



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	沐霖智能机器人	日期 Data	2024/11/25
产品名称 Product	WiFi天线	客户机型 Models	泳池水面清洁机器人
料号 P/N	F1212-21MB-080	客户料号 Customer P/N	
规格描述 Specifications	绿色PCB带背胶，厚度0.6mm；MI113一代端子黑色同轴线，L80MM		

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



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	Extraposition
Impedance	50 Ω
Polarization	Linear
Peak Effi	43%@2.4G; 48%@5G
Peak Gain	0.24dBi@2.4G; 1.6dBi@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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Antenna Picture



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Test Data

S11 Parameter-VSWR



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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)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	37.4	-4.27	-0.61	-2.76	24.381	13.019	-0.61	-13.11	3.66	0	45.78	46.01
2410	37.41	-4.27	-0.43	-2.58	24.496	12.919	-0.43	-13.31	3.84	0	46.01	46.29
2420	42.05	-3.76	0.24	-1.91	27.594	14.458	0.24	-14.07	4.01	0	45.73	46
2430	41.5	-3.82	0.15	-2	27.107	14.389	0.15	-14.61	3.97	0	46.01	46.36
2440	40.01	-3.98	-0.16	-2.31	25.849	14.158	-0.16	-13.85	3.81	30	46.12	46.48
2450	41.34	-3.84	-0.16	-2.31	26.369	14.968	-0.16	-12.81	3.68	30	46.12	46.54
2460	44.96	-3.47	0.23	-1.92	28.247	16.71	0.23	-11.83	3.7	30	46.14	46.52
2470	42.53	-3.71	-0.06	-2.21	26.236	16.297	-0.06	-11.52	3.65	30	46.4	46.8
2480	40.37	-3.94	-0.31	-2.46	24.546	15.825	-0.31	-11.96	3.63	30	46.26	46.64
2490	40.09	-3.97	-0.37	-2.52	24.091	15.999	-0.37	-12.2	3.6	30	46.51	46.91
2500	43.6	-3.6	0.12	-2.03	26.004	17.601	0.12	-12.12	3.72	30	46.47	46.86

Passive Test For WIFI5G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	24.85	-6.05	-2.14	-4.29	15.641	9.207	-2.14	-22.95	3.91	0	49.82	49.4
5170	24.81	-6.05	-2.17	-4.32	15.483	9.325	-2.17	-29.81	3.88	0	50.13	49.77
5190	25.29	-5.97	-2.14	-4.29	15.807	9.481	-2.14	-23.85	3.83	0	50.42	49.95
5210	29.61	-5.29	-1.51	-3.66	18.348	11.263	-1.51	-23.13	3.77	0	50.88	50.49
5230	24.94	-6.03	-2.35	-4.5	15.234	9.708	-2.35	-20.98	3.68	0	50.42	50.08
5250	36.25	-4.41	-0.68	-2.83	21.661	14.593	-0.68	-20.18	3.72	0	51.02	50.72
5270	29.12	-5.36	-1.49	-3.64	17.331	11.785	-1.49	-19.88	3.87	0	50.85	50.6
5290	39.51	-4.03	-0.14	-2.29	23.306	16.201	-0.14	-18.84	3.89	0	51.34	51.12
5310	30.46	-5.16	-1.24	-3.39	17.693	12.771	-1.24	-19.98	3.92	0	50.44	50.36
5330	33.14	-4.8	-0.91	-3.06	18.966	14.175	-0.91	-20.51	3.88	0	51.08	51.01
5350	32.37	-4.9	-1.19	-3.34	18.509	13.856	-1.19	-20.86	3.71	0	51.02	51.01
5370	30.05	-5.22	-1.31	-3.46	17.121	12.928	-1.31	-21.84	3.91	0	50.91	50.95
5390	29.77	-5.26	-1.08	-3.23	16.538	13.229	-1.08	-21.53	4.18	0	50.46	50.43
5410	35.45	-4.5	-0.31	-2.46	19.365	16.09	-0.31	-21.57	4.2	0	51.18	51.09
5430	40.19	-3.96	-0.11	-2.26	21.73	18.465	-0.11	-20.73	3.85	0	50.69	50.7
5450	36.35	-4.4	-0.42	-2.57	19.359	16.987	-0.42	-24	3.98	0	50.71	50.85
5470	38.72	-4.12	0.08	-2.07	20.262	18.457	0.08	-24.8	4.2	0	50.93	50.83
5490	35.42	-4.51	-0.38	-2.53	18.236	17.186	-0.38	-24.39	4.12	0	50.92	50.79
5510	42.62	-3.7	0.7	-1.45	21.835	20.782	0.7	-22.4	4.41	0	51.18	51.16
5530	39.47	-4.04	0.87	-1.28	20.124	19.351	0.87	-22.77	4.91	0	51.44	51.3
5550	42.4	-3.73	1.4	-0.75	21.485	20.918	1.4	-23.27	5.12	0	51.89	51.76
5570	43.49	-3.62	1.35	-0.8	21.881	21.612	1.35	-23.73	4.96	0	51.42	51.33
5590	40.92	-3.88	1.05	-1.1	20.638	20.284	1.05	-28.71	4.93	0	51.71	51.76
5610	43.66	-3.6	1.51	-0.64	22.156	21.503	1.51	-27.62	5.1	0	51.17	51.22
5630	30.07	-5.22	0.13	-2.02	15.46	14.613	0.13	-27.21	5.35	0	51.78	51.77
5650	44.91	-3.48	1.51	-0.64	23.365	21.548	1.51	-21.08	4.99	0	51.47	51.55
5670	33.62	-4.73	0.06	-2.09	17.653	15.971	0.06	-19.05	4.79	0	52.12	52.28
5690	48.95	-3.1	1.65	-0.5	26.006	22.949	1.65	-16.46	4.75	0	52.12	52.25
5710	36.82	-4.34	0.61	-1.54	19.764	17.053	0.61	-18.46	4.95	0	51.95	52.05
5730	40.86	-3.89	1.06	-1.09	22.138	18.726	1.06	-16.64	4.95	0	51.59	51.69
5750	39.97	-3.98	0.65	-1.5	21.742	18.231	0.65	-17.3	4.63	0	51.12	51.15
5770	40.76	-3.9	0.66	-1.49	22.235	18.523	0.66	-18.23	4.56	0	51.02	51.06
5790	39.59	-4.02	0.71	-1.44	21.624	17.967	0.71	-18.34	4.73	0	51.08	51.16
5810	36.59	-4.37	0.59	-1.56	20.024	16.564	0.59	-18.15	4.95	0	51.36	51.43
5830	38.02	-4.2	0.61	-1.54	20.867	17.15	0.61	-17.23	4.81	0	51.65	51.66
5850	37.42	-4.27	0.33	-1.82	20.656	16.766	0.33	-17.74	4.6	0	51.88	52.05

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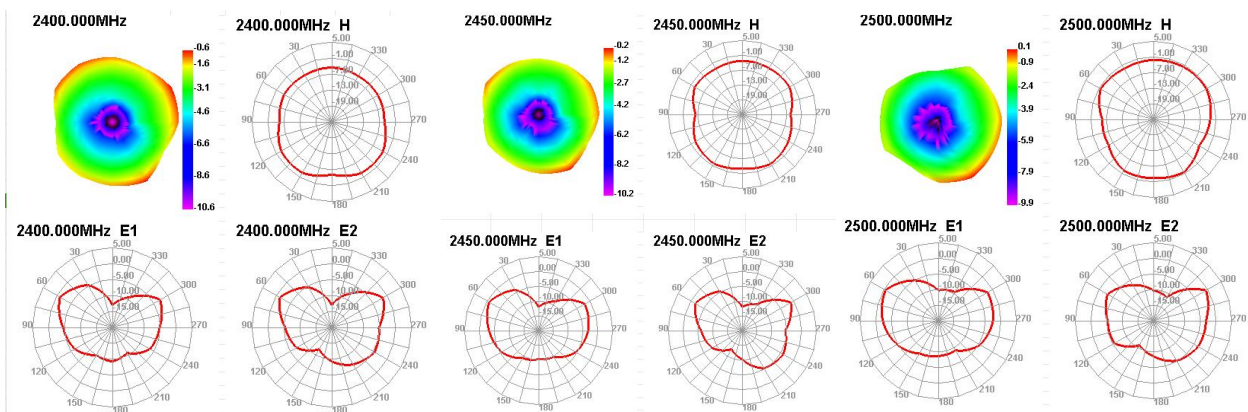
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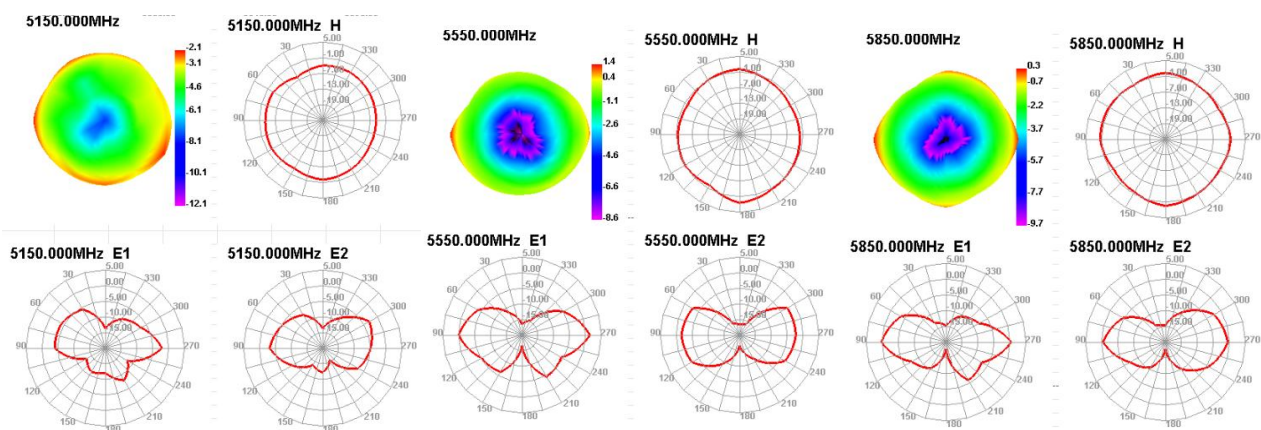
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Radiation Pattern (2.4G)



Radiation Pattern (5G)



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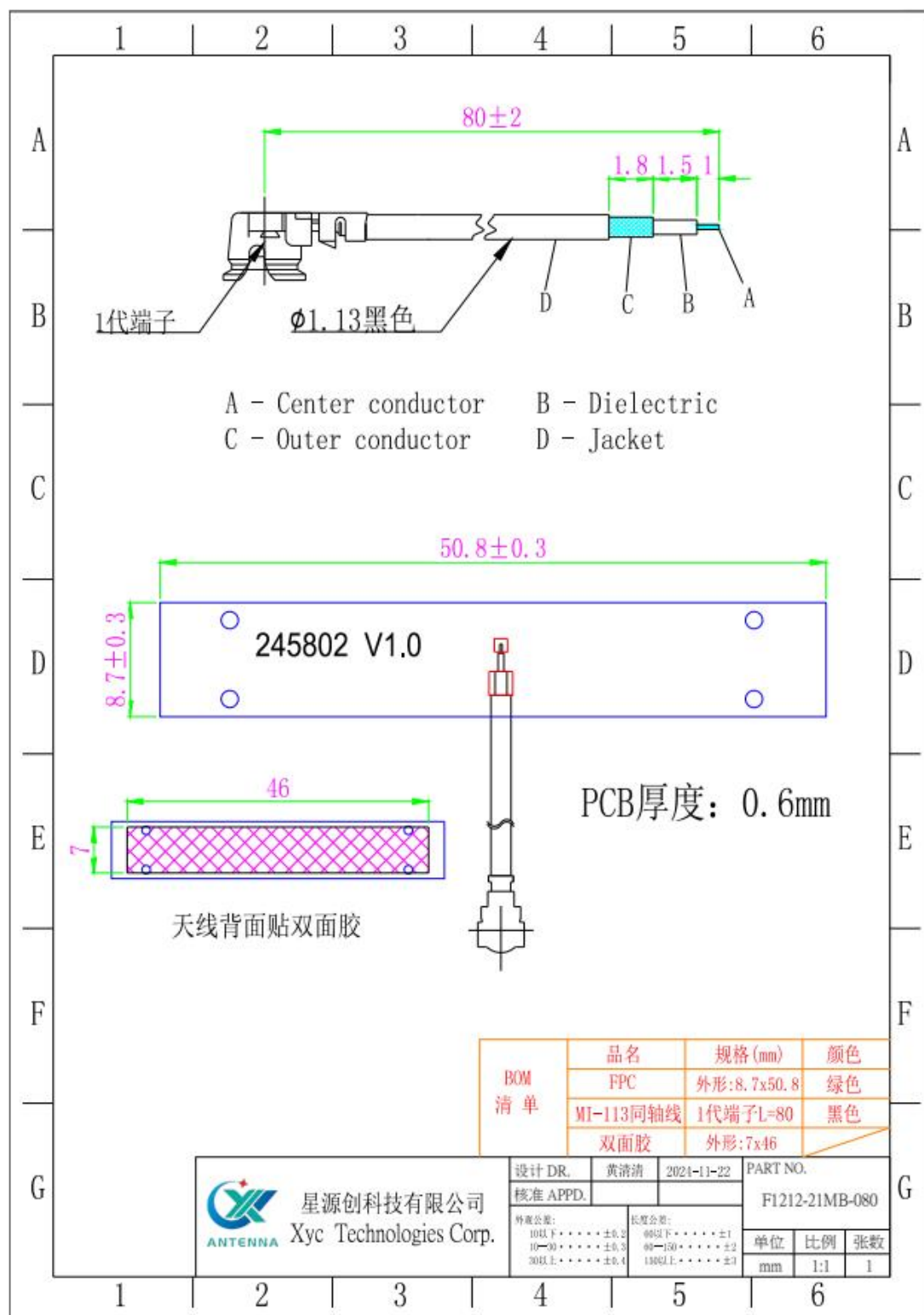
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Antenna Assembly



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