



深圳市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<br>Customer       | 亿莱顿                             | 日期<br>Data           | 2026/04/13 |
| 产品名称<br>Product        | WIFI/BT主天线                      | 客户机型<br>Models       | KDS1585    |
| 料号<br>P/N              | F1574A-21LB-175                 | 客户料号<br>Customer P/N |            |
| 规格描述<br>Specifications | 黑色FPC; MI-113一代端子黑色同轴线, L=175mm |                      |            |

|                                                                                    |                                |
|------------------------------------------------------------------------------------|--------------------------------|
| 供应商承认签印<br>Vender Approved By                                                      | 客户承认签印<br>Customer Approved By |
|  |                                |
| Checked By:                                                                        | Checked By:                    |
| Audit By:                                                                          | Audit By:                      |
| Approval By:                                                                       | Approval By:                   |

### 文件修订履历表

| 版本<br>Version | 修订内容<br>Revise The Content | 修订人<br>Revused | 核准<br>Approval | 修订日期<br>Date | 备注<br>Note |
|---------------|----------------------------|----------------|----------------|--------------|------------|
|               |                            |                |                |              |            |
|               |                            |                |                |              |            |
|               |                            |                |                |              |            |

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## Specification

### 1.1 Electrical Properties

| Characteristics | Specifications            |
|-----------------|---------------------------|
| Working Band    | 2.4G WiFi/BT;<br>5G WiFi  |
| Antenna From    | PIFA                      |
| Impedance       | 50 $\Omega$               |
| Polarization    | Linear                    |
| Peak Effi       | 45%@2.4G;<br>38%@5G       |
| Peak Gain       | 1.2dBi@2.4G;<br>3.0dBi@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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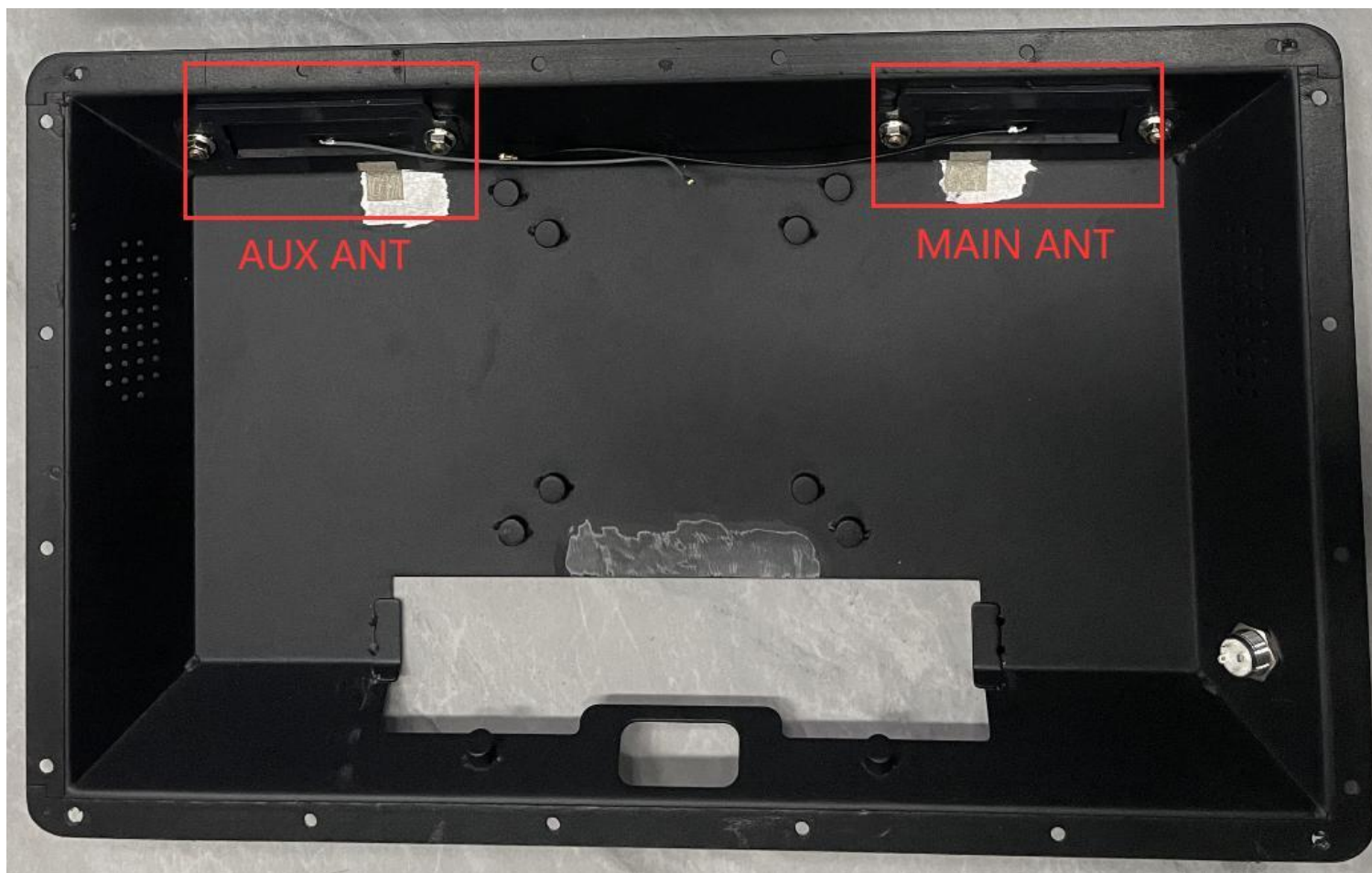
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## Antenna Placement



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## Test Data

### WiFi Active test data

| 802.11b | Frequency | TRP          |       | TIS          |        |
|---------|-----------|--------------|-------|--------------|--------|
|         | 2412      | CH1 11Mbps   | 10.97 | CH1 11Mbps   | -77.85 |
|         | 2437      | CH6 11Mbps   | 10.66 | CH6 11Mbps   | -76.23 |
|         | 2467      | CH11 11Mbps  | 10.83 | CH11 11Mbps  | -77.34 |
| 802.11g |           | TRP          |       | TIS          |        |
|         | 2412      | CH1 54Mbps   | 11.42 | CH1 54Mbps   | -65.36 |
|         | 2437      | CH6 54Mbps   | 11.39 | CH6 54Mbps   | -64.93 |
|         | 2467      | CH11 54Mbps  | 11.52 | CH11 54Mbps  | -65.51 |
| 802.11n |           | TRP          |       | TIS          |        |
|         | 2412      | CH1 MCS7     | 11.98 | CH1 MCS7     | -63.50 |
|         | 2437      | CH6 MCS7     | 11.87 | CH6 MCS7     | -63.88 |
|         | 2467      | CH11 MCS7    | 11.72 | CH11 MCS7    | -64.42 |
| 802.11a |           | TRP          |       | TIS          |        |
|         | 5180      | CH36 54Mbps  | 13.17 | CH36 54Mbps  | -70.91 |
|         | 5300      | CH60 54Mbps  | 13.31 | CH60 54Mbps  | -71.75 |
|         | 5805      | CH161 54Mbps | 13.22 | CH161 54Mbps | -72.42 |

### WIFI/BT Measured

#### WIFI

测试环境：开放空间

测试工具：Wifi Analytical Assistant

测试距离：10/m

信号强度：2.4G :-49dBm 5G:-50dBm

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。

| 名称               | 设备                | 强度  | 频率   | 信道  |
|------------------|-------------------|-----|------|-----|
| XYC2025          | c4:b2:5b:28:ee:de | -33 | 5260 | 52  |
| —                | c6:b2:5b:88:ee:de | -45 | 2412 | 1   |
| —                | c4:b2:5b:29:29:ef | -53 | 5805 | 161 |
| —                | c6:b2:5b:89:29:ef | -61 | 2412 | 1   |
| < Hidden SSID >  | c6:b2:5b:58:ee:de | -34 | 5260 | 52  |
| < Hidden SSID >  | c6:b2:5b:d8:ee:de | -45 | 2412 | 1   |
| < Hidden SSID >  | c6:b2:5b:59:29:ef | -48 | 5805 | 161 |
| XYC2023          | 70:85:c4:73:7d:ad | -49 | 2437 | 6   |
| < Hidden SSID >  | 72:85:c4:d3:7d:ad | -49 | 5300 | 60  |
| < Hidden SSID >  | 72:85:c4:53:7d:ad | -50 | 2437 | 6   |
| XYC2023_5G       | 72:85:c4:93:7d:ad | -50 | 5300 | 60  |
| ChinaNet-2jvE    | TIANYI COMHEART   | -54 | 2427 | 4   |
| @PHICOMM_60      | Phicomm           | -55 | 2427 | 4   |
| NETGEAR95-5G     | 6c:cd:d6:07:22:e7 | -61 | 5220 | 44  |
| @PHICOMM_60_5G   | Phicomm           | -64 | 5220 | 44  |
| XYC2025-5G       | TP-LINK           | -66 | 5200 | 40  |
| HUAWEI-1F33TW_5G | 02:a3:26:30:52:c6 | -69 | 5220 | 44  |
| XYC2025-1        | TP-LINK           | -70 | 2442 | 7   |
| NETGEAR95        | 6c:cd:d6:07:22:e8 | -70 | 2457 | 10  |
| HUAWEI-1F33TW    | 02:a3:26:30:52:c2 | -73 | 2462 | 11  |
| < Hidden SSID >  | c8:cd:55:74:1d:24 | -74 | 5280 | 56  |
| Lingyan          | f4:84:8d:ce:4b:2e | -76 | 2437 | 6   |
| —                | f4:84:8d:ce:49:7a | -80 | 2437 | 6   |
| hjjw             | a0:10:77:0f:74:8e | -80 | 2437 | 6   |

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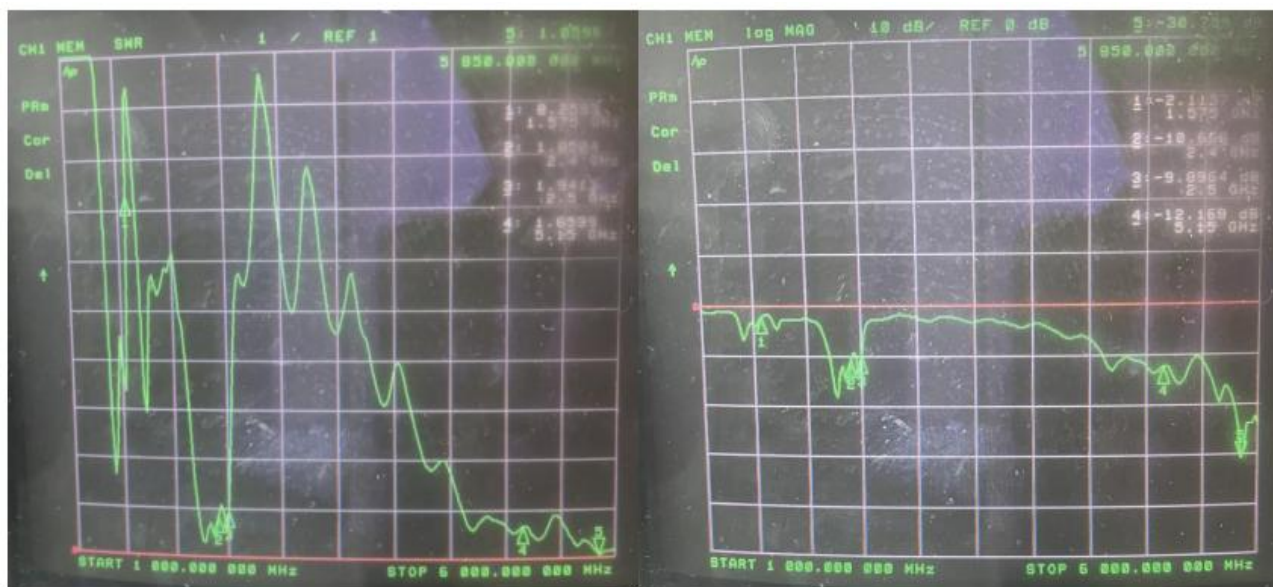
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### S11 Parameter-VSWR



| Frequency(MHZ)  | 2400   | 2500  | 5150   | 5850   |
|-----------------|--------|-------|--------|--------|
| VSWR            | 1.82   | 1.94  | 1.65   | 1.05   |
| Return Loss(DB) | -10.66 | -9.89 | -12.16 | -30.75 |

### Efficiency Table (2.4G)

#### Passive Test For WIFI2.4

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHIS<br>(%) |
|---------------|-------------|--------------|---------------|---------------|------------|-------------|
| 2400          | 41          | -3.87        | 0.85          | -1.3          | 25.543     | 15.457      |
| 2410          | 38.94       | -4.1         | 0.73          | -1.42         | 24.176     | 14.767      |
| 2420          | 38.35       | -4.16        | 0.76          | -1.39         | 23.907     | 14.447      |
| 2430          | 41.69       | -3.8         | 1.16          | -0.99         | 26.137     | 15.551      |
| 2440          | 44          | -3.57        | 1.42          | -0.73         | 27.789     | 16.209      |
| 2450          | 41.56       | -3.81        | 1.13          | -1.02         | 26.351     | 15.207      |
| 2460          | 38.98       | -4.09        | 0.77          | -1.38         | 24.728     | 14.255      |
| 2470          | 43.76       | -3.59        | 1.21          | -0.94         | 27.697     | 16.06       |
| 2480          | 44.64       | -3.5         | 1.2           | -0.95         | 28.131     | 16.511      |
| 2490          | 42.48       | -3.72        | 0.92          | -1.23         | 26.579     | 15.901      |
| 2500          | 45.63       | -3.41        | 1.16          | -0.99         | 28.222     | 17.405      |

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Efficiency Table (5G)

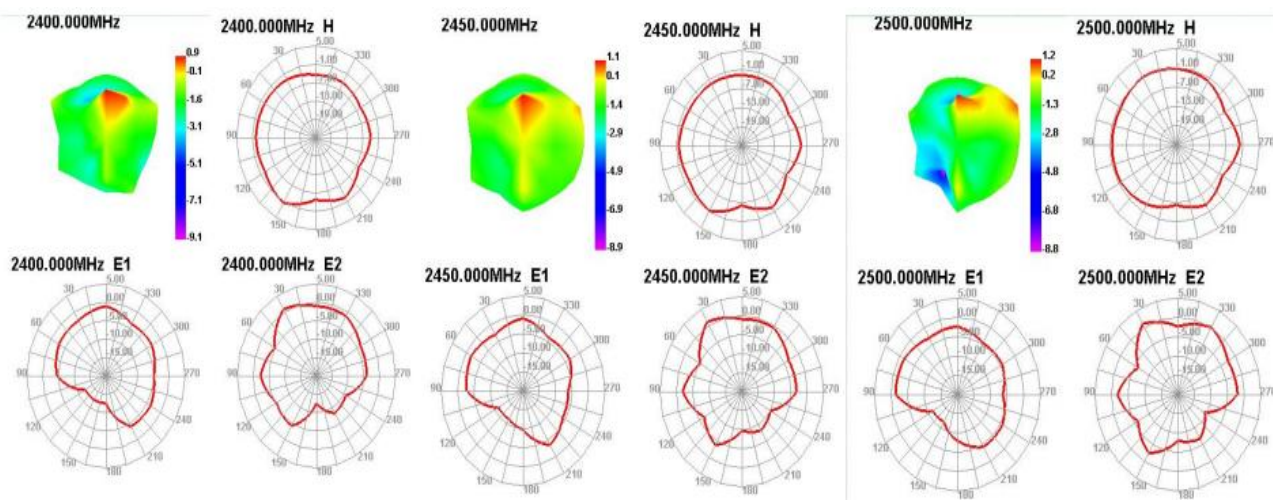
Passive Test For WIFI5G

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) |
|---------------|-------------|--------------|---------------|---------------|------------|------------|
| 5150          | 34.98       | -4.56        | 2.86          | 0.71          | 16.078     | 18.901     |
| 5170          | 34.27       | -4.65        | 2.7           | 0.55          | 15.836     | 18.434     |
| 5190          | 36.47       | -4.38        | 2.77          | 0.62          | 17.192     | 19.273     |
| 5210          | 34.69       | -4.6         | 2.35          | 0.2           | 16.631     | 18.056     |
| 5230          | 33.03       | -4.81        | 2.09          | -0.06         | 15.812     | 17.219     |
| 5250          | 31.56       | -5.01        | 1.81          | -0.34         | 15.053     | 16.509     |
| 5270          | 35.75       | -4.47        | 2.26          | 0.11          | 17.154     | 18.599     |
| 5290          | 31.82       | -4.97        | 1.79          | -0.36         | 15.447     | 16.377     |
| 5310          | 34.41       | -4.63        | 2.23          | 0.08          | 16.699     | 17.707     |
| 5330          | 31.24       | -5.05        | 1.87          | -0.28         | 15.115     | 16.122     |
| 5350          | 33.51       | -4.75        | 2.16          | 0.01          | 16.475     | 17.033     |
| 5370          | 32.58       | -4.87        | 2.1           | -0.05         | 16.209     | 16.375     |
| 5390          | 34.28       | -4.65        | 2.38          | 0.23          | 17.041     | 17.234     |
| 5410          | 32.56       | -4.87        | 2.27          | 0.12          | 15.977     | 16.578     |
| 5430          | 35.4        | -4.51        | 2.83          | 0.68          | 17.368     | 18.028     |
| 5450          | 34.24       | -4.65        | 2.66          | 0.51          | 16.929     | 17.31      |
| 5470          | 34.9        | -4.57        | 2.77          | 0.62          | 17.336     | 17.559     |
| 5490          | 36.71       | -4.35        | 3.02          | 0.87          | 18.257     | 18.453     |
| 5510          | 36.34       | -4.4         | 2.88          | 0.73          | 18.197     | 18.146     |
| 5530          | 37.16       | -4.3         | 2.72          | 0.57          | 18.846     | 18.316     |
| 5550          | 37.77       | -4.23        | 2.49          | 0.34          | 19.38      | 18.385     |
| 5570          | 37.79       | -4.23        | 2.32          | 0.17          | 19.452     | 18.341     |
| 5590          | 38.02       | -4.2         | 2.05          | -0.1          | 19.86      | 18.164     |
| 5610          | 36.94       | -4.33        | 1.68          | -0.47         | 19.544     | 17.394     |
| 5630          | 35.46       | -4.5         | 1.31          | -0.84         | 18.887     | 16.574     |
| 5650          | 34.9        | -4.57        | 1.24          | -0.91         | 18.582     | 16.314     |
| 5670          | 36.88       | -4.33        | 1.42          | -0.73         | 19.674     | 17.209     |
| 5690          | 31.73       | -4.99        | 0.76          | -1.39         | 17.065     | 14.663     |
| 5710          | 36          | -4.44        | 1.2           | -0.95         | 19.368     | 16.635     |
| 5730          | 31.48       | -5.02        | 1.02          | -1.13         | 16.945     | 14.534     |
| 5750          | 34.75       | -4.59        | 1.56          | -0.59         | 18.688     | 16.063     |
| 5770          | 32.49       | -4.88        | 1.3           | -0.85         | 17.535     | 14.957     |
| 5790          | 32.19       | -4.92        | 1.5           | -0.65         | 17.473     | 14.72      |
| 5810          | 30.79       | -5.12        | 1.45          | -0.7          | 16.802     | 13.991     |
| 5830          | 31.36       | -5.04        | 1.67          | -0.48         | 17.414     | 13.948     |
| 5850          | 31.32       | -5.04        | 1.71          | -0.44         | 17.594     | 13.728     |

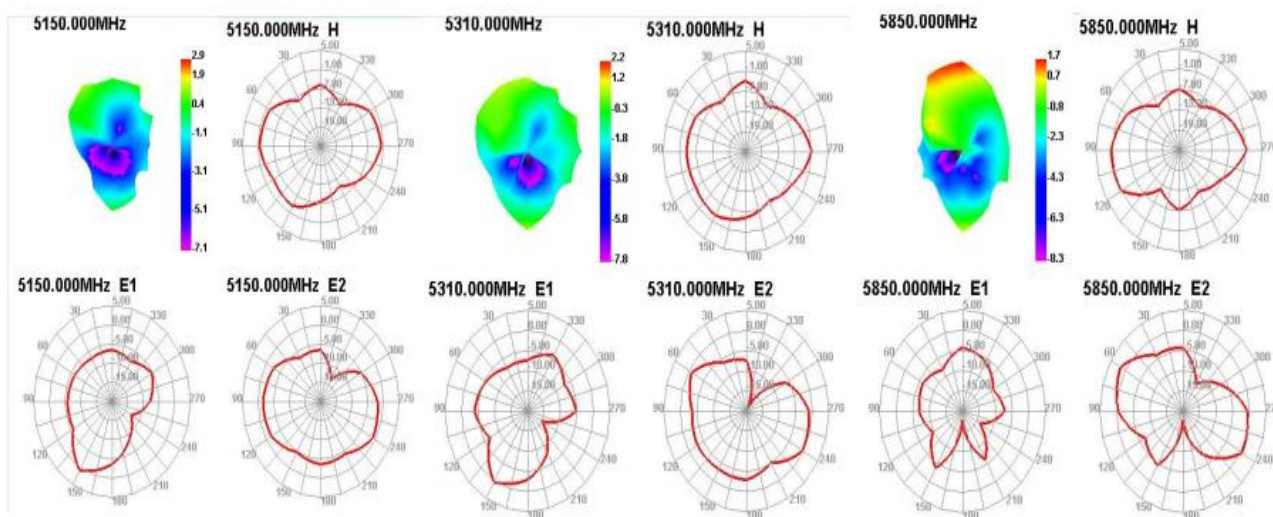
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## Radiation Pattern(2.4G)



## Radiation Pattern(5G)



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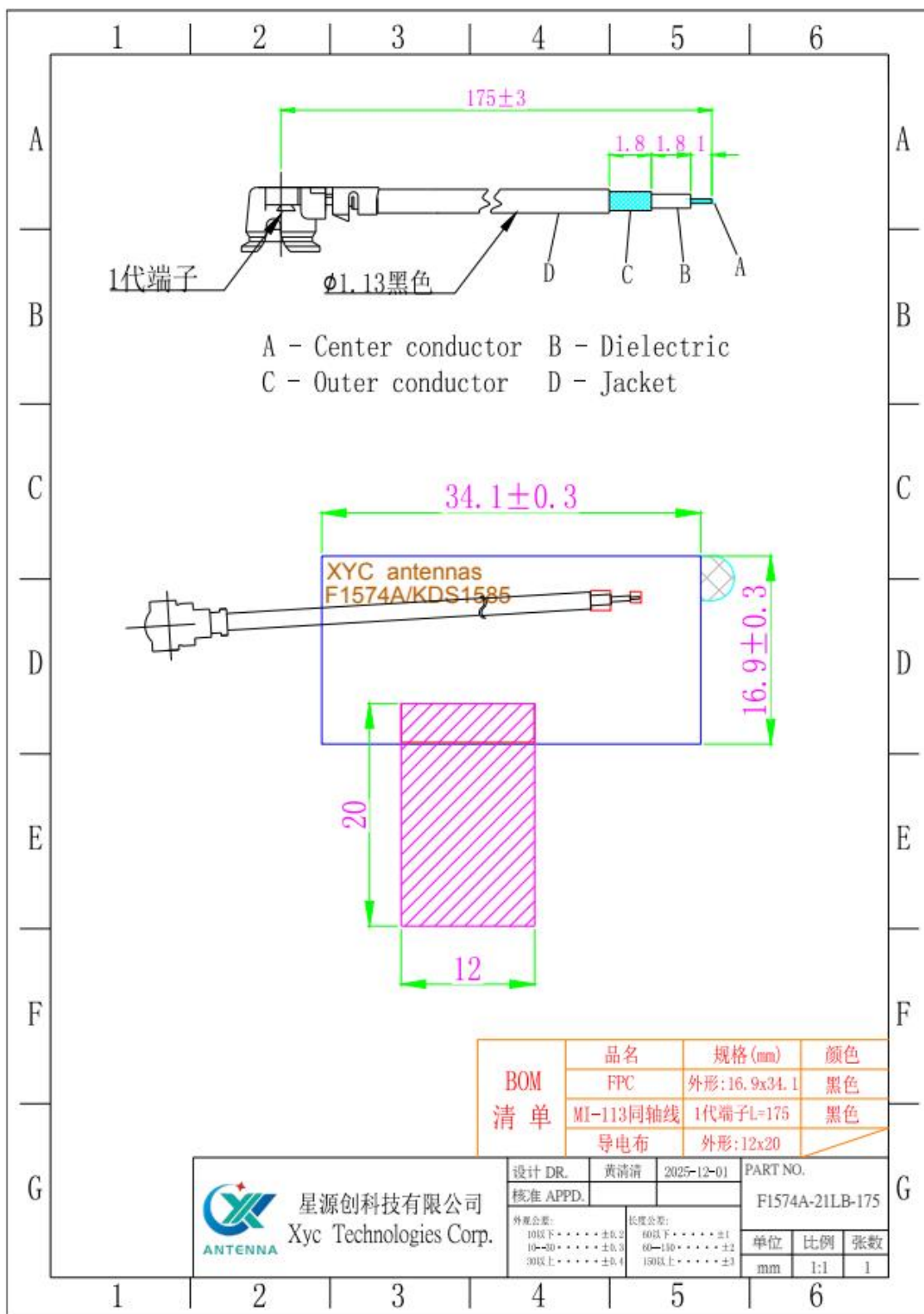
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### Antenna Assembly



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