



深圳市星源创科技有限公司

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线规格书

Antenna Specifications

TC: 美迪飞

MN: T10

RF: 关巍

MD: 黄清清

MP: 19918388579

Address: Room 1819, Huasheng Zhihui Building, South Side of Xinsha Road, Fangang Community, Shajing Street, Bao'an District, Shenzhen, China

Date: 2026. 1. 26.

REV :V1. 0



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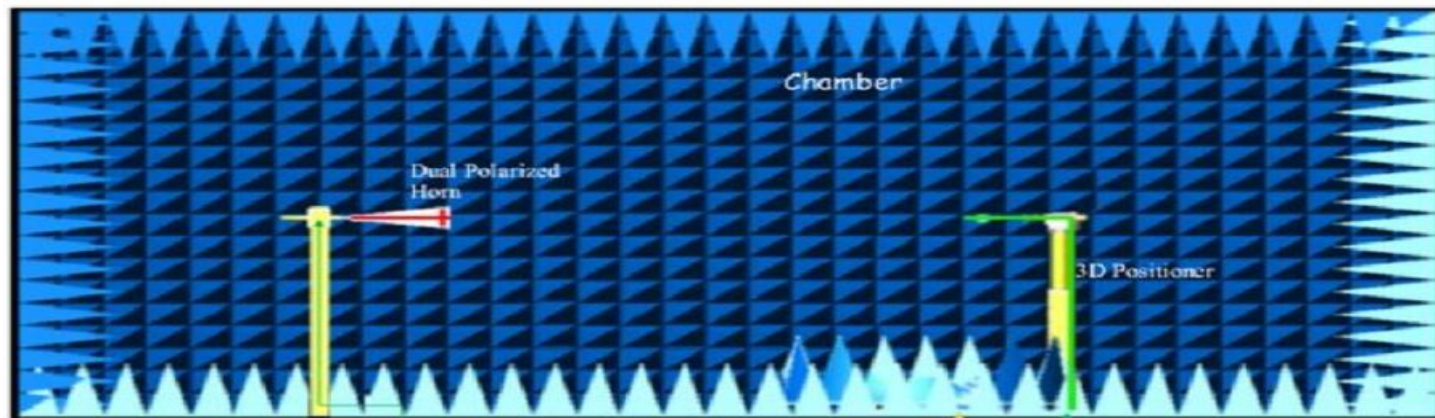
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测试信息

Test information

	Antenna band		Antenna state	Antenna form	Match changes	Note
Main ANT	2G	850/900/1800/1900				
	3G	1/2/5/8	FPC	PIFA	NO	
	4G	2/3/4/5/7/8/17/28/38				
AUX ANT	BT/WIFI	2.4/5G	FPC	PIFA	NO	
	GPS	1.575G	FPC	PIFA	NO	
	DIV					

OTA Chamber Overview

0.1~12.5Ghz
RF Switch BoxWireless
Communications
Test Set 1Wireless
Communications
Test Set 2Network
Analyzer

Standard

Passive	Agilent HP8753/E5062/E5071
GSM	Agilent 8960
CDMA2000	Agilent 8960
WCDMA	Agilent 8960
TDSCDMA	Agilent 8960
LTE	RS CMW500
BT	RS CMU500/200
WIFI	Agilent N4010

RF Link

GPIB Link

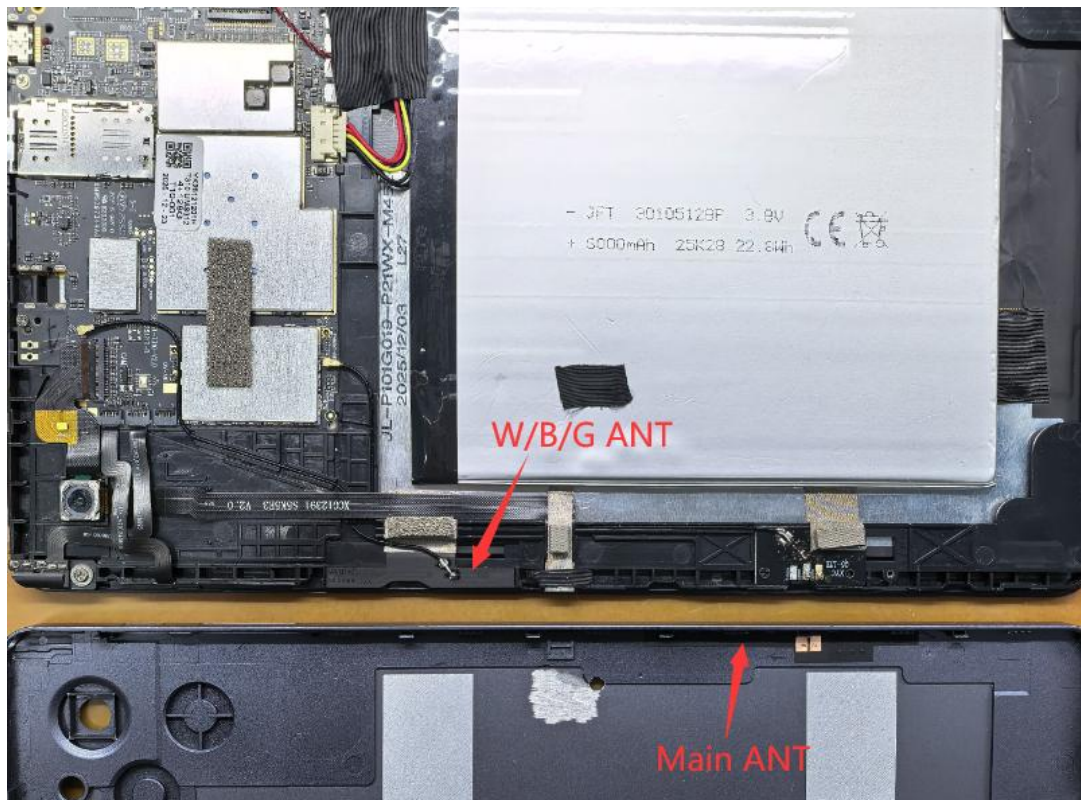
Optical Link

Serial Link



天线位置

Antenna position





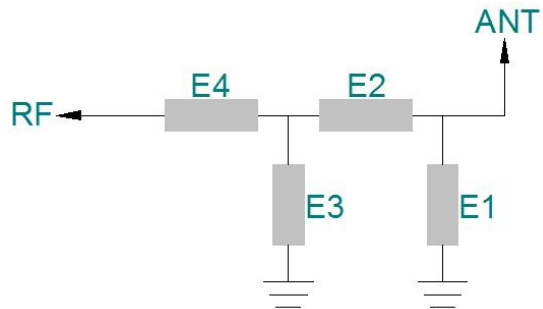
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匹配电路 Matching circuit



	电容 (PF)	电感 (NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

匹配电路原理图&位号图

Band	GSM850			GSM900			GSM-1800(DCS)			GSM-1900(PCS)					
Channel	L	M	H	L	M	H	L	M	H	L	M	H			
TRP(dBm)	25.11	25.11	25.19	24.43	24.35	24.44	23.14	23.32	24.17	24.26	24.2	24.31			
TIS(LCD OFF)			-104.27			-104.42			-104.28			-104.15			
TIS(LCD ON)															
Band	WCDMA-1			WCDMA-2			WCDMA-4			WCDMA-5			WCDMA-8		
Channel	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
TRP(dBm)	17.15	16.53	15.5	17.57	17.49	17.23				16.63	16.68	16.89	16.45	16.18	15.63
TIS(LCD OFF)			-103.15			-104.3						-101.86			-104.48
TIS(LCD ON)															
Band	FDD-Band 1(10M)			FDD-Band 2(10M)			FDD-Band 3(10M)			FDD-Band 4(10M)			FDD-Band 5(10M)		
Channel	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
TRP(dBm)				18.3	18.24	17.53	16.11	17.45	17.73	16.43	17.32	17.44	16.53	17.12	17.34
TIS(LCD OFF)						-91.21			-91.49			-90.34			-89.26
TIS(LCD ON)															
Band	FDD-Band 7(10M)			FDD-Band 8(10M)			FDD-Band 17(10M)			FDD-Band 28(10M)			FDD-Band 66(10M)		
Channel	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
TRP(dBm)	15.54	16.63	17.49	16.3	16.21	15.27	16.33	16.19	15.38	16.68	16.15	15.54	17.12	17.37	17.59
TIS(LCD OFF)			-89.14			-90.05			-89.05			-89.37			-89.29
TIS(LCD ON)															
Band	FDD-Band 38(20M)			FDD-Band 39(20M)			FDD-Band 40(20M)			FDD-Band 41(20M)			FDD-Band 41(20M)		
Channel	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
TRP(dBm)	17.29	17.27	17.3												
TIS(LCD OFF)			-88.37												
TIS(LCD ON)															

GPS冷启动实测效果以下：
CN值40以上2+颗
CN值35以上3+颗
实际定位8+颗

备注：
GPS搜星测试。会因时间段
及地域而存在差异. 以上数
据为我司测试（空旷地带）
最佳数据





Wifi/BT天线实测 Wifi Antenna test

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 :-45dBm 5G:-52dBm

测试结果如右图

名称	设备	强度	频率	信道
XYC2025	c4:b2:5b:28:ee:de	-31	5745	149
←	c6:b2:5b:88:ee:de	-34	2412	1
←	c6:b2:5b:89:29:ef	-51	2437	6
←	c4:b2:5b:29:29:ef	-59	5320	64
< Hidden SSID >	c6:b2:5b:58:ee:de	-31	5745	149
< Hidden SSID >	c6:b2:5b:d8:ee:de	-35	2412	1
HUAWEI-1F33TW	02:a3:26:30:52:c2	-41	2462	11
< Hidden SSID >	72:85:c4:53:7d:ad	-45	2437	6
XYC2023	70:85:c4:73:7d:ad	-45	2437	6
XYC2025-1	TP-LINK	-46	2442	7
XYC2023_5G	72:85:c4:93:7d:ad	-52	5300	60
NETGEAR95	6c:cd:d6:07:22:e8	-53	2447	8
< Hidden SSID >	c6:b2:5b:d9:29:ef	-53	2437	6
ChinaNet-2jvE	TIANYI COMHEART	-54	2422	3
XYC2025-5G	TP-LINK	-55	5180	36
NETGEAR95-5G	6c:cd:d6:07:22:e7	-56	5220	44
< Hidden SSID >	c6:b2:5b:59:29:ef	-59	5320	64
HUAWEI-1F33TW_5G	02:a3:26:30:52:c6	-67	5220	44
万丰海岸城7楼	5c:b0:0a:41:33:0c	-77	2462	11
ChinaNet-GF5F	ec:c3:b0:b3:07:c7	-84	2412	1
吴华耀	78:eb:46:b9:25:cc	-86	2412	1

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。



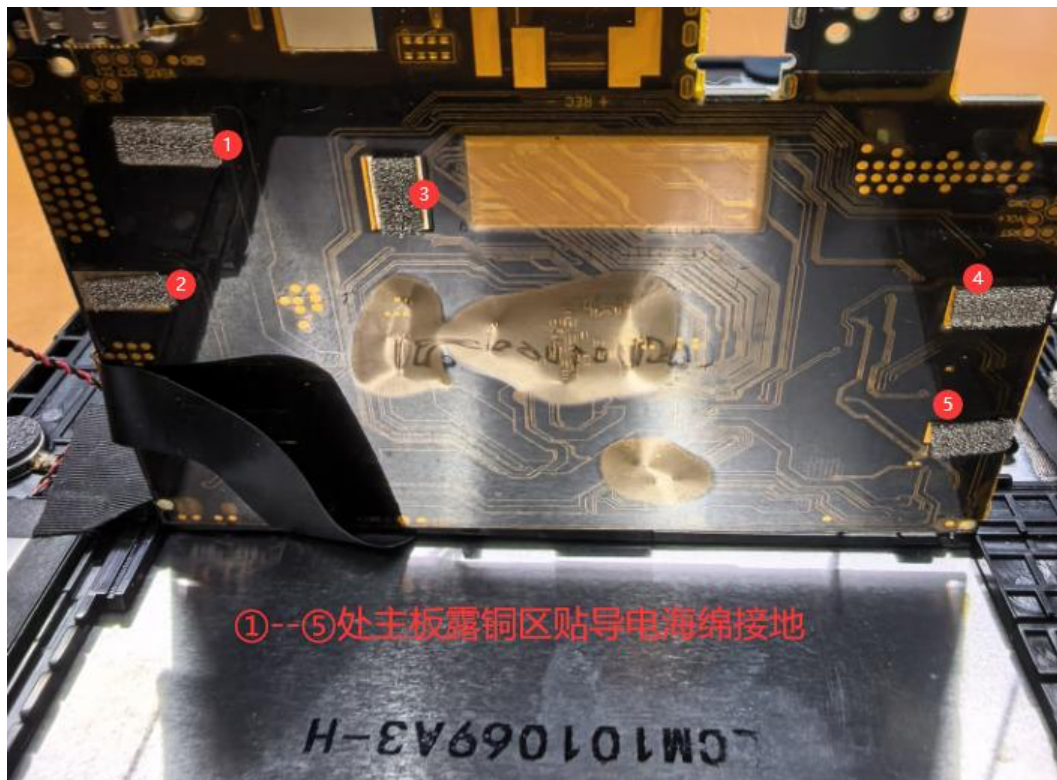
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环境处理

Environmental treatment





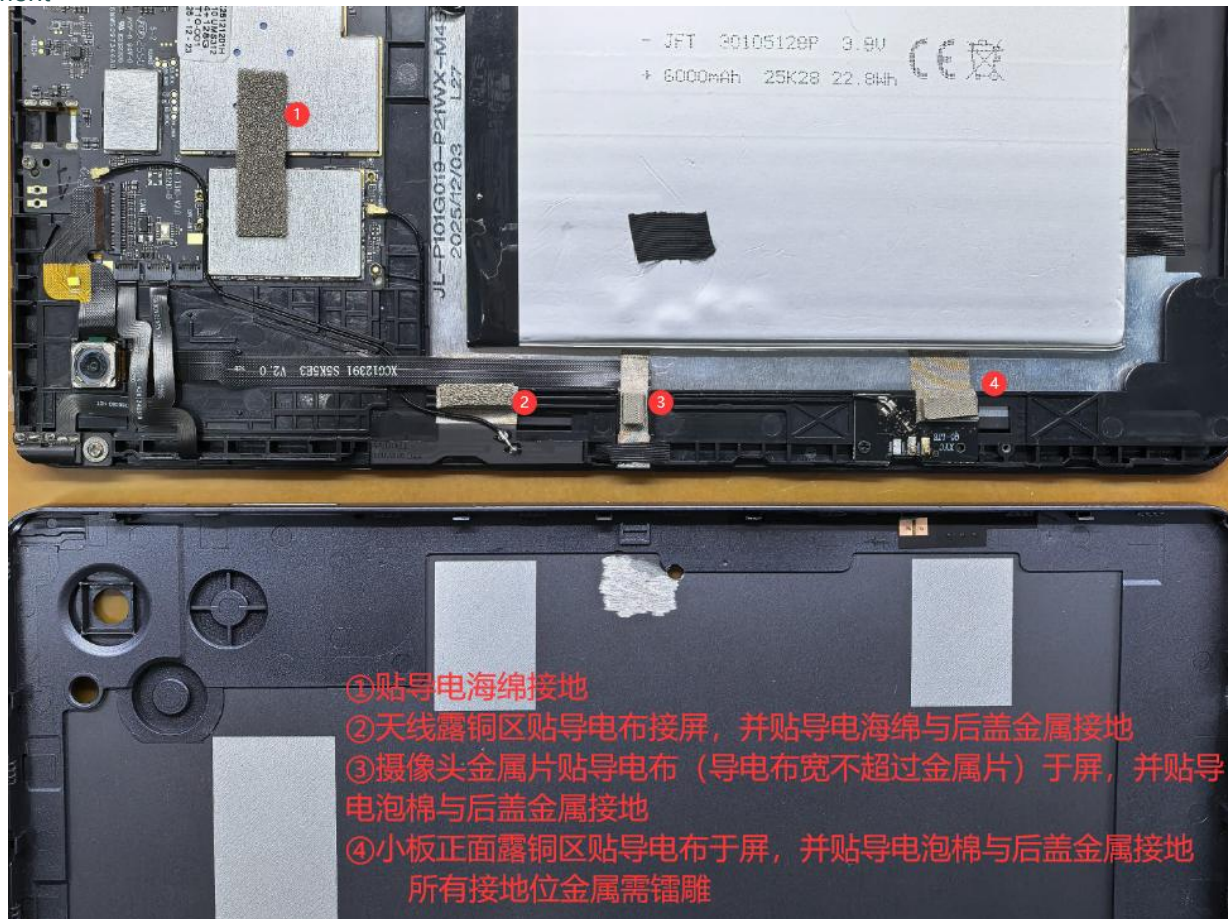
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无源测试数据

Passive test data

ANT GAIN&Efficiency-700-2700M

Passive Test For 低频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	25.04	-6.01	-3.37
710	24.06	-6.19	-3.65
720	24.18	-6.17	-3.75
730	22.72	-6.44	-3.99
740	18.36	-7.36	-4.66
750	16.76	-7.76	-4.89
760	16.81	-7.74	-4.98
770	16.88	-7.73	-4.99
780	16.89	-7.72	-4.93
790	15.2	-8.18	-5.45
800	15.51	-8.09	-5.53
810	16.98	-7.7	-5.15
820	17.1	-7.67	-5.15
830	14.46	-8.4	-6.29
840	12.64	-8.98	-6.99
850	14.91	-8.26	-5.78
860	14.59	-8.36	-5.65
870	13.05	-8.84	-5.9
880	12.91	-8.89	-6.03
890	13.69	-8.64	-5.77
900	14.64	-8.35	-5.59
910	15.8	-8.01	-5.1
920	13.56	-8.68	-5.48
930	14.29	-8.45	-5.24
940	15.62	-8.06	-4.63
950	14.5	-8.39	-4.83
960	14.45	-8.4	-4.66

Passive Test For 高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	23.41	-6.31	-2.61
1720	23.76	-6.24	-2.61
1730	24.7	-6.07	-2.39
1740	31.79	-4.98	-1.23
1750	35.02	-4.56	-0.8
1760	31.01	-5.08	-1.21
1770	34.49	-4.62	-0.8
1780	40.14	-3.96	-0.33
1790	38.77	-4.12	-0.47
1800	38.88	-4.1	-0.39
1810	39.31	-4.05	-0.26
1820	41.18	-3.85	0.1
1830	42.6	-3.71	0.26
1840	45.34	-3.44	0.57
1850	45.1	-3.46	0.62
1860	42.86	-3.68	0.47
1870	42.11	-3.76	0.41
1880	38.94	-4.1	0.06
1890	34.48	-4.62	-0.44
1900	31.2	-5.06	-0.89
1910	36.74	-4.35	-0.12
1920	34.8	-4.58	-0.29
1930	31.78	-4.98	-0.57
1940	35.41	-4.51	0.02
1950	32.16	-4.93	-0.39
1960	35.98	-4.44	0.09
1970	34.75	-4.59	-0.1
1980	33.62	-4.73	-0.21
1990	32.63	-4.86	-0.37
2000	33.89	-4.7	-0.24
2010	37.69	-4.24	0.26
2020	33.93	-4.69	-0.12
2030	29.63	-5.28	-0.68
2040	38.06	-4.2	0.33
2050	34.11	-4.67	-0.06
2060	30.55	-5.15	-0.5
2070	28.17	-5.5	-0.95
2080	31.82	-4.97	-0.54
2090	29.97	-5.23	-0.87
2100	24.39	-6.13	-1.83

Passive Test For 高频			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2110	26.36	-5.79	-1.14
2120	28.65	-5.43	-0.47
2130	25.39	-5.95	-0.93
2140	23.11	-6.36	-1.01
2150	21.15	-6.75	-0.55
2160	20.44	-6.9	-0.4
2170	19.49	-7.1	-0.68
2500	44.43	-3.52	1.35
2510	40.59	-3.92	0.88
2520	39.66	-4.02	0.84
2530	40.51	-3.92	0.99
2540	38	-4.2	0.79
2550	36.76	-4.35	0.66
2560	39.38	-4.05	0.91
2570	32.97	-4.82	0.09
2580	28.42	-5.46	-0.57
2590	29.88	-5.25	-0.42
2600	28.9	-5.39	-0.78
2610	22.94	-6.39	-1.91
2620	23.29	-6.33	-1.89
2630	20.11	-6.97	-2.56
2640	19.89	-7.01	-2.84
2650	20.48	-6.89	-2.95
2660	19.51	-7.1	-3.28
2670	15.47	-8.11	-4.43
2680	15	-8.24	-4.88
2690	18.84	-7.25	-3.97



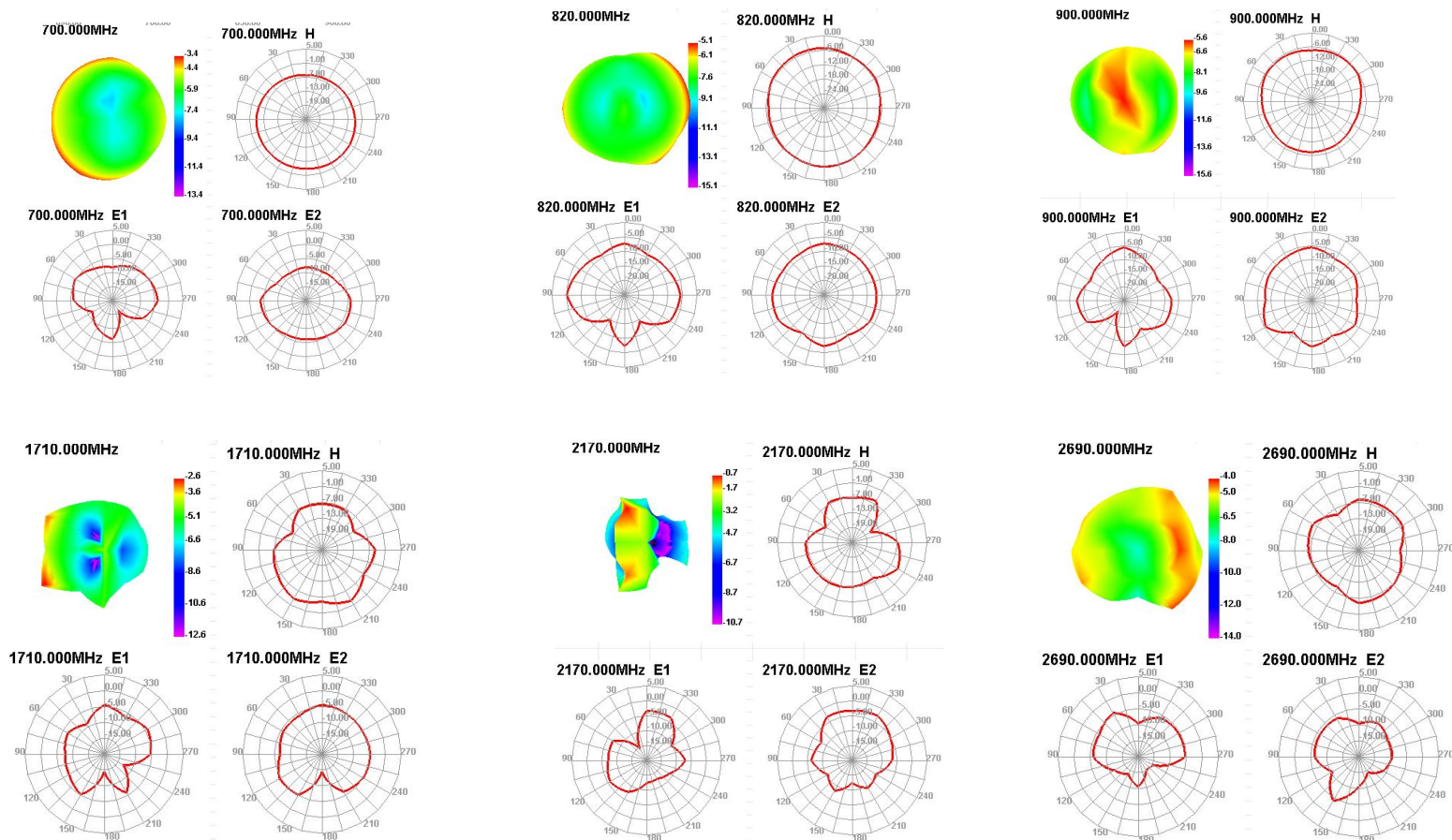
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无源测试数据
Passive test data

ANT GAIN&Efficiency-700-2700M





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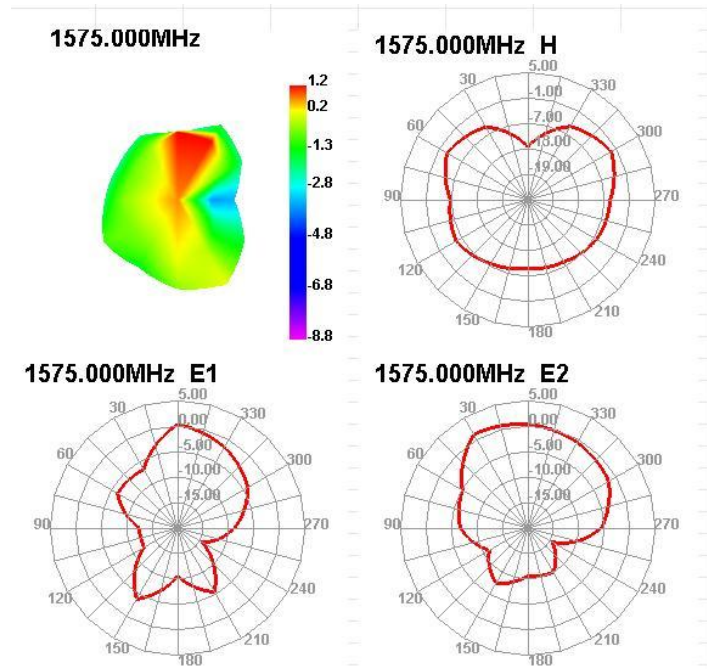
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Passive test data

ANT GAIN&Efficiency-1.575/2.4/5G/BT

Passive Test For GPS						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
1560	35.03	-4.56	1.59	-0.56	24.816	10.211
1565	32.78	-4.84	1.2	-0.95	23.11	9.671
1570	32.07	-4.94	1.04	-1.11	22.495	9.577
1575	33.79	-4.71	1.2	-0.95	23.632	10.157
1580	35.78	-4.46	1.38	-0.77	25.086	10.699
1585	36.91	-4.33	1.49	-0.66	25.982	10.929
1590	37.19	-4.3	1.42	-0.73	26.233	10.955
1595	35.92	-4.45	1.23	-0.92	25.386	10.539
1600	32.73	-4.85	0.74	-1.41	23.157	9.572

无源测试数据
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Passive test data

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Passive Test For WIFI2.4				
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	45.13	-3.46	0.88	-1.27
2410	42.57	-3.71	1	-1.15
2420	41.64	-3.8	1.11	-1.04
2430	41.32	-3.84	1.08	-1.07
2440	42.92	-3.67	1.05	-1.1
2450	43.18	-3.65	0.77	-1.38
2460	46.28	-3.35	0.78	-1.37
2470	46.06	-3.37	0.47	-1.68
2480	41.44	-3.83	-0.19	-2.34
2490	37.95	-4.21	-0.7	-2.85
2500	45.91	-3.38	0.02	-2.13



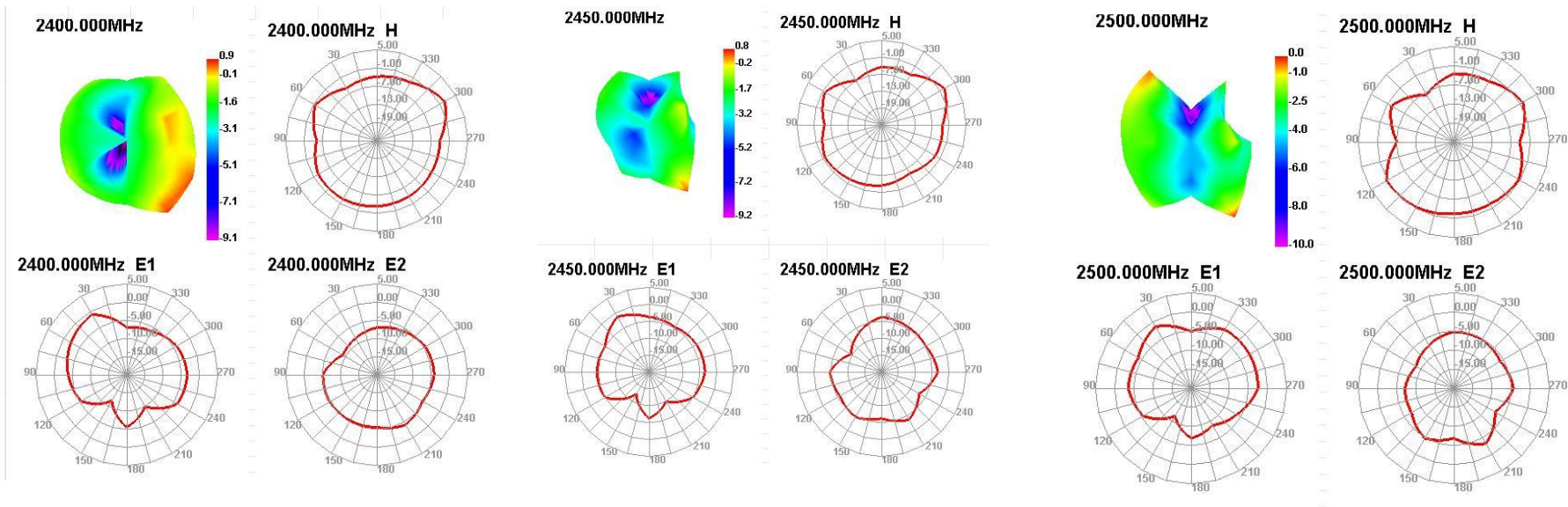
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Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	35.45	-4.5	1.07	-1.08	20.195	15.259
5170	39.68	-4.01	1.85	-0.3	22.411	17.269
5190	31.79	-4.98	1.25	-0.9	18.094	13.691
5210	33.96	-4.69	1.81	-0.34	19.563	14.397
5230	32.01	-4.95	1.68	-0.47	18.424	13.585
5250	35.45	-4.5	2.18	0.03	20.088	15.361
5270	36.53	-4.37	2.35	0.2	20.562	15.969
5290	35.59	-4.49	2.19	0.04	20.19	15.398
5310	34.24	-4.65	1.92	-0.23	19.521	14.722
5330	37.22	-4.29	2.3	0.15	21.366	15.849
5350	43.34	-3.63	3.19	1.04	24.708	18.631
5370	40.79	-3.89	3.07	0.92	23.023	17.766
5390	42.04	-3.76	3.3	1.15	23.679	18.366
5410	38.47	-4.15	2.91	0.76	21.761	16.711
5430	38.28	-4.17	2.95	0.8	21.783	16.495
5450	37.42	-4.27	3.04	0.89	21.391	16.027
5470	39.76	-4	3.38	1.23	22.988	16.777
5490	36.91	-4.33	3.16	1.01	21.515	15.393
5510	41.24	-3.85	3.73	1.58	23.958	17.281
5530	34.92	-4.57	3.24	1.09	19.962	14.962
5550	39.13	-4.07	3.86	1.71	22.077	17.058
5570	35.73	-4.47	3.55	1.4	19.979	15.748
5590	37.63	-4.25	3.75	1.6	21.003	16.623
5610	33.6	-4.74	3.08	0.93	18.799	14.804
5630	37.13	-4.3	3.35	1.2	20.753	16.377
5650	33.6	-4.74	2.66	0.51	18.834	14.761
5670	35.14	-4.54	2.5	0.35	20.059	15.082
5690	34.96	-4.56	2.09	-0.06	20.244	14.711
5710	34.24	-4.65	1.6	-0.55	19.949	14.29
5730	32.41	-4.89	0.8	-1.35	18.915	13.498
5750	32.75	-4.85	0.08	-2.07	19.221	13.531
5770	39.37	-4.05	0.49	-1.66	23.194	16.18
5790	32.95	-4.82	-0.22	-2.37	19.333	13.621
5810	36.87	-4.33	0.56	-1.59	21.667	15.2
5830	32.52	-4.88	-0.07	-2.22	19.022	13.5
5850	36.56	-4.37	0.25	-1.9	21.363	15.197



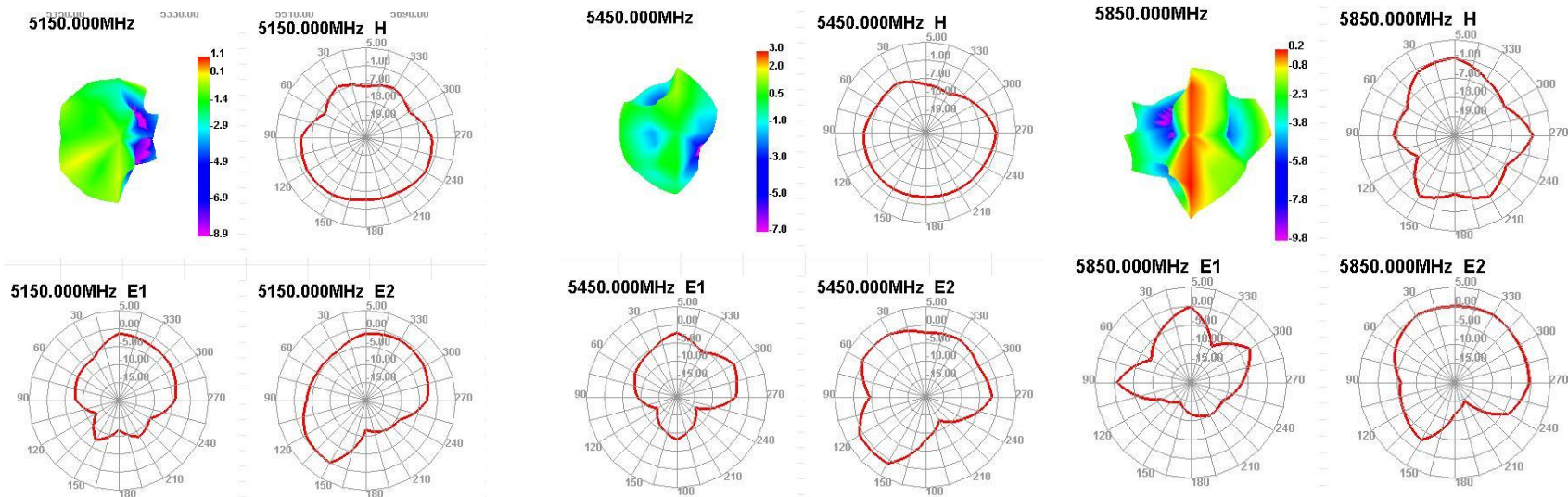
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无源测试数据
Passive test data

ANT GAIN&Efficiency-1.575/2.4/5G/BT





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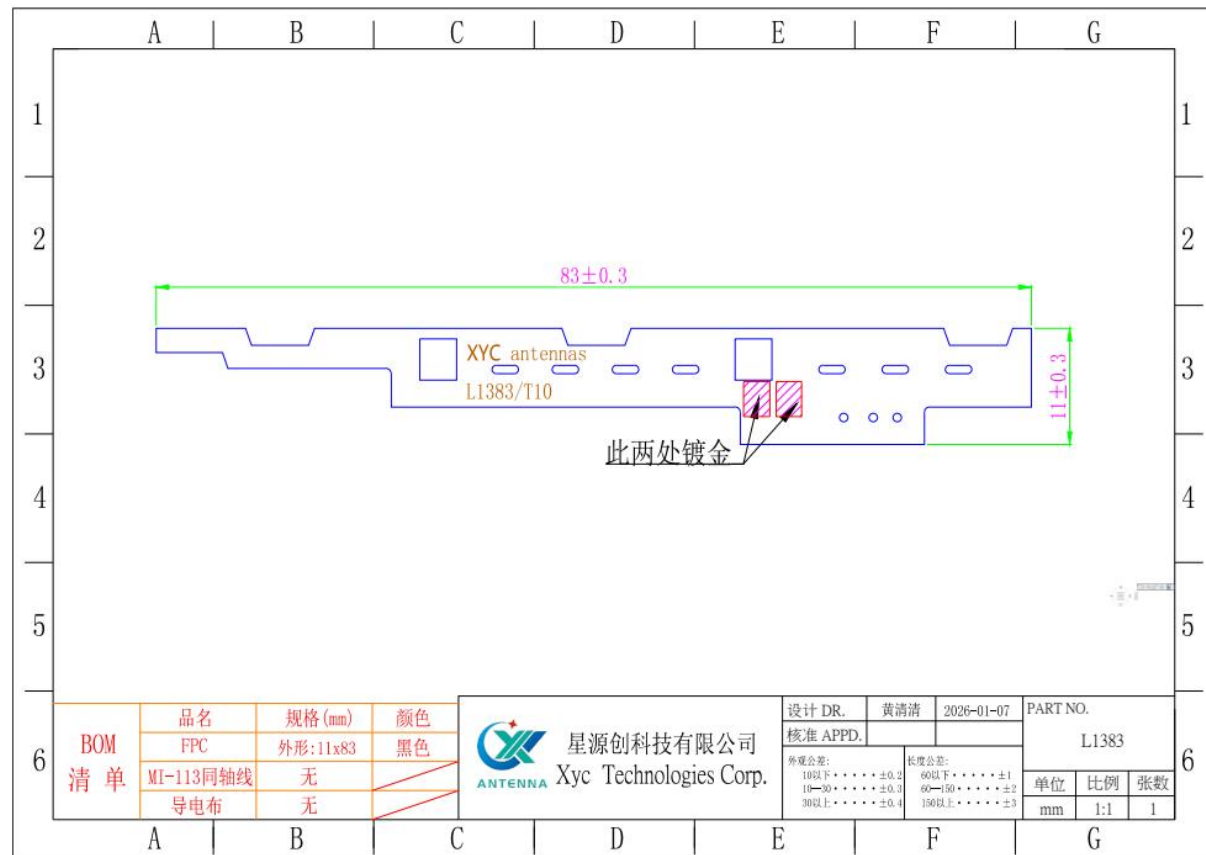
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成品图

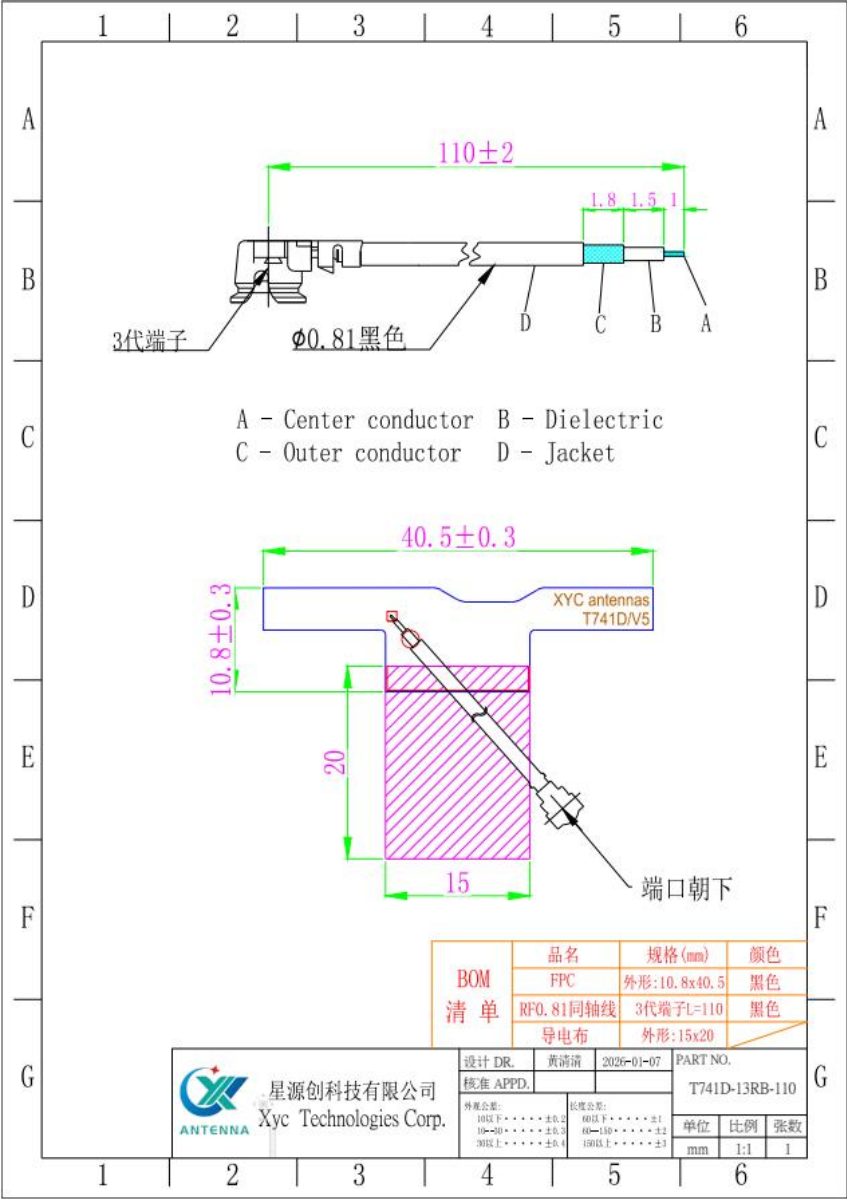
Finished product image

ANT GAIN&Efficiency-1.575/2.4/5G/BT



成品图
Finished product image

ANT GAIN&Efficiency-1.575/2.4/5G/BT





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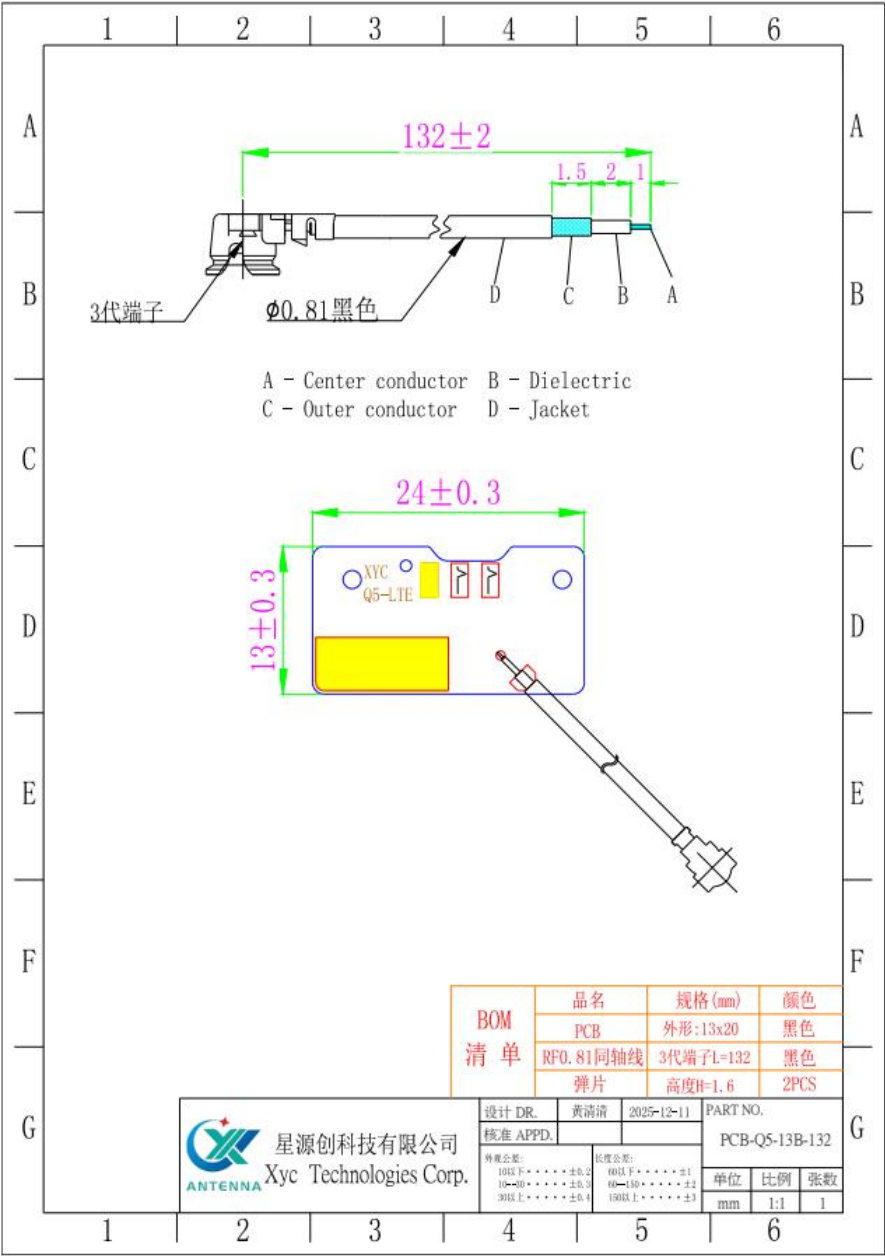
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成品图

Finished product image

ANT GAIN&Efficiency-1.575/2.4/5G/BT



合作共赢

