



Product Specification

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Shenzhen DEWEIMA Communication Equipment Co.Ltd

Add:3D, Building 2, Jingying Quting, Yu'an 1st Road, Xin'an Street, Bao'an District, Shenzhen , China

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME (客户名称)	Gaoju Innovation
CUSTOMER P/N (客户料号)	111601-00043
PART NAME (品 名)	F09-2.0PCB antenna
DWM P/N (料 号)	
APPROVAL REV. 版次	DWM-V2.0



CONTRACTOR			DATE: 2023.12.19
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
高春彦	段燕林	陈显叶	余奇学

CUSTOMER		DATE:
Approved By	Checked By	Prepared By



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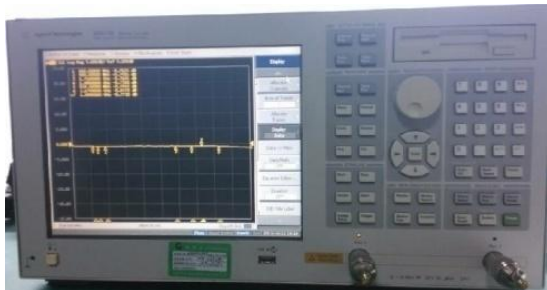
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1. Product Application/产品应用

该天线产品用于 5.8G 信号的传输。

2. The test environment, equipment/测试环境、设备

Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.1	Passive testing /无源测试	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices. (VSWR 测量装置依次连接: 网络分析仪测量电缆 agilent5071B→→客户提供终端。)	驻波比: 5150-5850MHz<2 阻抗: 50 ohm
		Test equipment/测试设备	
			
Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.2	增益及 效率测试	Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances. (以下图片显示的天线的测量条件被放在测量装置,它是用于所有的测量电性能。)	天线增益: 5150-5850MHz: $3 \pm 1\text{dBi}$ 天线效率: 5150-5850MHz >40%



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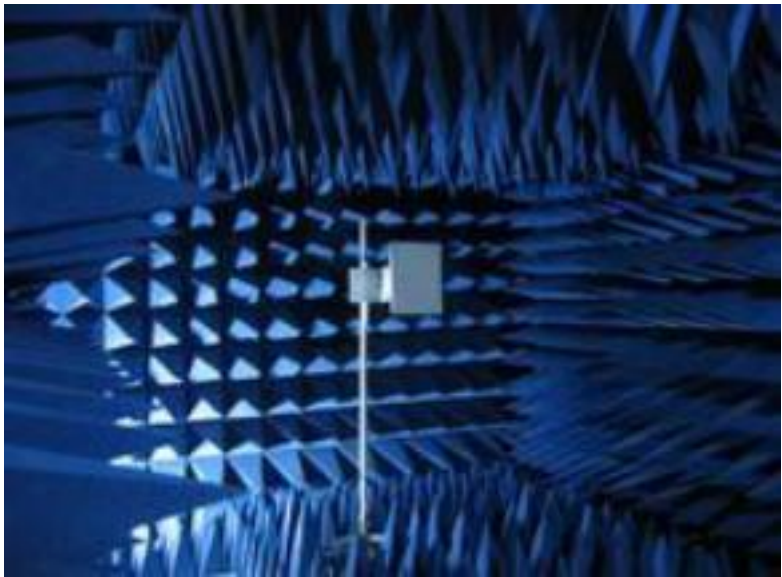
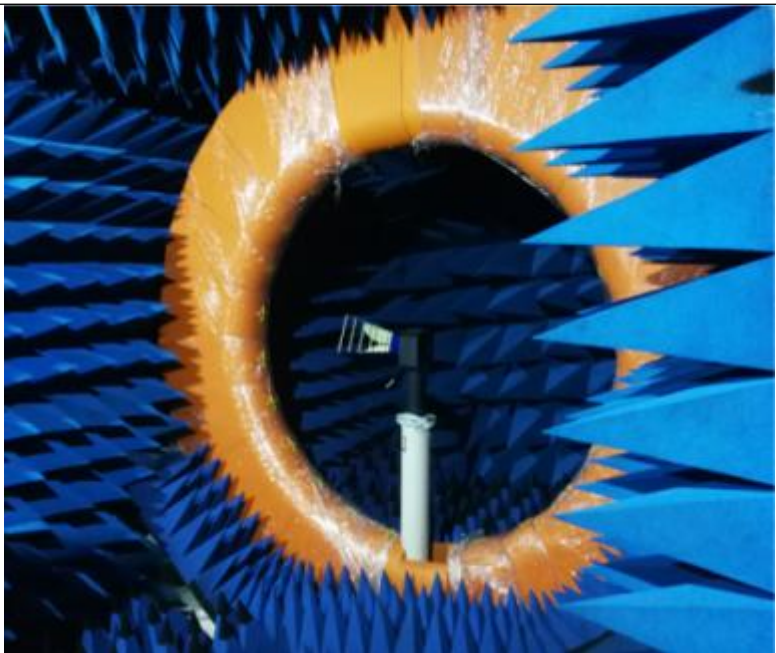
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Test equipment/测试设备

2.3
Microwave
Anechoic
(Satimo&ETS
)
/微波暗室





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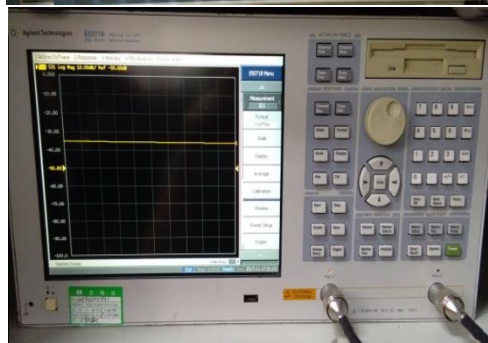
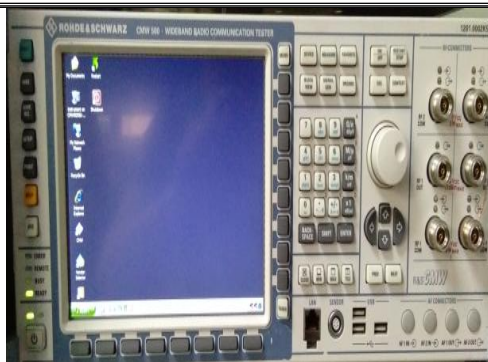
CMW500

Agilent5071B

2.4

AgilentE4405B

Agilent8960





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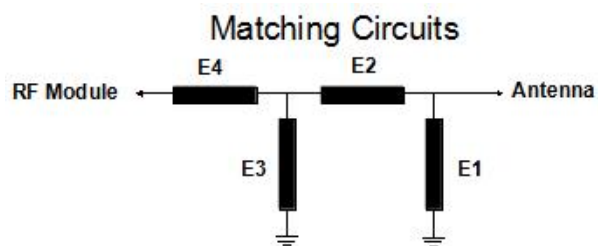
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3. Technology Parameters/技术参数

Frequency Range/频率范围: 5150-5850MHz
Operating Humidity/工作湿度: 85% R.H.MAX
Temperature Rating/温度范围: -40°C ~ +85°C

3.1 The matching test value/调试匹配值

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	





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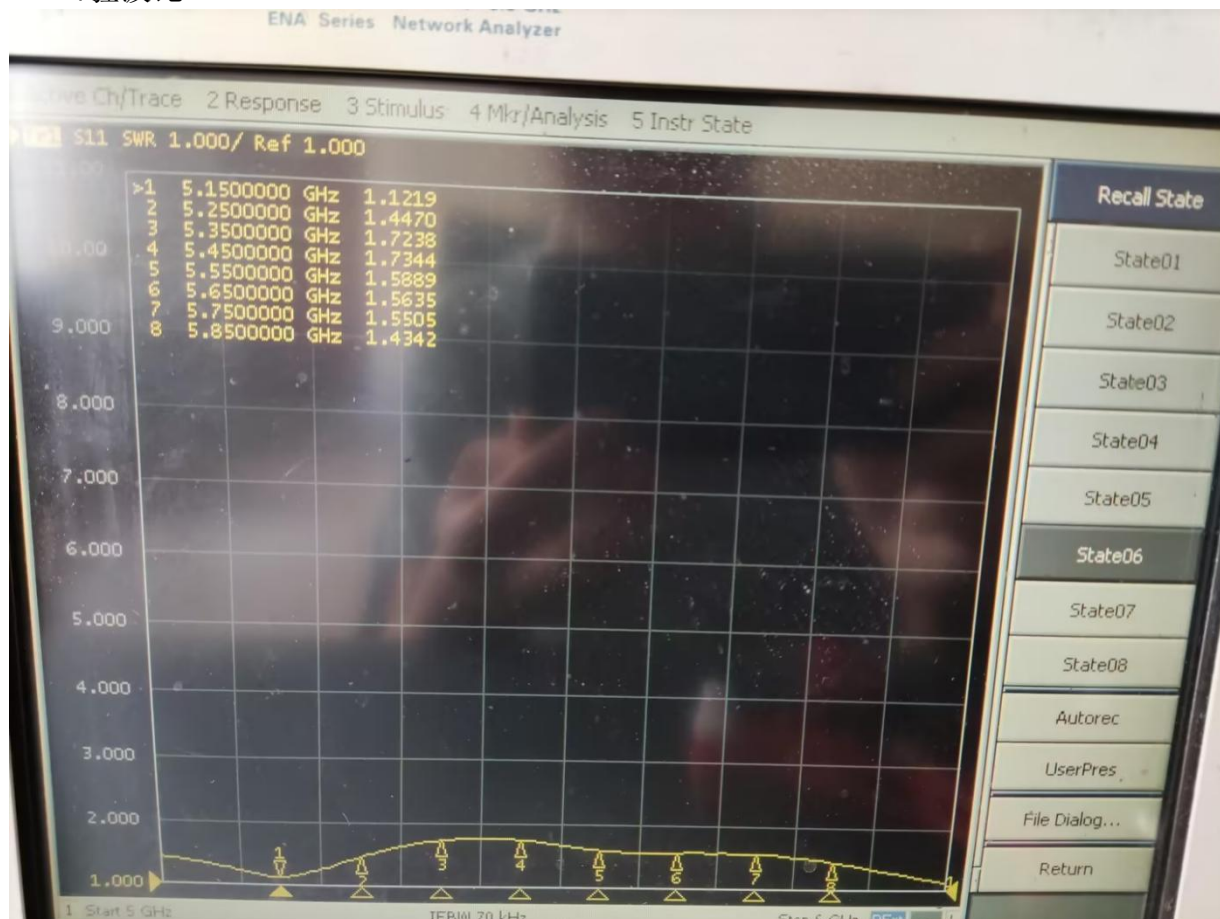
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3.2 VSWR/驻波比:



3.3. Efficiency And Gain/效率和增益

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	42.27	3.2
5200	42.56	3.39
5250	43.36	3.4
5300	42.02	3.2
5350	47.33	2.97
5400	45.89	3.02
5450	44.2	2.33
5500	46.22	2.62
5550	45.65	2.36
5600	45.73	2.13
5650	44.99	2.91
5700	46.81	2.25
5750	45.97	2.14
5800	46.31	2.35
5850	44.51	2.57



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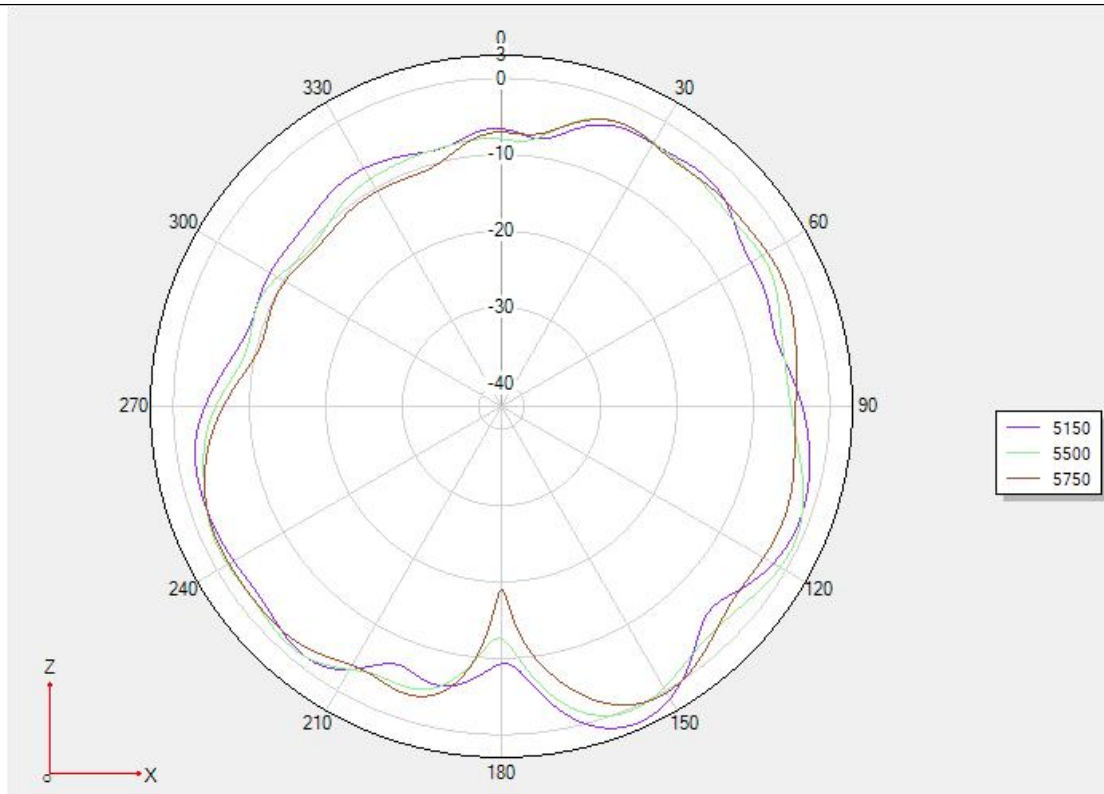
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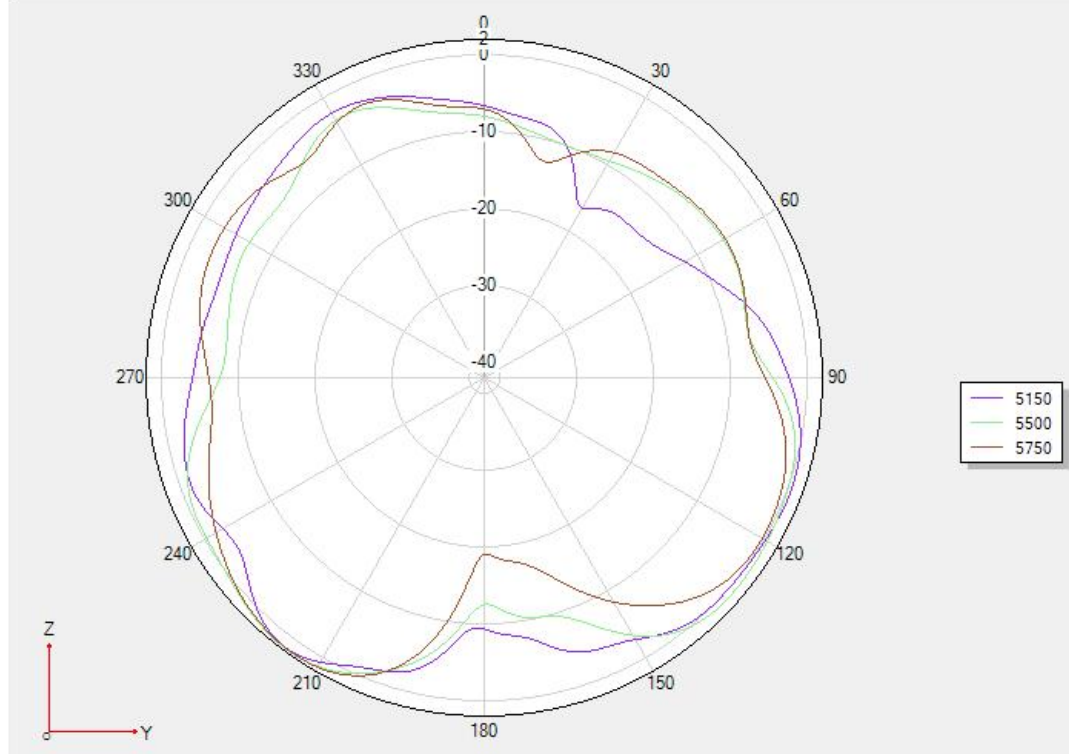
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3.4 2D & 3D PHOTO

PHi 0° 方向图



PHi 90° 方向图





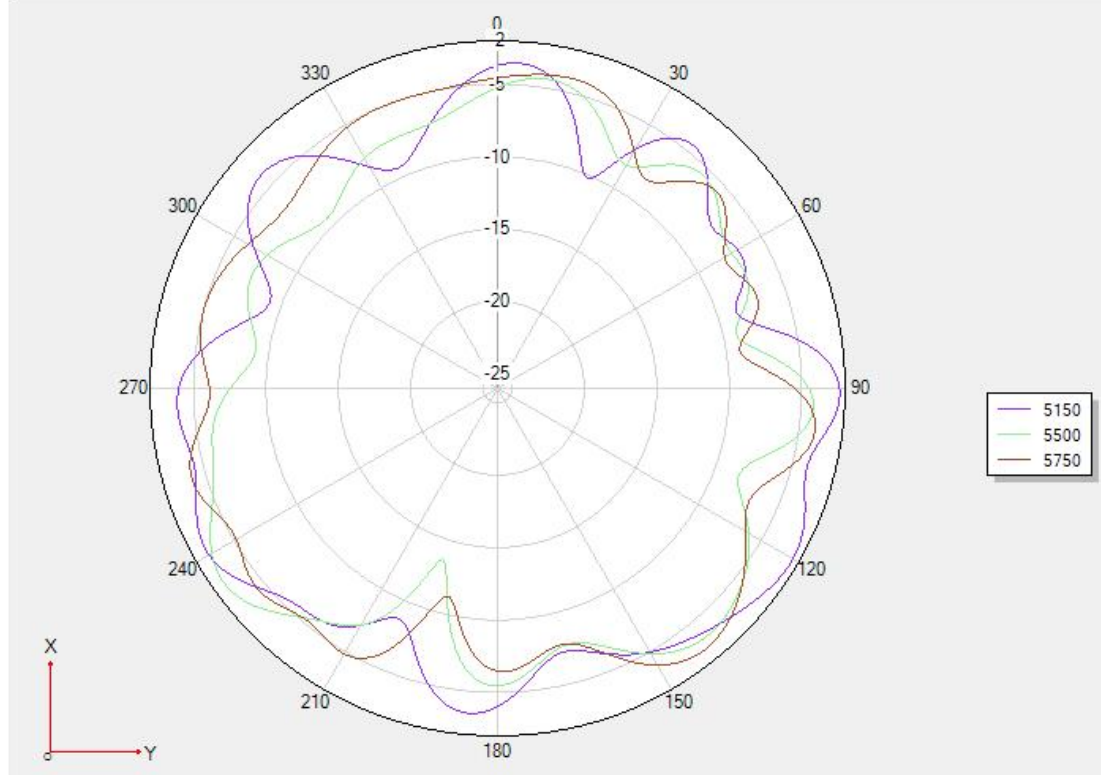
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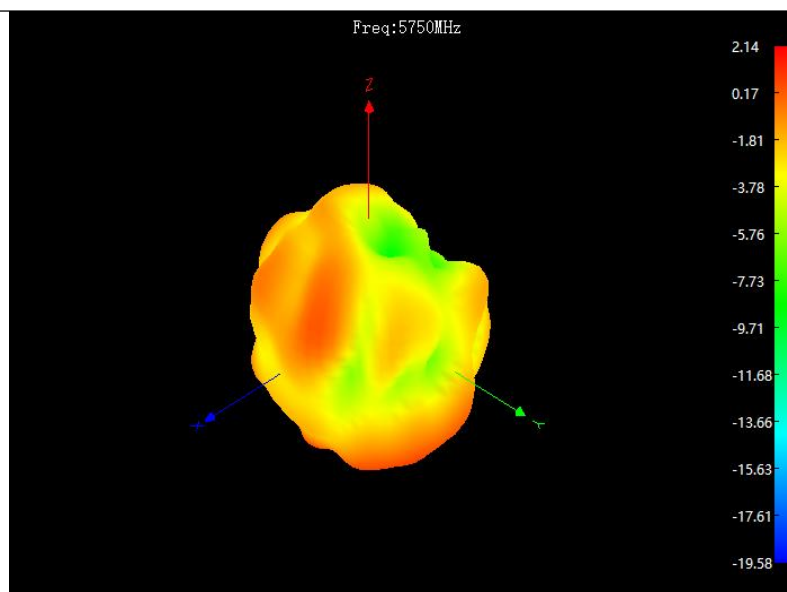
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Theta 90°
方向图



3D 方向图
(3D
Pattern)





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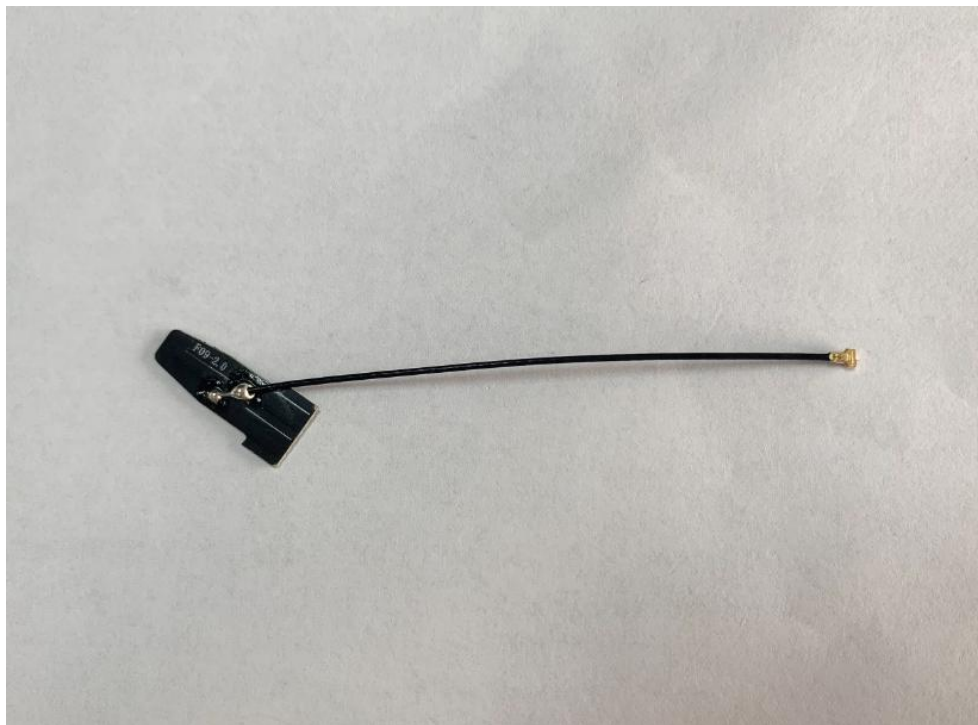
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4. Product photo/产品实物图片:





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5.Product structure diagram/产品结构图:

