



深圳星源创科技有限公司

Manufacturer: Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Specifications

客户名称 Customer	Shenzhen Xiaoyi Technology Co., LTD	日期 Data	2023/03/09
产品名称 Product	Bluetooth&WiFi Antenna	客户机型 Models	NC15UA1
料号 P/N	F705A-25LB-310	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; Main: MI-113四代半端子黑色同轴线, L=310mm; Aux: MI-113四代半端子灰色同轴线, L=265mm		

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	Bluetooth&2.4GWiFi:2400-2500MHz 5GWiFi:5150-5850MHz
Antenna From	PIFA Antenna
Impedance	50 Ω
Polarization	Linear
Peak Effi	60%@2.4G; 45%@5G
Peak Gain	3.31dBi Max@2.4G; 2.84dBi Max@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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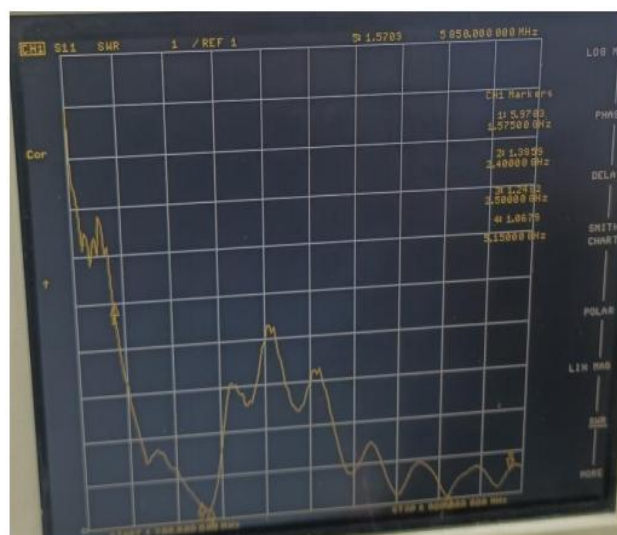
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400		2500	5150		5850
VSWR	1.33		1.07	1.52		1.13
Return Loss (DB)	-17.13		-24.79	-13.41		-26.12



Frequency (MHZ)	2400		2500	5150		5850
VSWR	1.38		1.24	1.06		1.57
Return Loss (DB)	-16.04		-19.19	-20.61		-15.86

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Efficiency Table (Bluetooth&WIFI Antenna)

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	54.07	-2.67	1.71	-0.44	31.292	22.776
2410	54.23	-2.66	1.62	-0.53	31.398	22.828
2420	52.59	-2.79	1.39	-0.76	30.42	22.168
2430	51.94	-2.84	1.37	-0.78	30.062	21.88
2440	53.42	-2.72	1.64	-0.51	30.918	22.499
2450	55.87	-2.53	2.05	-0.1	32.319	23.55
2460	56.97	-2.44	2.39	0.24	32.9	24.068
2470	56.66	-2.47	2.67	0.52	32.724	23.931
2480	58.97	-2.29	3.07	0.92	34.051	24.92
2490	60.31	-2.2	3.31	1.16	34.892	25.419
2500	59.92	-2.22	3.31	1.16	34.62	25.304

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Efficiency Table (5GWIFI Antenna)

Passive Test For WIFI5.8						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	40.61	-3.91	1.96	-0.19	25.164	15.441
5170	40.33	-3.94	1.87	-0.28	24.459	15.869
5190	40.39	-3.94	1.91	-0.24	24.198	16.194
5210	39	-4.09	1.7	-0.45	23.454	15.545
5230	39.76	-4.01	2.11	-0.04	24.141	15.618
5250	38.48	-4.15	2.07	-0.08	23.365	15.112
5270	39.87	-3.99	2.29	0.14	24.186	15.679
5290	41.51	-3.82	2.31	0.16	25.528	15.985
5310	39.45	-4.04	2.06	-0.09	24.489	14.959
5330	39.26	-4.06	1.76	-0.39	24.367	14.895
5350	41.84	-3.78	1.98	-0.17	25.836	16.004
5370	40.63	-3.91	1.92	-0.23	25.193	15.44
5390	38.16	-4.18	1.53	-0.62	23.796	14.36
5410	45.44	-3.43	2.58	0.43	28.126	17.314
5430	42.53	-3.71	2.15	0	25.842	16.687
5450	42.72	-3.69	1.96	-0.19	25.897	16.826
5470	41.85	-3.78	1.64	-0.51	25.879	15.975
5490	40.13	-3.97	1.07	-1.08	25.303	14.824
5510	40.69	-3.91	1.36	-0.79	25.555	15.132
5530	42.02	-3.77	1.76	-0.39	26.237	15.782
5550	44.09	-3.56	1.86	-0.29	27.632	16.462
5570	42.87	-3.68	1.72	-0.43	26.848	16.023
5590	43.55	-3.61	1.92	-0.23	26.892	16.662
5610	45.08	-3.46	2.03	-0.12	27.432	17.645
5630	45.66	-3.4	2.19	0.04	27.952	17.708
5650	44.99	-3.47	2.51	0.36	27.94	17.053
5670	44.69	-3.5	2.84	0.69	27.918	16.77
5690	40.1	-3.97	2.15	0	24.842	15.257
5710	43.06	-3.66	2.05	-0.1	26.525	16.537
5730	39.65	-4.02	1.8	-0.35	24.504	15.141
5750	40.89	-3.88	2.14	-0.01	25.237	15.651
5770	40.02	-3.98	1.9	-0.25	24.316	15.703
5790	41.16	-3.86	1.47	-0.68	24.653	16.503
5810	42.08	-3.76	1.93	-0.22	25.102	16.977
5830	45.68	-3.4	2.53	0.38	27.23	18.451
5850	44.4	-3.53	2.32	0.17	26.37	18.035

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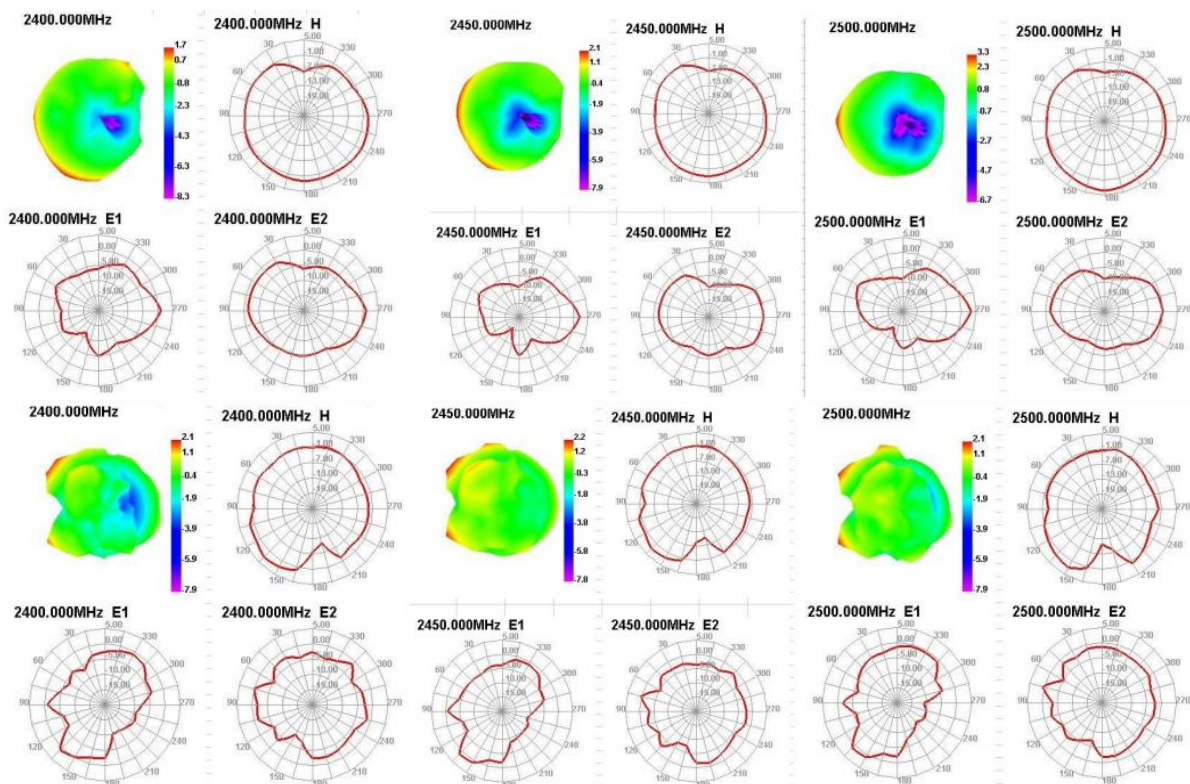
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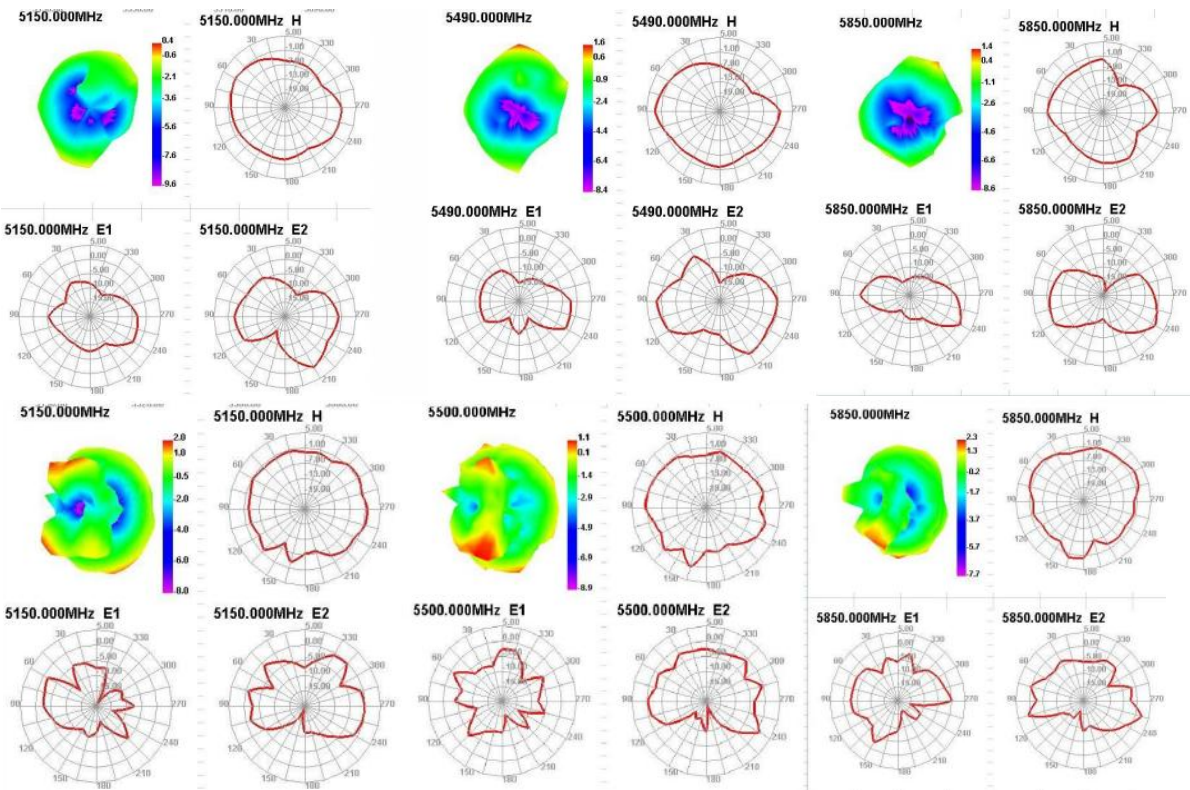
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Radiation Pattern(Bluetooth&WIFI Antenna)



Radiation Pattern(5GWIFI Antenna)



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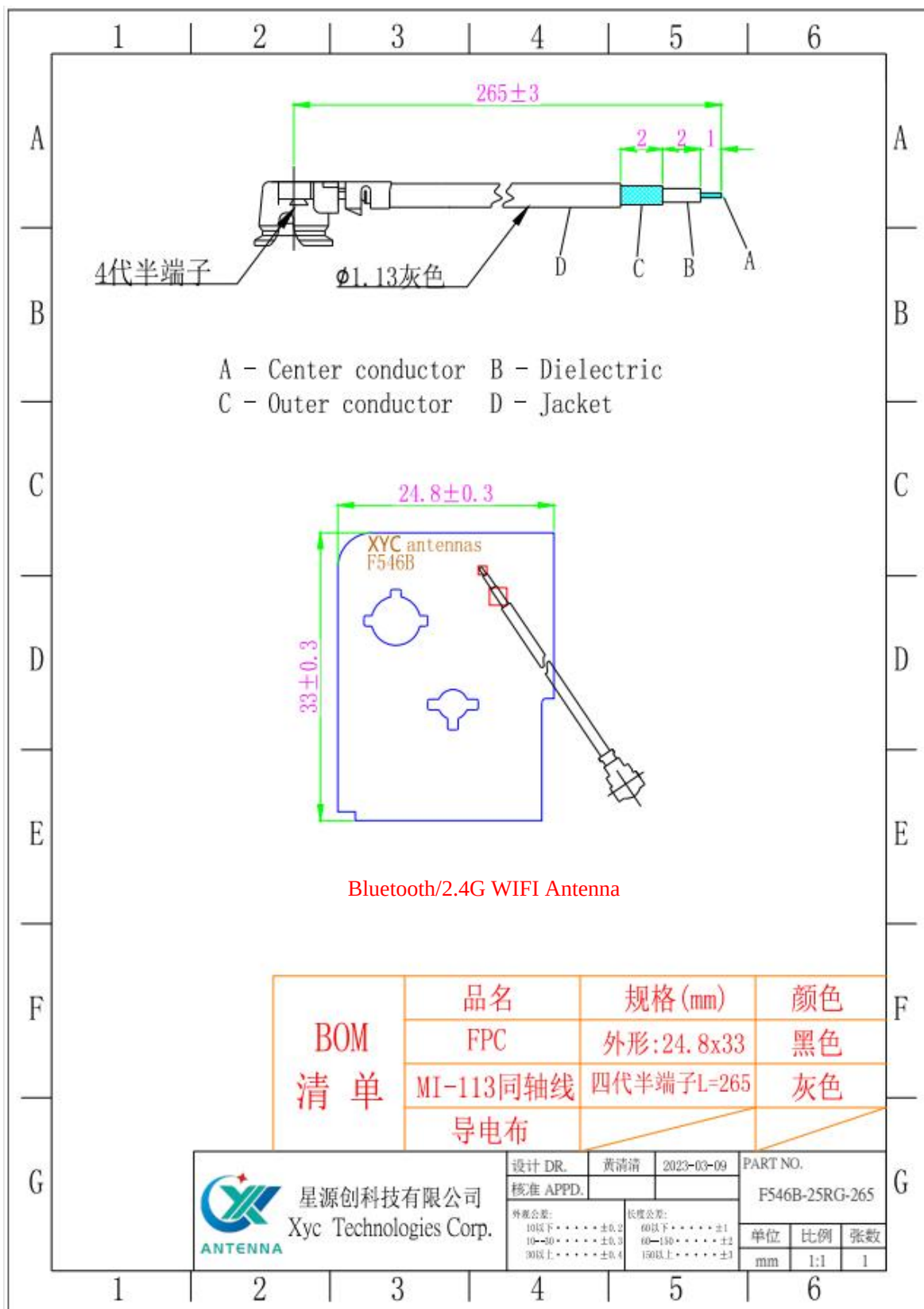
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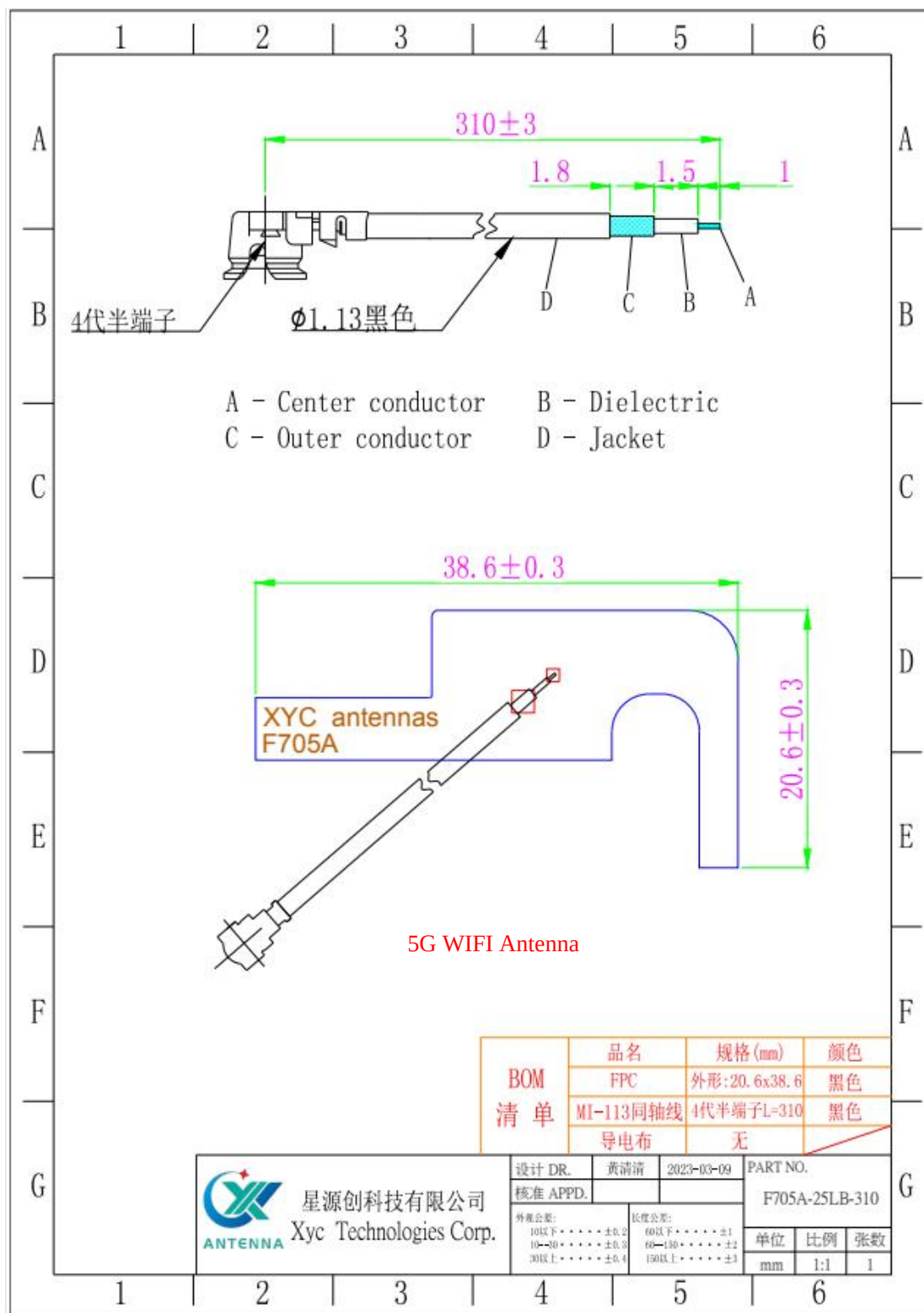
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Antenna Assembly



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