0.25	-2.4	11.01	8.446	-0.25	-28.71
5690	21.31	-6.71	0.67	-1.48	12.368	8.946	0.67	-22.64
5710	19.6	-7.08	0.62	-1.53	11.577	8.021	0.62	-21.69
5730	21.6	-6.66	0.74	-1.41	12.604	8.991	0.74	-21.34
5750	18.93	-7.23	-0.3	-2.45	10.905	8.029	-0.3	-22.18
5770	19.44	-7.11	-0.16	-2.31	11.127	8.314	-0.16	-20.04
5790	16.59	-7.8	-0.08	-2.23	9.412	7.178	-0.08	-20.66
5810	17.08	-7.68	0.47	-1.68	9.616	7.461	0.47	-22.91
5830	16.18	-7.91	0.52	-1.63	9.063	7.121	0.52	-26.8
5850	17.28	-7.62	0.77	-1.38	9.749	7.535	0.77	-29.18

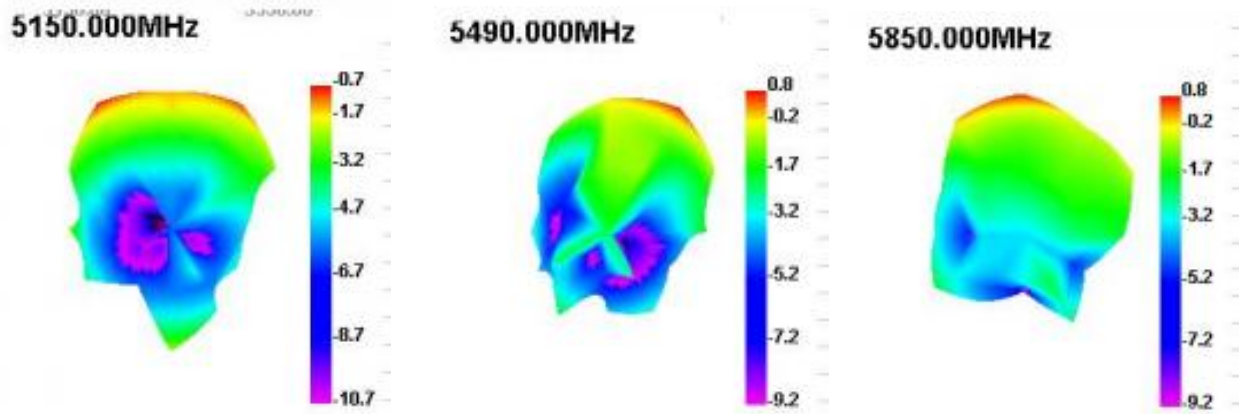
Efficiency Table（6G）

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)
5925	40.61	-3.83	1.96	-1.4	25.164	15.446
5975	40.33	-3.5	1.87	-0.92	24.459	15.871
6025	40.39	-3.48	1.91	-0.59	24.198	16.192
6075	39	-2.9	1.7	0.14	23.454	15.546
6125	39.76	-3.1	2.11	-0.37	24.141	15.619
6175	38.48	-2.52	2.07	0.6	23.365	15.115
6225	39.87	-2.6	2.29	0.75	24.186	15.684
6275	41.51	-2.37	2.31	0.93	25.528	15.982
6325	55.13	-2.59	2.06	0.94	24.489	30.641
6375	39.45	-2.37	1.76	1.26	24.367	15.083
6425	39.26	-2.1	1.98	1.52	25.836	13.424
6475	40.63	-2.32	1.92	1.25	25.193	15.437
6525	38.16	-2.92	1.53	0.69	23.796	14.364
6575	45.44	-2.32	2.58	1.48	28.126	17.314
6625	42.53	-3.01	2.15	0.66	25.842	16.688
6675	42.72	-2.76	1.96	0.65	25.897	16.823
6725	41.85	-3.44	1.64	-0.24	25.879	15.971
6775	40.13	-3.39	1.07	-0.38	25.303	14.827
6825	40.69	-3.53	1.36	-0.92	25.555	15.135
6875	42.02	-3.34	1.76	-1.2	26.237	15.783
6925	44.09	-3.4	1.86	-1.34	27.632	16.458
6975	42.87	-3.49	1.72	-1.35	26.848	16.022
7025	43.55	-3.26	1.92	-1.08	26.892	16.658
7075	45.08	-3.47	2.03	-1.35	27.432	17.648
7125	45.66	-3.31	2.19	-1.08	27.952	17.708

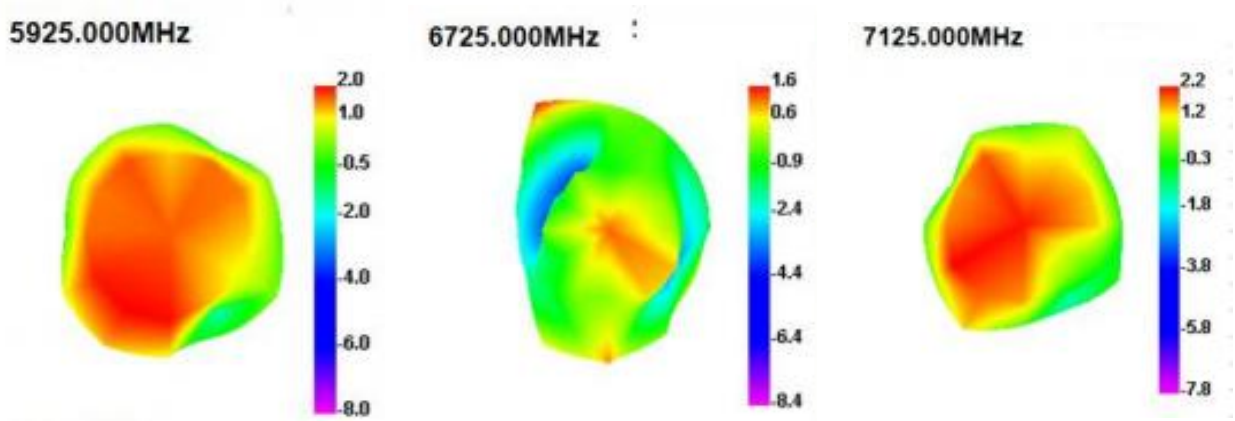
Radiation Pattern(2.4G)



Radiation Pattern(5G)



Radiation Pattern(6G)



WiFi Active Test Data

	Frequency	TRP		TIS	
802.11b	2412	CH1 11Mbps	9.85	CH1 11Mbps	-79.36
	2437	CH6 11Mbps	8.63	CH6 11Mbps	-79.58
	2467	CH11 11Mbps	8.38	CH11 11Mbps	-79.69
802.11a		TRP		TIS	
	5180	CH36 6Mbps	7.36	CH36 54Mbps	-68.36
	5300	CH60 6Mbps	7.1	CH60 54Mbps	-67.14
	5805	CH161 6Mbps	9.06	CH161 54Mbps	-69.36

BT Test

测试环境：开放空间(通道）
测试工具：蓝牙音响
测试距离：10/m
结果：播放音乐流畅，无杂音。

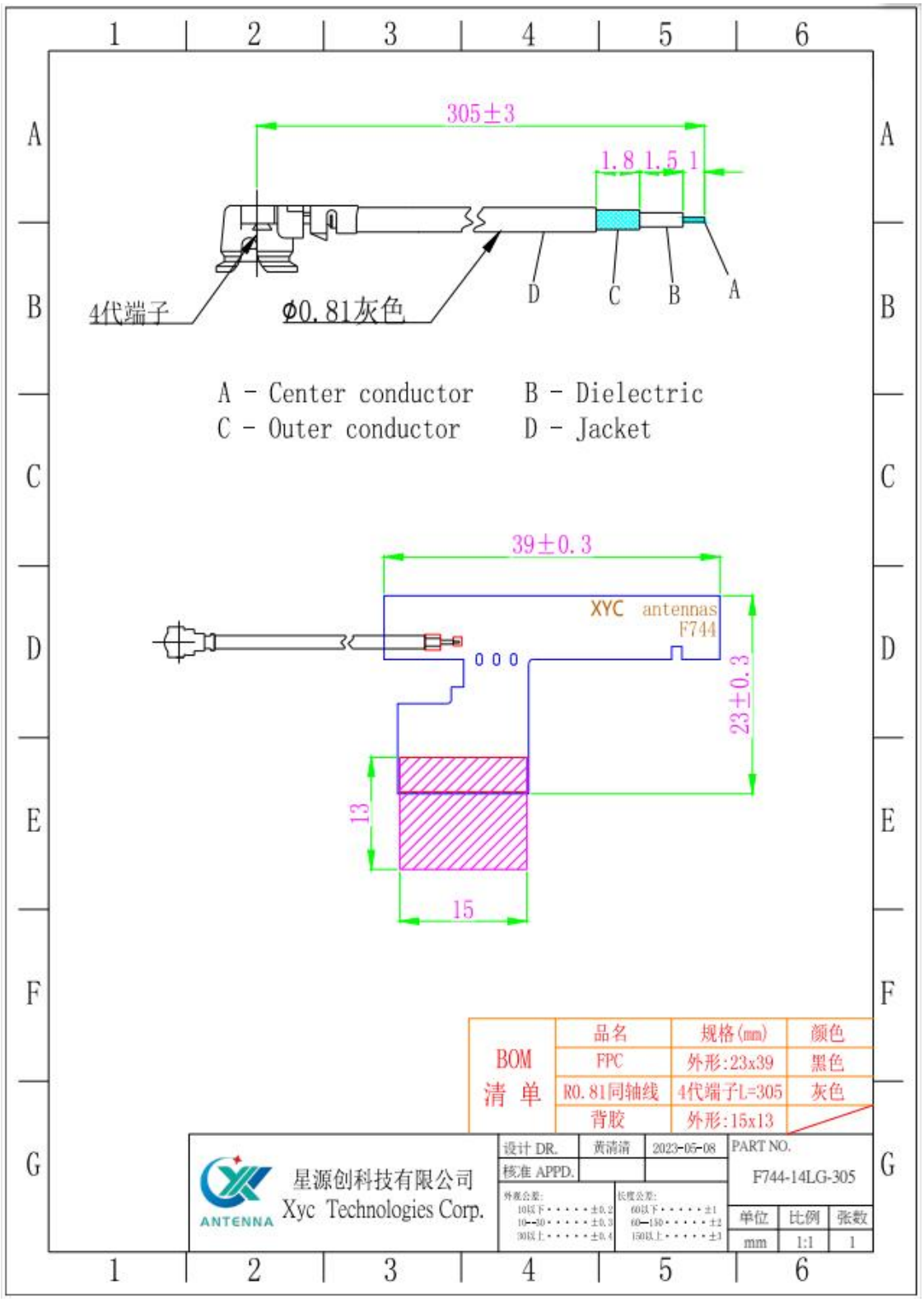
Throughput Test(2.4G)

上行	127M	下行	210M
图片	[ID] Interval Transfer Bandwidth [324] 17.0-18.0 sec 15.2 MBytes 127 Mbits/sec [ID] Interval Transfer Bandwidth [324] 18.0-19.0 sec 16.0 MBytes 135 Mbits/sec [ID] Interval Transfer Bandwidth [324] 19.0-20.0 sec 14.5 MBytes 122 Mbits/sec [ID] Interval Transfer Bandwidth [324] 20.0-21.0 sec 15.9 MBytes 133 Mbits/sec [ID] Interval Transfer Bandwidth [324] 21.0-22.0 sec 14.4 MBytes 121 Mbits/sec [ID] Interval Transfer Bandwidth [324] 22.0-23.0 sec 15.4 MBytes 129 Mbits/sec [ID] Interval Transfer Bandwidth [324] 23.0-24.0 sec 14.8 MBytes 124 Mbits/sec [ID] Interval Transfer Bandwidth [324] 24.0-25.0 sec 15.9 MBytes 133 Mbits/sec [ID] Interval Transfer Bandwidth [324] 25.0-26.0 sec 17.0 MBytes 143 Mbits/sec [ID] Interval Transfer Bandwidth [324] 26.0-27.0 sec 14.6 MBytes 122 Mbits/sec [ID] Interval Transfer Bandwidth [324] 27.0-28.0 sec 16.1 MBytes 135 Mbits/sec [ID] Interval Transfer Bandwidth [324] 28.0-29.0 sec 15.5 MBytes 130 Mbits/sec [ID] Interval Transfer Bandwidth [324] 29.0-30.0 sec 15.9 MBytes 133 Mbits/sec [ID] Interval Transfer Bandwidth [324] 0.0-30.0 sec 454 MBytes 127 Mbits/sec	图片	[324] 18.0-19.0 sec 25.4 MBytes 213 Mbits/sec [ID] Interval Transfer Bandwidth [324] 19.0-20.0 sec 27.0 MBytes 227 Mbits/sec [ID] Interval Transfer Bandwidth [324] 20.0-21.0 sec 24.6 MBytes 207 Mbits/sec [ID] Interval Transfer Bandwidth [324] 21.0-22.0 sec 26.6 MBytes 223 Mbits/sec [ID] Interval Transfer Bandwidth [324] 22.0-23.0 sec 25.1 MBytes 211 Mbits/sec [ID] Interval Transfer Bandwidth [324] 23.0-24.0 sec 25.0 MBytes 209 Mbits/sec [ID] Interval Transfer Bandwidth [324] 24.0-25.0 sec 24.9 MBytes 209 Mbits/sec [ID] Interval Transfer Bandwidth [324] 25.0-26.0 sec 27.2 MBytes 228 Mbits/sec [ID] Interval Transfer Bandwidth [324] 26.0-27.0 sec 26.7 MBytes 224 Mbits/sec [ID] Interval Transfer Bandwidth [324] 27.0-28.0 sec 26.3 MBytes 220 Mbits/sec [ID] Interval Transfer Bandwidth [324] 28.0-29.0 sec 27.8 MBytes 233 Mbits/sec [ID] Interval Transfer Bandwidth [324] 29.0-30.0 sec 27.5 MBytes 231 Mbits/sec [ID] Interval Transfer Bandwidth [324] 0.0-30.0 sec 752 MBytes 210 Mbits/sec

Throughput Test(5G)

上行	577M	下行	573M
图片	[324] 18.0-19.0 sec 68.3 MBytes 573 Mbits/sec [ID] Interval Transfer Bandwidth [324] 19.0-20.0 sec 64.8 MBytes 544 Mbits/sec [ID] Interval Transfer Bandwidth [324] 20.0-21.0 sec 69.8 MBytes 586 Mbits/sec [ID] Interval Transfer Bandwidth [324] 21.0-22.0 sec 68.4 MBytes 574 Mbits/sec [ID] Interval Transfer Bandwidth [324] 22.0-23.0 sec 67.9 MBytes 570 Mbits/sec [ID] Interval Transfer Bandwidth [324] 23.0-24.0 sec 71.6 MBytes 600 Mbits/sec [ID] Interval Transfer Bandwidth [324] 24.0-25.0 sec 68.4 MBytes 574 Mbits/sec [ID] Interval Transfer Bandwidth [324] 25.0-26.0 sec 69.5 MBytes 583 Mbits/sec [ID] Interval Transfer Bandwidth [324] 26.0-27.0 sec 70.5 MBytes 592 Mbits/sec [ID] Interval Transfer Bandwidth [324] 27.0-28.0 sec 70.7 MBytes 593 Mbits/sec [ID] Interval Transfer Bandwidth [324] 28.0-29.0 sec 69.7 MBytes 585 Mbits/sec [ID] Interval Transfer Bandwidth [324] 29.0-30.0 sec 71.0 MBytes 596 Mbits/sec [ID] Interval Transfer Bandwidth [324] 0.0-30.0 sec 2.02 GBytes 577 Mbits/sec	图片	[ID] Interval Transfer Bandwidth [328] 18.0-19.0 sec 69.5 MBytes 583 Mbits/sec [ID] Interval Transfer Bandwidth [328] 19.0-20.0 sec 66.5 MBytes 558 Mbits/sec [ID] Interval Transfer Bandwidth [328] 20.0-21.0 sec 67.6 MBytes 567 Mbits/sec [ID] Interval Transfer Bandwidth [328] 21.0-22.0 sec 68.4 MBytes 573 Mbits/sec [ID] Interval Transfer Bandwidth [328] 22.0-23.0 sec 67.5 MBytes 566 Mbits/sec [ID] Interval Transfer Bandwidth [328] 23.0-24.0 sec 68.7 MBytes 576 Mbits/sec [ID] Interval Transfer Bandwidth [328] 24.0-25.0 sec 65.6 MBytes 551 Mbits/sec [ID] Interval Transfer Bandwidth [328] 25.0-26.0 sec 68.2 MBytes 572 Mbits/sec [ID] Interval Transfer Bandwidth [328] 26.0-27.0 sec 69.8 MBytes 585 Mbits/sec [ID] Interval Transfer Bandwidth [328] 27.0-28.0 sec 68.3 MBytes 573 Mbits/sec [ID] Interval Transfer Bandwidth [328] 28.0-29.0 sec 68.1 MBytes 571 Mbits/sec [ID] Interval Transfer Bandwidth [328] 29.0-30.0 sec 68.3 MBytes 573 Mbits/sec [ID] Interval Transfer Bandwidth [328] 0.0-30.0 sec 2.00 GBytes 573 Mbits/sec

Antenna Assembly



地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506
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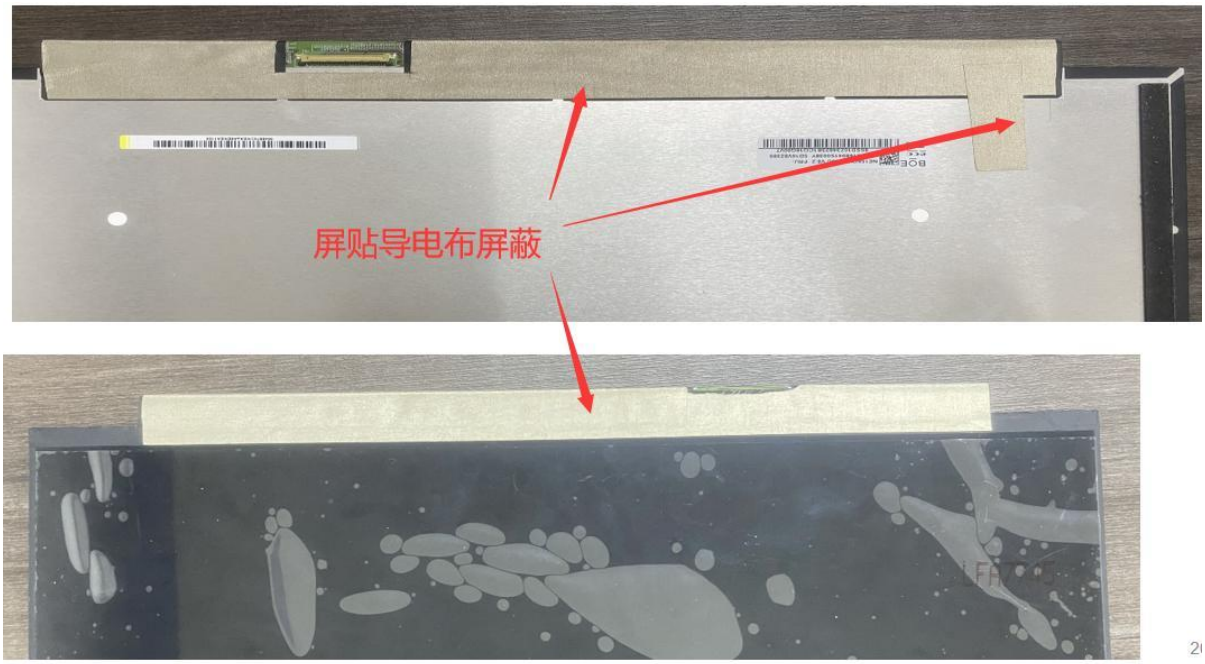
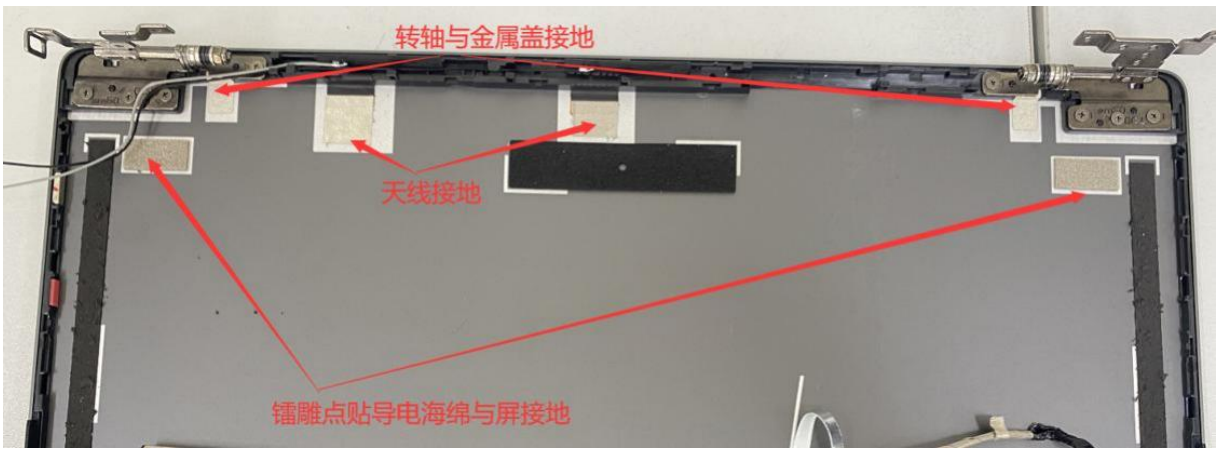
Notes





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

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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深圳星源创科技有限公司
ANTENNA Shen Zhen Xing Yuan Chuang Technology Co., Ltd

List Of Raw Materials

环保零件检测报告统计清单

本公司兹保证本《环保零件检测报告》内所记载及附之所有资料皆属实，如有任何不实（包括但不限于料号与原始检测报告对照错误），致深圳英众世纪智能科技有限公司受有任何损害，愿对深圳英众世纪智能科技有限公司负完全之损害赔偿责任。

物料名称： WIFI+BT副天线　　供应商料号： F744-14LG-305

英众料号：　　出具厂商：

拟　　制：　　法人代表：

NO.	材料名称 Name	材料供应商 Material supplier	均质材料 Mfr Part Number	均质材料有害物质含量Hazardous Substances Concentration in Homogeneous Material(PPM)										卤素 HF		测试机构 Test Lab, organization	报告编号 Test Report Number	测试日期 Test Date (YY-MM-DD)	第三方检测报告插入 Insert a third party test report
				Cd	Pb	Hg	Cr6+	PBBs	PBDEs	DBP	BBP	DEHP	DIBP	氯 Cl	溴 Br				
				<100	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<900	<900				
1	WIFI/BT副天线	星源创（XYC）	FPC 基材	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	通标标准技术服务有限公司广州分公司	CANEC2227194601 CANEC2227194602	2022-12-22	CAN22-271946-01_EC_F.PDF CAN22-271946-02_EC_F.PDF
			背胶9471	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			文字油墨	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			防焊油墨	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
			线材	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				

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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	六联智能	品名规格	WIFI副天线	出货数量	5	抽样数量	2
机型	XN50-156M-BY		料号	F744-14LG-305		出货日期	2023/12/28
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：1.5 Min：0.4						

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	305±3	直尺	305	305			合格
	FPC外形	23±0.3	卡尺	23	23			合格
	FPC外形	39±0.3	卡尺	38.9	38.9			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

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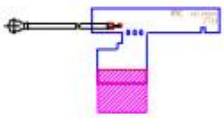
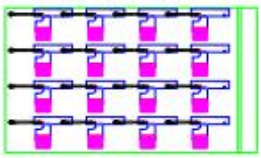
Packing Specification

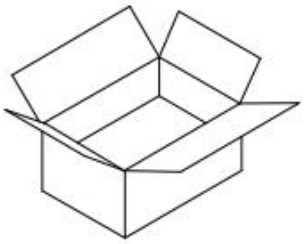
一、成品天线



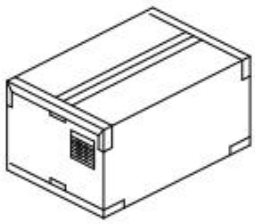
二、装袋，最小包装，
每包100PCS



三、装箱，以实际装箱为准



四、封箱，外箱贴我司
物料标签和ROHS标签



星源创科技有限公司 Xyc Technologies Corp.	客户	英众		PART NO.	
	项目名称	XN50-156M-BY		产品包装规范	
	成品名称	WIFI天线			
	设计 DR.	黄清清	2023-06-08	单位	比例	张数
	核准 APPD.			mm		1

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