



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	美迪飞	日期 Data	2024/0124
产品名称 Product	WIFI/BT天线	客户机型 Models	M8
料号 P/N	T148L-13RB-183	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81三代端子黑色同轴线,长度L=183mm		

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	2.4G WiFi/BT 5G WiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	65%@2.4G; 1.1%@5G
Peak Gain	2.7dBi@2.4G; 0.9dBi@5G

1.2 Physical Properties

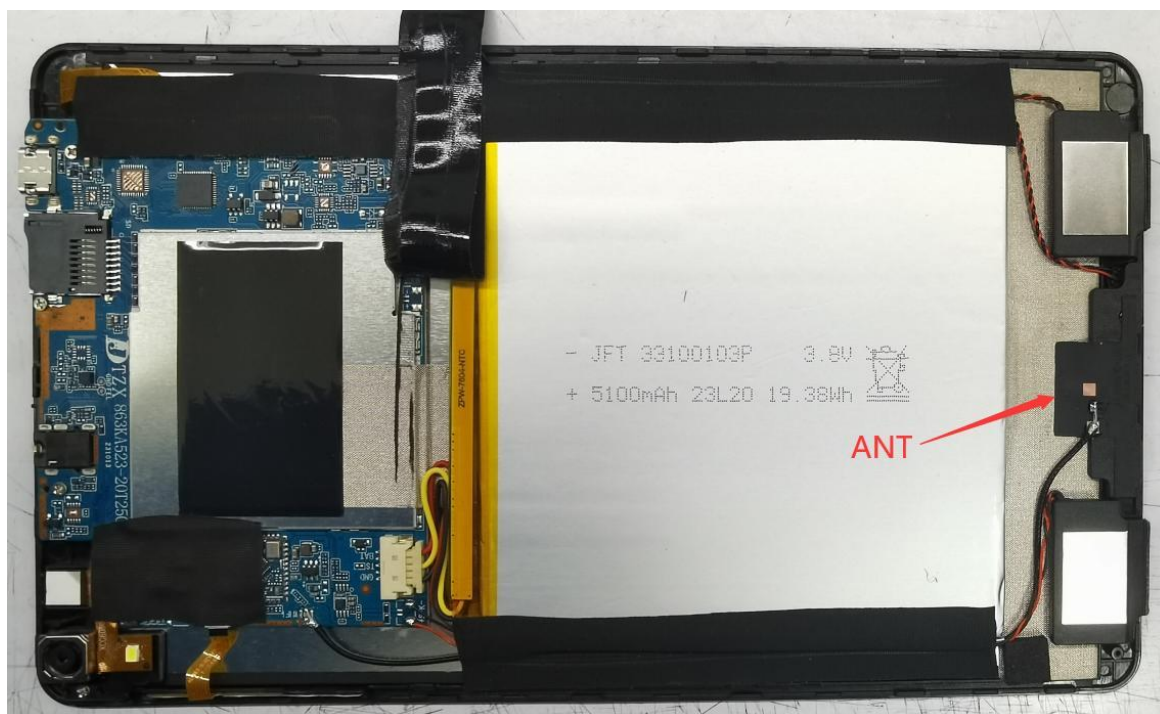
Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

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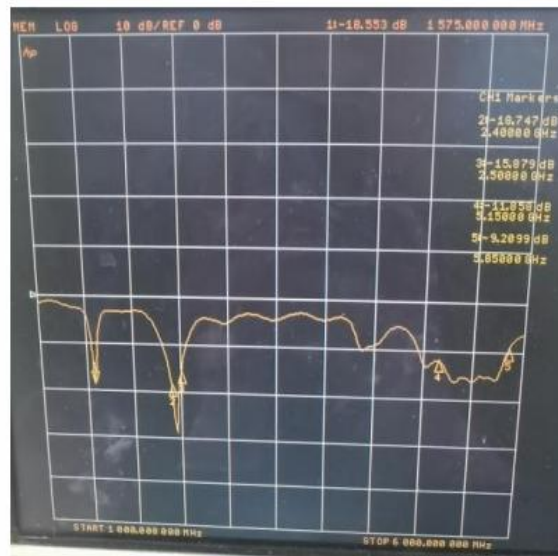
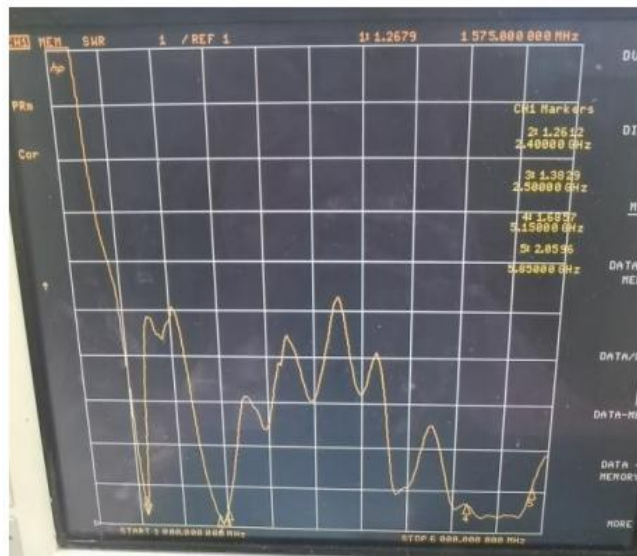
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Antenna Placement



Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.26	1.38	1.68	2.05
Return Loss (DB)	-18.74	-15.87	-11.05	-9.28

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	12.24	CH1 11Mbps	-80.38
	2437	CH6 11Mbps	12.39	CH6 11Mbps	-81.13
	2467	CH11 11Mbps	12.16	CH11 11Mbps	-81.41
802.11a		TRP		TIS	
	5180	CH36 6Mbps	10.22	CH36 54Mbps	-70.34
	5300	CH60 6Mbps	10.27	CH60 54Mbps	-70.46
	5805	CH161 6Mbps	10.32	CH161 54Mbps	-70.22

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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)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	58.99	-2.29	1.15	-1	36.222	22.764	1.15	-16.69	3.44	90	45.78	46.01
2410	56.78	-2.46	1.06	-1.09	35.175	21.607	1.06	-16.12	3.52	150	46.01	46.29
2420	58.11	-2.36	1.17	-0.98	36.443	21.666	1.17	-15.3	3.53	120	45.73	46
2430	59.22	-2.28	1.16	-0.99	37.38	21.841	1.16	-14.57	3.44	120	46.01	46.36
2440	61.9	-2.08	1.18	-0.97	39.06	22.836	1.18	-13.9	3.26	120	46.12	46.48
2450	62.48	-2.04	1.06	-1.09	39.41	23.069	1.06	-13.72	3.11	120	46.12	46.54
2460	59.92	-2.22	0.98	-1.17	37.905	22.016	0.98	-14.25	3.2	120	46.14	46.52
2470	59.87	-2.23	1.01	-1.14	38.047	21.822	1.01	-14.61	3.23	120	46.4	46.8
2480	62.91	-2.01	1.08	-1.07	39.772	23.134	1.08	-14.81	3.09	120	46.26	46.64
2490	65.64	-1.83	1.01	-1.14	40.911	24.727	1.01	-14.4	2.84	120	46.51	46.91
2500	58.08	-2.36	0.51	-1.64	36.24	21.84	0.51	-15.64	2.87	120	46.47	46.86
Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	32.71	-4.85	-0.05	-2.2	21.899	10.807	-0.05	-15.15	4.81	30	49.82	49.4
5170	32.69	-4.86	-0.1	-2.25	21.513	11.18	-0.1	-14.39	4.76	0	50.13	49.77
5190	34.49	-4.62	0.28	-1.87	22.557	11.934	0.28	-15.03	4.9	30	50.42	49.95
5210	35.6	-4.49	0.45	-1.7	23.234	12.366	0.45	-16.92	4.93	30	50.88	50.49
5230	36.07	-4.43	0.36	-1.79	23.868	12.205	0.36	-17.05	4.79	60	50.42	50.08
5250	38.25	-4.17	0.59	-1.56	25.195	13.053	0.59	-15.23	4.77	60	51.02	50.72
5270	39.28	-4.06	0.65	-1.5	25.433	13.846	0.65	-16.02	4.71	60	50.85	50.6
5290	38.97	-4.09	0.57	-1.58	25.373	13.6	0.57	-17.21	4.66	60	51.34	51.12
5310	35.88	-4.45	0.5	-1.65	23.524	12.357	0.5	-19.19	4.95	60	50.44	50.36
5330	36.36	-4.39	0.9	-1.25	23.847	12.508	0.9	-20.87	5.29	60	51.08	51.01
5350	36.56	-4.37	0.77	-1.38	23.732	12.827	0.77	-22.48	5.14	60	51.02	51.01
5370	35.35	-4.52	0.37	-1.78	23.024	12.324	0.37	-19.6	4.89	30	50.91	50.95
5390	31.22	-5.06	-0.28	-2.43	20.327	10.893	-0.28	-22.89	4.77	60	50.46	50.43
5410	37.89	-4.21	0.36	-1.79	24.264	13.63	0.36	-21.85	4.58	60	51.18	51.09
5430	32.3	-4.91	-0.81	-2.96	20.252	12.049	-0.81	-21.19	4.1	60	50.69	50.7
5450	34.69	-4.6	-0.32	-2.47	21.556	13.134	-0.32	-19.53	4.28	60	50.71	50.85
5470	31.15	-5.06	-0.67	-2.82	19.255	11.899	-0.67	-21.24	4.39	60	50.93	50.83
5490	31.55	-5.01	-1.07	-3.22	19.164	12.386	-1.07	-21.01	3.94	60	50.92	50.79
5510	31.93	-4.96	-1.21	-3.36	19.057	12.87	-1.21	-17.86	3.75	60	51.18	51.16
5530	31.5	-5.02	-1.17	-3.32	18.593	12.905	-1.17	-16.57	3.85	60	51.44	51.3
5550	33.23	-4.78	-1.01	-3.16	19.73	13.504	-1.01	-16.39	3.78	120	51.89	51.76
5570	28.59	-5.44	-1.2	-3.35	16.836	11.757	-1.2	-17.58	4.24	30	51.42	51.33
5590	30.62	-5.14	-0.83	-2.98	17.403	13.216	-0.83	-19.06	4.31	30	51.71	51.76
5610	26.18	-5.82	-1.45	-3.6	14.525	11.654	-1.45	-19.06	4.37	60	51.17	51.22
5630	29.54	-5.3	-0.86	-3.01	16.08	13.464	-0.86	-17.65	4.43	60	51.78	51.77
5650	23.39	-6.31	-1.81	-3.96	12.758	10.637	-1.81	-19.73	4.5	60	51.47	51.55
5670	24.82	-6.05	-1.66	-3.81	13.414	11.404	-1.66	-18.76	4.4	60	52.12	52.28
5690	22.19	-6.54	-2.31	-4.46	12.126	10.063	-2.31	-19.52	4.23	90	52.12	52.25
5710	22.25	-6.53	-2.5	-4.65	12.289	9.965	-2.5	-19.78	4.03	90	51.95	52.05
5730	24.3	-6.14	-2	-4.15	13.552	10.745	-2	-19.59	4.14	90	51.59	51.69
5750	21.45	-6.69	-2.79	-4.94	12.114	9.339	-2.79	-19.38	3.89	120	51.12	51.15
5770	23.75	-6.24	-2.42	-4.57	13.528	10.222	-2.42	-19.03	3.83	120	51.02	51.06
5790	22.2	-6.54	-2.74	-4.89	12.774	9.422	-2.74	-18.34	3.8	120	51.08	51.16
5810	24.81	-6.05	-2.34	-4.49	14.375	10.434	-2.34	-16.68	3.71	120	51.36	51.43
5830	25.34	-5.96	-1.95	-4.1	14.833	10.506	-1.95	-15.44	4.01	120	51.65	51.66
5850	27.38	-5.63	-1.55	-3.7	16.09	11.291	-1.55	-15.37	4.07	120	51.88	52.05

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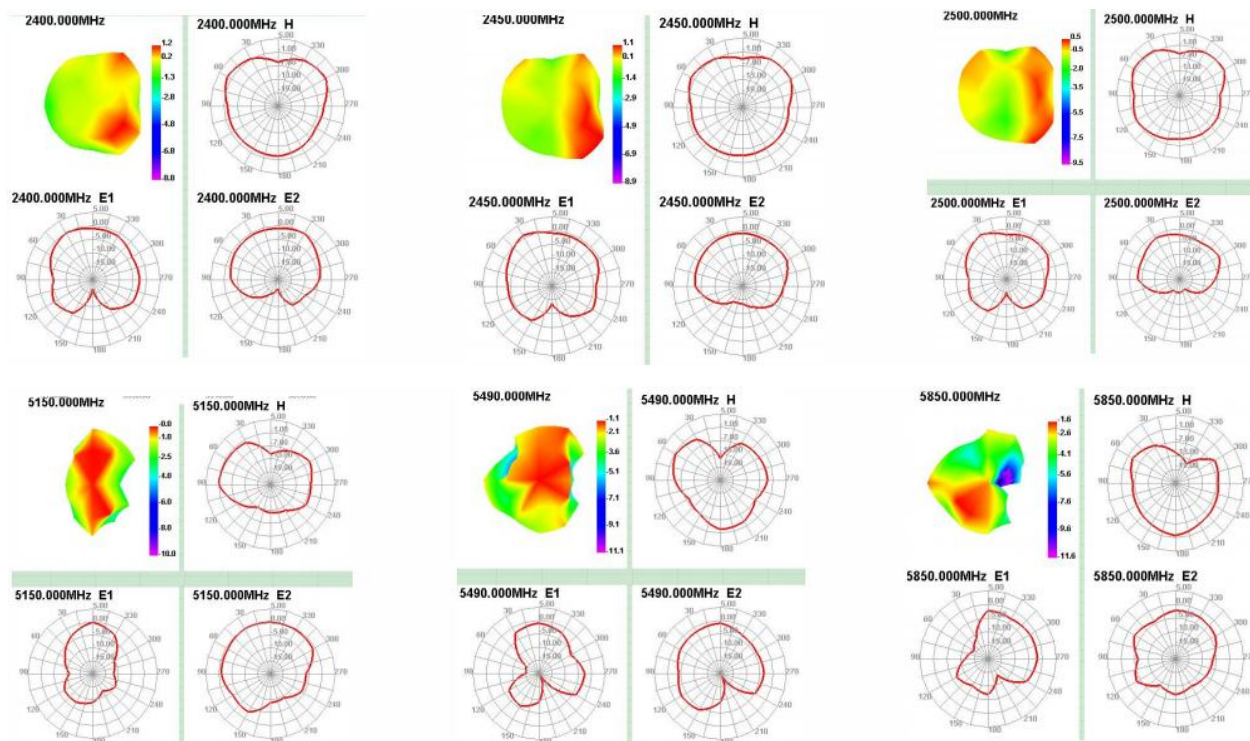
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Radiation Pattern



WiFi/BT Measured

WIFI

测试环境: 开放空间

测试工具: Wifi Analytical Assistant

测试距离: 10m

信号强度: 2.4G :-33dBm 5G:-48dBm

测试结果如右图

BT

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。

SSID	DEVICE	RSSI	FREQUENCY	CHAN
TP-LINK_4160	TP-LINK	-33	2462	11
ChinaNet-HH8u	00:6b:6f:5f:7e:e4	-36	2462	11
	08:79:8c:1d:57:48	-40	2412	1
	08:79:8c:1d:57:4c	-43	5180	36
	00:6b:6f:5f:7e:e8	-49	5180	36
XVC2022	TP-LINK	-36	2442	7
<Hidden SSID>	08:79:8c:1d:57:4f	-43	5180	36
TP-LINK_5G_4160	TP-LINK	-48	5785	157
XVC2023	70:85:c4:73:7d:ad	-51	2432	5
TP-LINK_5G2_9660	TP-LINK	-52	5745	149
HUAWEI-1CAQW9	02:4a:6a:6e:05:96	-53	2412	1
	02:4a:6a:6e:05:9a	-73	5805	161
GAOFEI	9c:2b:a6:cfa9:e7	-53	2412	1
XVC2022-5G	TP-LINK	-55	5180	36
ChinaNet-MIW9	ca:50:e9:9b:7b:62	-59	2412	1
DIRECTdc-HP M281 LaserJet	8e:c8:4b:78:c2:dc	-62	2437	6
Xiaomi_CS02	a4:39:b3:b5:c5:03	-67	2442	7
TAS	d8:59:82:66:7b:b8	-67	2412	1
13A08	58:b3:8f:5b:94:13	-68	2412	1
MOSH	3c:6a:48:67:cb:ec	-70	2412	1
	3c:6a:48:67:cb:ee	-85	5785	157
TP-LINK_15099	TP-LINK	-72	2442	7
伙季	18:2a:57:54:38:50	-75	2412	1

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Throughput Test(2.4G)

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图片		图片	

Throughput Test(5G)

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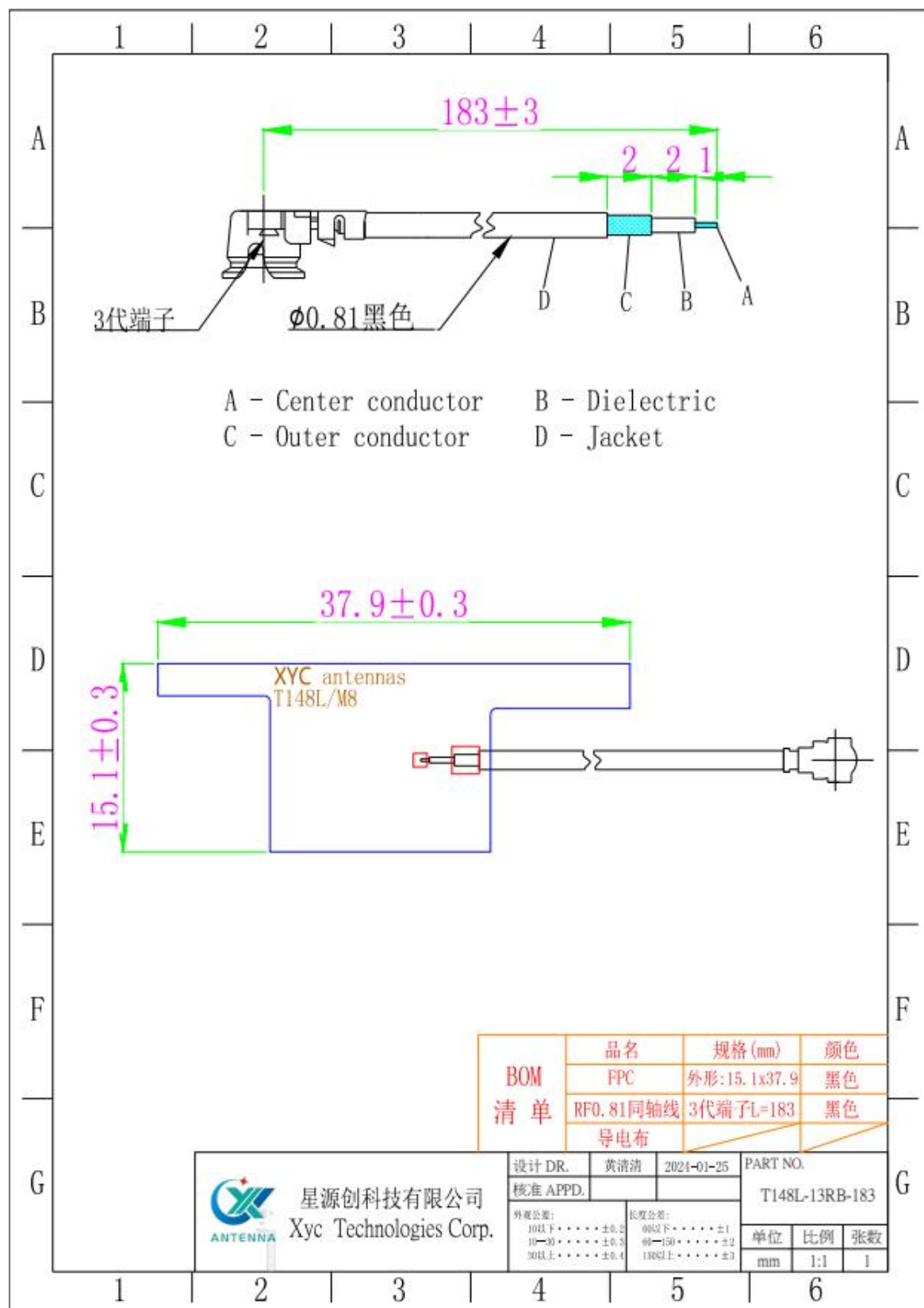
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Antenna Assembly



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