

规格承认书
Specification sheet

客 户	元征科技
Customer name	
客户料号	
Customer P/N	
品 名	PAD5-V5-右支架天线, 支架+双 WIFI 天线, 1.13 黑色
	线接一代端子,WIFI1 天线 L=104MM,WIFI2 天线
	L=155MM,, , ROHS
Article Description	
同讯料號	KC. IA. 00618
TOXU Part No.	
承认书号码	A20250528-002
Approval sheet No.	
日 期	2025. 06. 12
Date	

承认填写栏 Signature confirmation			
供应商确认（供方填写栏） Supplier signature		客户承认（需方填写栏） Customer signature	
李德文			
盖章 seal:		盖章 seal:	
日期 date	2025. 04. 28	日期 date	
备注 Remarks:			

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3. 承认书变更履历

版本 (REV)	发起人 (Originator)	日期 (Date)	变更描述(Change Description)
A/0	LI	2025.04.28	First Version
A/1	Devin	2025.05.28	WIFI1 线长由 98MM 加长到 104MM (加长 6MM)
A/2	Devin	2025.06.12	WIFI2 线长由 150MM 加长到 155MM (加长 5MM)

4. 产品相片(Product photos):



地址：深圳市龙华区福城街道茜坑社区茜坑路 52 号
ADDRESS:5th floor, No. 52, Xikeng Road, Xikeng community, Fucheng street, Longhua District, Shenzhen
电话 (TEL)：0755-28199597 网址 (WEB)： www.toxutech.com

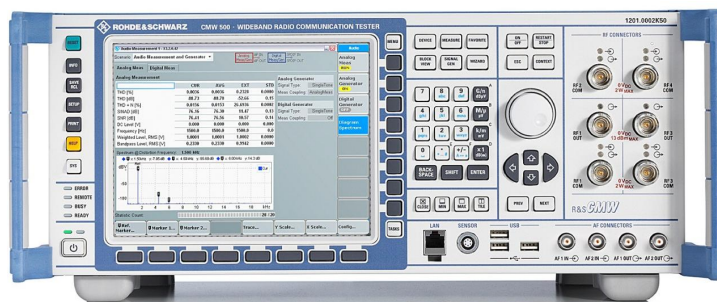
5. 机械及电气性能(Mechanics and Electrical Specification)

产品名称 (Name)	PAD5-V5右支架天线	产品型号 (Model Type)	KC. IA. 00618
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frenquency Range)	2400-2500/5150-5850MHZ	极化方式 (Polarization)	线极化
输入阻抗 (Impedance)	50 Ω	辐射方向 (Radiation direction)	全向 omnidirectional
驻波比 (VSWR)	≦2	功率容量 (Power)	10W
增益 (Gain)	3.48dBi (MAX)	带宽 (Bandwidth)	100/700MHZ
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	L*W*T=128.2*104*14.6MMMM	颜色 (colour)	黑色black
连接器型号 (Connector)	IPEX-I	引线长度 (Cable Length)	104/155 MM
材料 Radome Material	ABS	防水 (waterproof)	/
工作温度 (Working Temperature)	-40℃--+85℃	存放温度 (Limit Temperature)	-40℃--+85℃
天线类型 (Antenna type)	PIFA		

6 性能报告(Performance report)

6.1 测试项目及设备 Test Items and Equipment

	测试项目 Test Items	测试设备 Test Equipment
S Parameter	1. Return loss 2. VSWR	Network analyzar (Aglient E5071C)
The whole machine of Passive parameters	1. Frequency 2. Gain 3. Radiation Patten	1.3D microwarve darkroom (4M*3M*3M) 2.Network analyzer
The whole machine of Active parameters	1. TRP 2. TIS	1.3D microwave darkroom (4M*3M*3M) 3. Comprehensive test instrument 4. (CMW500)(E7515E)
Instrument calibration	Once a year, Last calibration: 2024.10.22, Valid until:2025.10.21	



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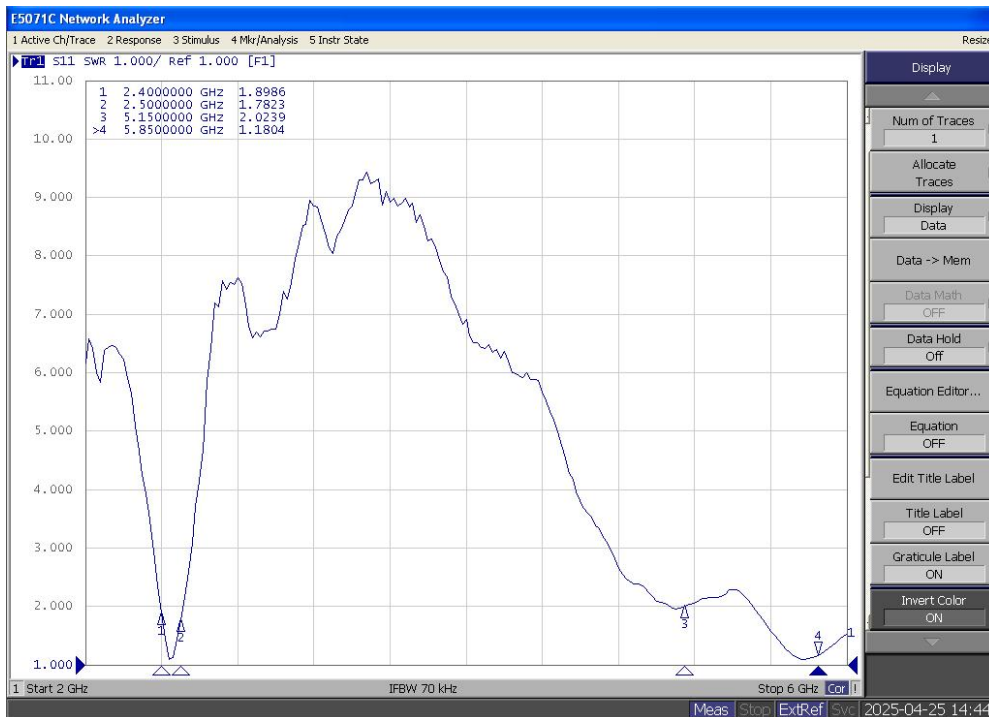
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6.2 性能报告(Performance report)

6.2.1 电压驻波比（VSWR）：WIFI1



WIFI2



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6.2.2 效率@增益（Efficiency and Gain）：WIFI-1

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	2.77	50.58
2410	2.95	48.53
2420	2.57	52.84
2430	3.12	59.43
2440	2.67	51.17
2450	2.87	53.83
2460	3	54.83
2470	3.12	55.85
2480	3.34	58.61
2490	3.2	61.66
2500	3.48	60.53

Frequency/Mhz	MaxGain/dBi	Efficiency / %
5150	-0.09	45.48
5200	0.25	44.67
5250	0.14	44.04
5300	0.11	44.67
5350	0.12	48.02
5400	0.48	44.77
5450	0.43	46.98
5500	0.05	47.07
5550	0.35	46.02
5600	0.03	47.15
5650	0.25	47.93
5700	0.23	47.41
5750	-0.1	46.39
5800	-0.18	48.28
5850	-0.41	49.17

WIFI-2:

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.03	45.81
2410	0.89	43.42
2420	0.88	44.5
2430	1.37	45.66
2440	1.2	45.81
2450	1.36	49.36
2460	1.77	49.17
2470	1.49	50.27
2480	2.31	53.85
2490	2	46.24
2500	3.05	47.08

Frequency/Mhz	MaxGain/dBi	Efficiency / %
5150	1.24	42.5
5200	0.61	41.88
5250	0.55	44.74
5300	0.64	45.33
5350	1.03	45.84
5400	1.83	46.75
5450	1.23	44.36
5500	2.14	45.46
5550	2.54	43.4
5600	2.41	43.11
5650	2.63	44.93
5700	1.88	44.37
5750	1.98	44.36
5800	2.26	46.98
5850	2.07	46.83

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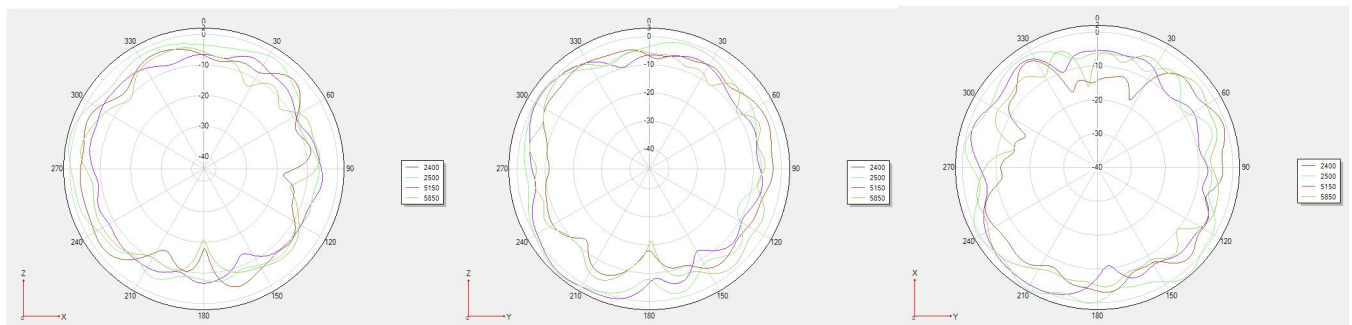
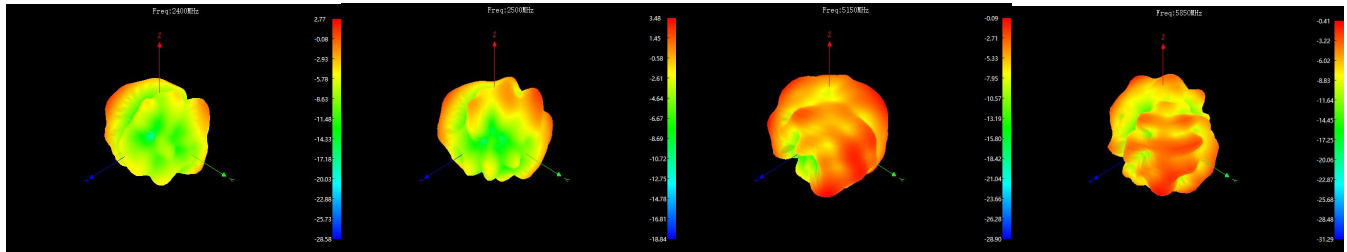
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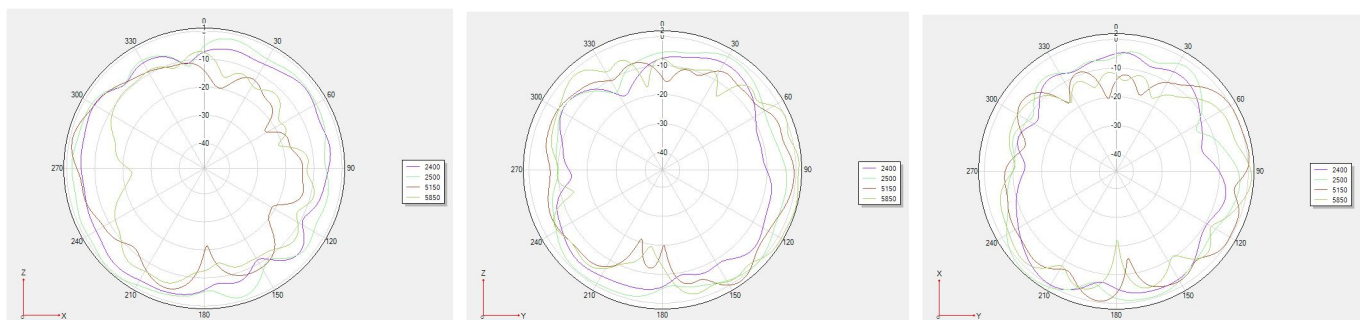
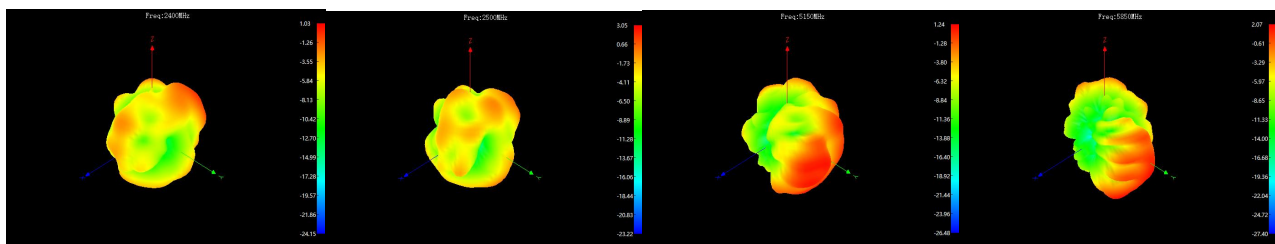
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6.2.3 3D@2D 辐射方向（3D & 2D Radiation Pattern）：

WIFI1:



WIFI2:



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6.2.4 有源 OTA 测试 (OTA testing)

Band	Channel	TRP/TIS
WIFI_B (11M)	1	13.62
WIFI_B (11M)	11	14.11
WIFI_B (11M)	11	-81.36
WIFI_G (54M)	1	11.67
WIFI_G (54M)	11	11.5
WIFI_G (54M)	11	-71.52
WIFI_N_ISM (65M)	1	11.08
WIFI_N_ISM (65M)	11	11.19
WIFI_N_ISM (65M)	11	-68.74
WIFI_A (54M)	36	16.14
WIFI_A (54M)	165	12.7
WIFI_A (54M)	165	-68.36

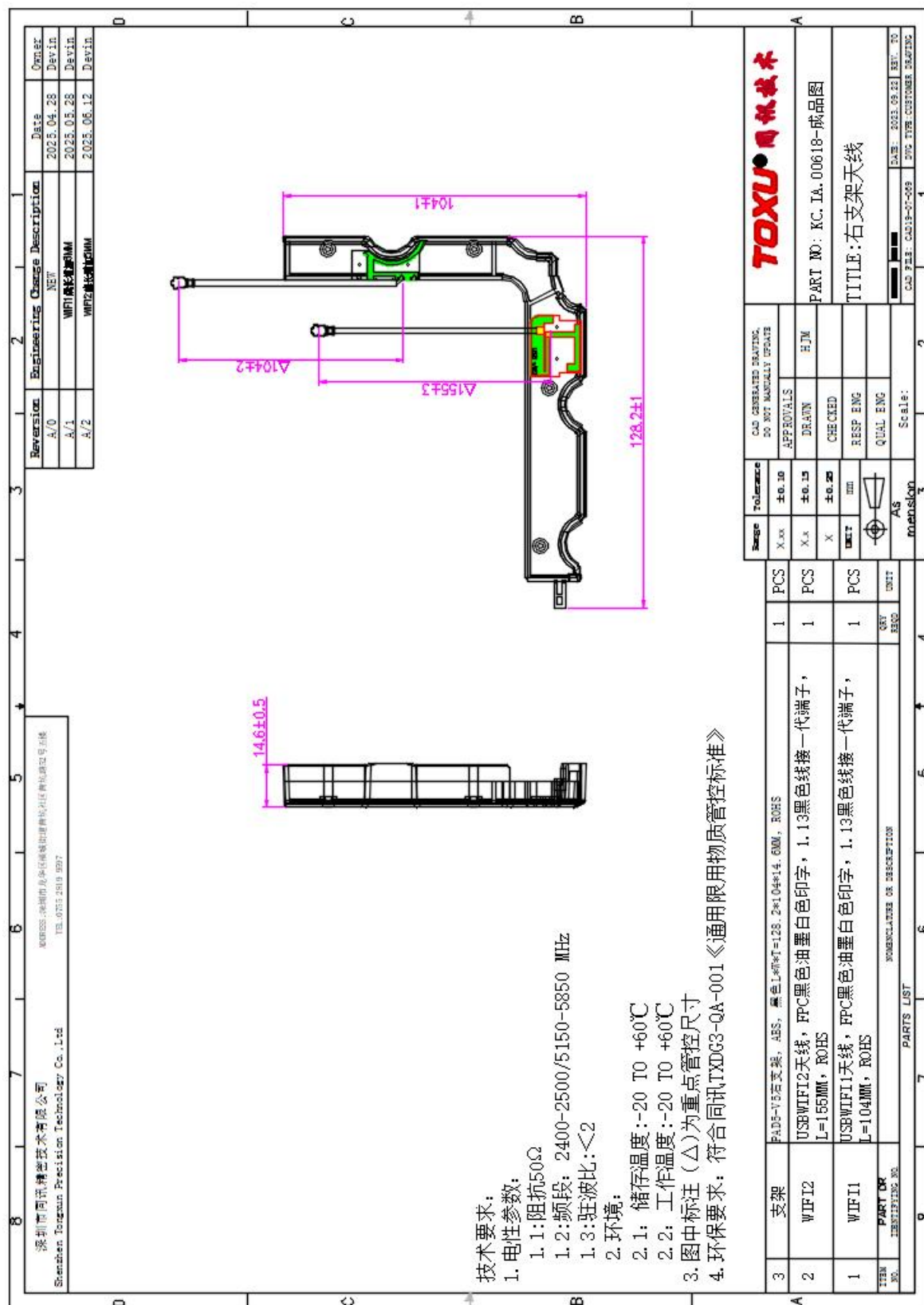
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7.成品图 (Customer Drawing)



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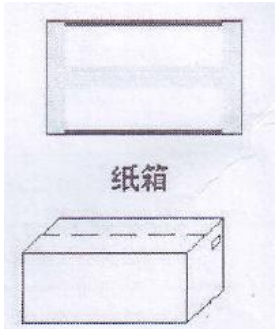
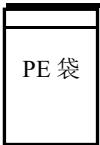
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8. 包装方式（Packaging）：

Product number: XXXXX			
Product model: XXXXX			
一、Label requirements:			
Customer	xxx		
supplier	XXXXXX		
Material coding	xx		
Product model	xx		
Number	XXX PCS	Factory date	X X X
Remarks			
二、Boxing:			
Job description:			
1. Inner packaging:			
XXpcs A bag			
2. External packaging:			
Xx PCS ;			
3. Matters needing attention:			
a. Whether to add partition and pearl cotton;			
b. Label attachments, such as ROHS, etc.;			



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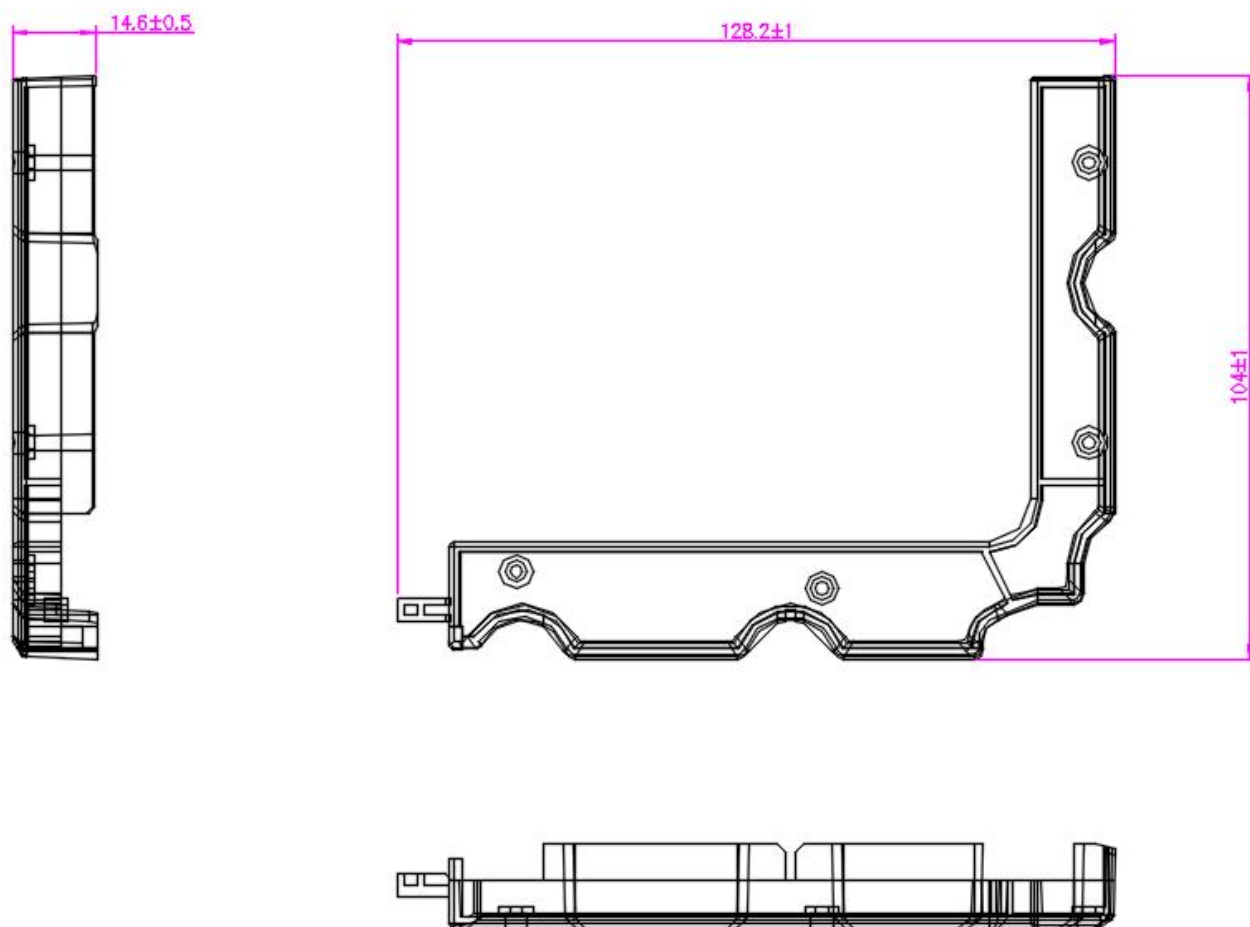
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9. 物料拆分（BOM）：

物料名称	材质	描述	用量
右支架	ABS	ABS 黑色, L*W*T=128.2*104*14.6	1PCS
WIFI1 天线	FPC+同轴线	FPC 黑油白字+一代端子线 L=104MM	1PCS
WIFI2	FPC+同轴线	FPC 黑油白字+一代端子线 L=155MM	1PCS

9.1 支架图：



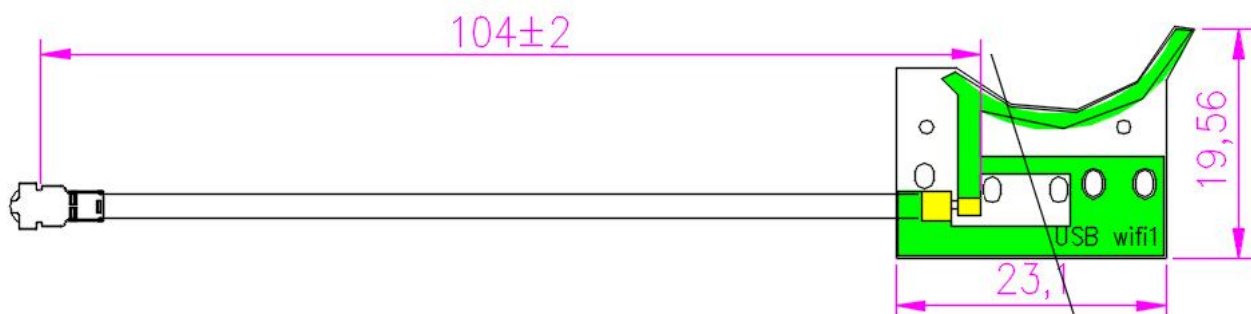
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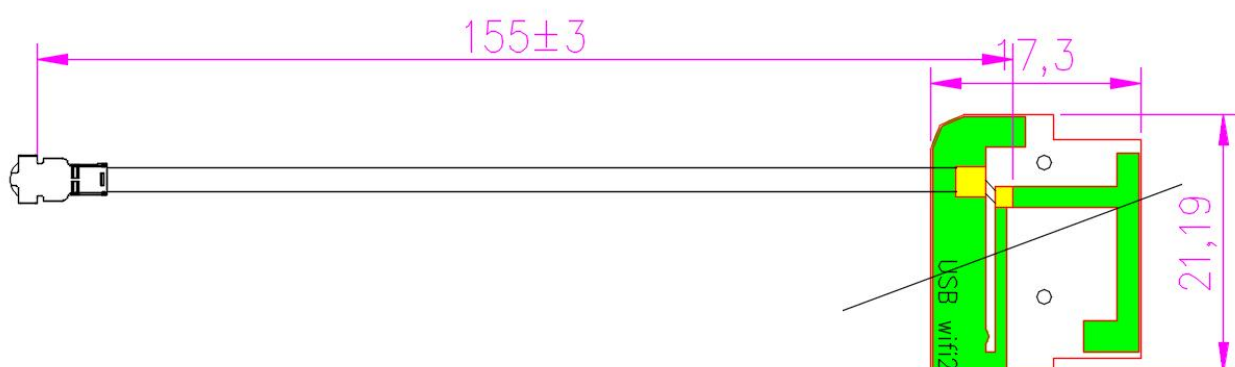
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9.2 WIFI1 天线



9.2 WIFI2 天线



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