

# APPROVAL SHEET

Supplier name: Guangzhou Vision enthalpy Technology Co., LTD

Supplier material name: Coaxial cable antenna, 2.4~2.5GHz, 1dBi, 1dBi, 27.67×8.42mm, 240mm, Black, IPEX 1, FPC, 1COAX, 3M9471 Double-sided tape, Black coaxial line, SHKJ, SHKJ

CVTE Item number: 004.032.0053119

Admission edition: A0

Drawing version number (no drawing): A0

| Supplier acknowledgement column |                       |        |
|---------------------------------|-----------------------|--------|
| lay down                        | examine and<br>verify | ratify |
| Jack                            | Lucy                  |        |

Supplier Address: Room 202, Building B, No. 238 Spectral East Road, Huangpu District, Guangzhou City

telephone:

portraiture:

Note: Supplier commitment and confirmation, Suppliers to Guangzhou bin electronic technology Co., Ltd., and its affiliated companies (including but not limited to Guangzhou visual source electronic Technology Co., Ltd., Guangzhou electronic Technology Co., Ltd., Guangzhou into information technology Co., Ltd., Guangzhou, medical equipment technology Co., Ltd., Guangzhou yi intelligent electronic technology Co., Ltd., Guangzhou farce ear acoustic technology Co., Ltd., Guangzhou rui xin electronic Technology Co., Ltd., Qingdao source dynamic wisdom sports technology Co., Ltd., Guangzhou radium morning automatic control technology Co., Ltd., Guangzhou Liuhuan Information Technology Co., Ltd.) (known as "CVTE") supply of materials, Are able to meet the standards stipulated in this admission, Without the supplier. The scanned copy, photocopy and faxed copy of this admission letter shall have the same legal effect as the original copy.

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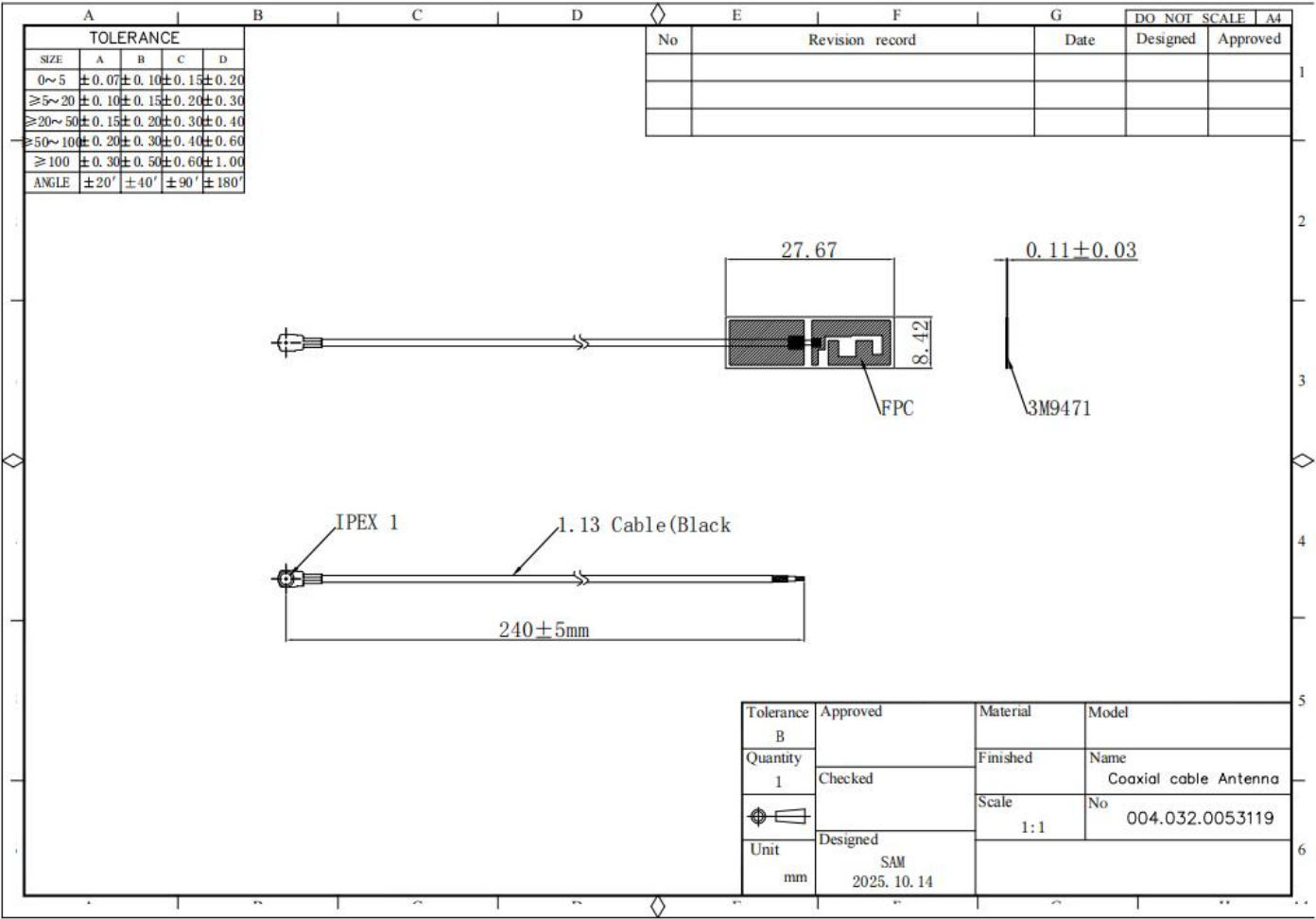
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| Document revision resume form |            |                                   |          |                   |
|-------------------------------|------------|-----------------------------------|----------|-------------------|
| Edition                       | Date       | Develop / Modify / Repeal content | Lay Down | Approval          |
| A/0                           | 2025-11-19 | New Edition                       | Yue Ting | Feng<br>Xianqiang |
|                               |            |                                   |          |                   |
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2. Product Photos



3. Product Drawings, Specifications



4. performance Parameter

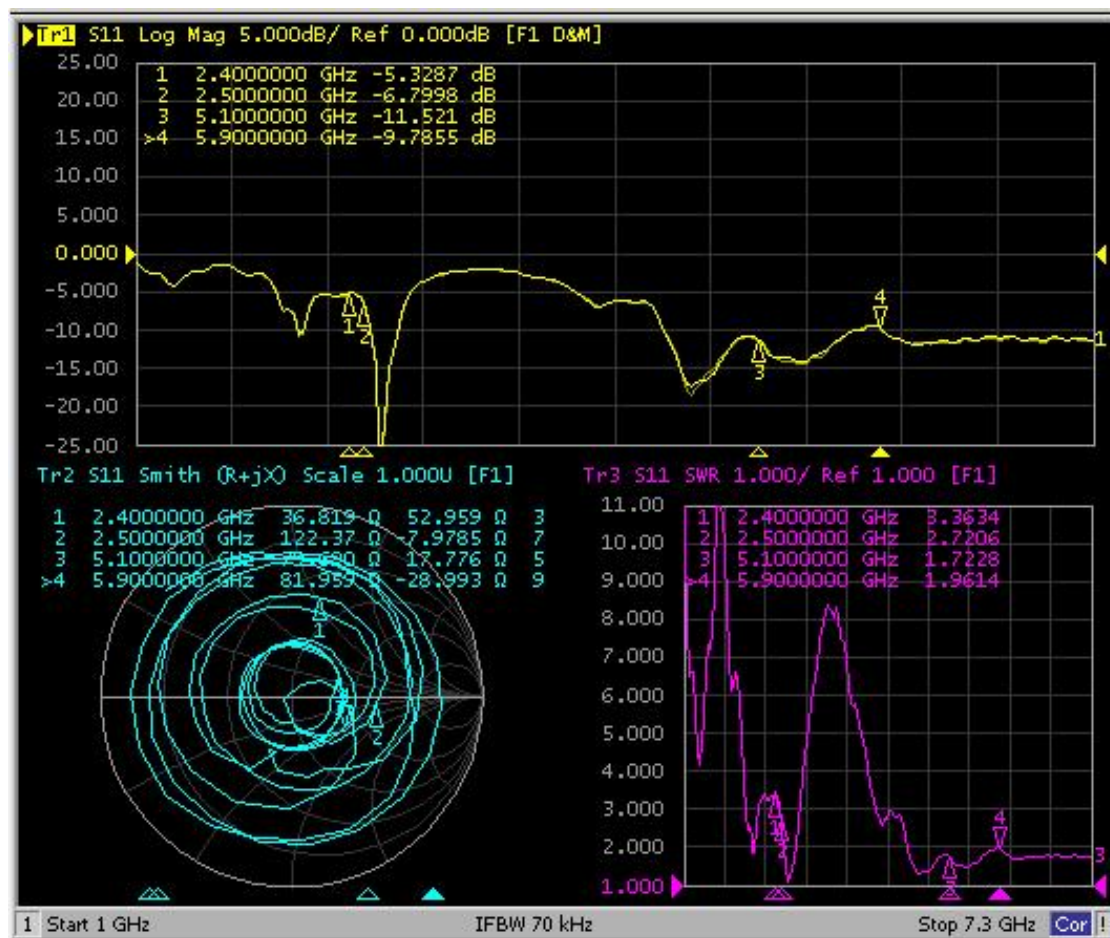
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## 4-1 Performance Parameters

| Electrical Parameters      |                            |
|----------------------------|----------------------------|
| Frequency Range            | 2.4-2.5GHz                 |
| Input Impedence            | 50 $\Omega$                |
| Standing-wave Ratio        | Refer to samples           |
| Gain                       | /                          |
| Power Capacity             | 1W                         |
| Through The Test           | /                          |
| Polarization Mode          | /                          |
| Radiation Direction        | /                          |
| Connector Model            | I-PEX 1                    |
| Mechanical Parameters      |                            |
| Terminal Maintenance Force | /                          |
| Antenna Material           | FPC                        |
| Coax                       | 1.13 Coaxial cable (Black) |
| Salt Spray Test            | 24H                        |
| Enviromental Parameter     |                            |
| Working Temperature        | -30℃~65℃                   |

## 4-2 Performance Test

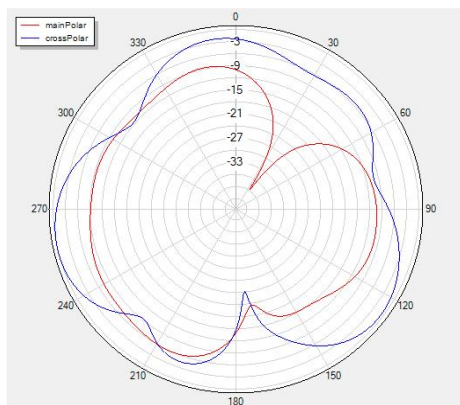
S11



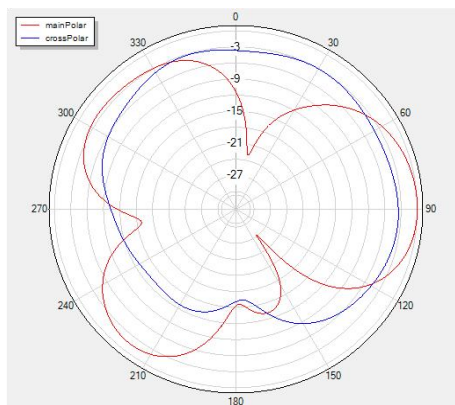
## 4-3 Antenna Efficiency

| frequency<br>(MHz) | gain<br>(dBi) | efficiency<br>(dB) | efficiency<br>(%) |
|--------------------|---------------|--------------------|-------------------|
| 2400               | 1.73          | -3.91              | 40.61             |
| 2410               | 1.97          | -3.58              | 43.89             |
| 2420               | 1.9           | -3.54              | 44.25             |
| 2430               | 1.92          | -3.33              | 46.45             |
| 2440               | 2.15          | -3.12              | 48.7              |
| 2450               | 2.27          | -2.93              | 50.97             |
| 2460               | 2.33          | -2.84              | 52                |
| 2470               | 2.56          | -2.99              | 50.26             |
| 2480               | 2.7           | -2.92              | 51.09             |
| 2490               | 2.82          | -2.52              | 56.03             |
| 2500               | 2.9           | -2.25              | 59.52             |

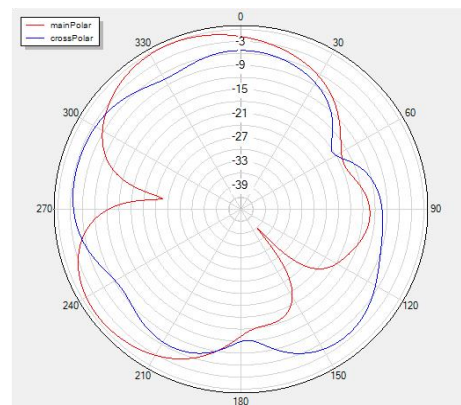
Phi=90 freq=2480MHz



Phi=0 freq=2480MHz

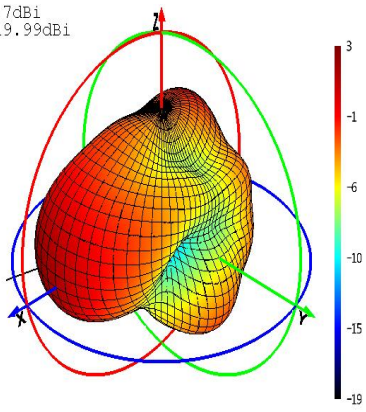


Theta=90 freq=2480MHz



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MAX: 2.7dBi  
MIN: -19.99dBi



## 5. Packaging Standard

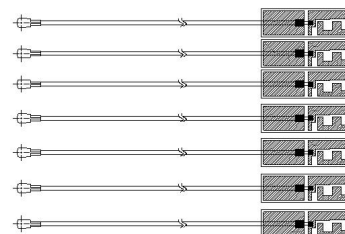
Product Material No. :004.032.0053119

Coaxial cable antenna, 2.4~2.5GHz, 1dBi, 1dBi, 27.67×8.42mm,  
240mm, Black, IPEX 1, FPC, 1COAX, 3M9471 Double-sided tape, Black coaxial line, SHKJ, SHKJ

### li. Packaging requirements and operation instructions:

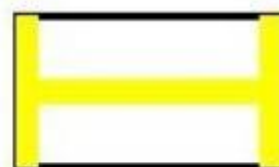
#### 1. Internal packaging:

Product 50 PCS into the small PE bag

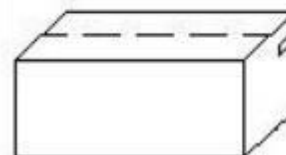


#### 2. Packaging:

Quantity / box according to the actual packing



纸箱



#### matters need attention:

1. Whether to add a partition board, pearl cotton;
2. Attachment of labels, such as ROHS;

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## 6. Reliability test report

### 6-1. Reliability test standards

| test item |                                   | test method                                                                     | acceptance standard                                                               | Judgment results |
|-----------|-----------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|
| 1         | V . S . W . R                     | Set the network analyzer parameters for testing                                 | According to the specifications to be tested                                      | <b>P ASS</b>     |
| 2         | Plug in damage                    | Set the network analyzer parameters for testing                                 | According to the specifications to be tested                                      | <b>P ASS</b>     |
| 3         | salt atmosphere                   | Temperature 35° C<br>humidity 95% saline concentration 5%;<br>test for 24 hours | After 2H, there was no obvious bad appearance:<br>frequency offset of 5%          | <b>P ASS</b>     |
| 4         | constant temperature and humidity | Temperature 80° C test 12H to-40° C<br>Test 12H: Humidity 90%: Test 24 hours    | After 2H, there was no obvious bad appearance:<br>frequency offset of 5%          | <b>P ASS</b>     |
| 5         | strain relief test                | Tometer test product connector and terminal tension greater than; 1 Kgf         | Visual inspection / measurement meets SOP requirements, no shedding, poor contact | <b>PASS</b>      |

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## 7. Disabled Material Guarantee

### 禁用物质保证(Certification of Restricted Substance)

我方保证所提供的物料，完全遵守签核的广州视源电子科技股份有限公司/或其子公司的质量和环保协议中的各项条款，物料中禁用物含量，符合最新版《有害物质管理规范》中的各项标准。

We hereby certify that all the Material fully conform to the requirements of the ShiRuan/or its affiliated companies Declaration of Conformity that had been signed, and the maximum concentration value of restricted substance in Materials comply with the latest 《Regulations on the management of hazardous substances.》

公司盖章

8. Raw Material Test List

| 原材料测试清单<br>Raw Material Test List                                                                                                                                                                                                                                                     |                              |                                        |                                      |                        |           |           |                   |                     |                           |                              |                    |                    |                               |                     |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|--------------------------------------|------------------------|-----------|-----------|-------------------|---------------------|---------------------------|------------------------------|--------------------|--------------------|-------------------------------|---------------------|----------------|
| 客户编码 (Customer P/N): 004_032_0053119                                                                                                                                                                                                                                                  |                              |                                        |                                      | 物料名称 (Part Name) 同轴线天线 |           |           |                   |                     |                           | 供应商 (Vendor)                 |                    | 供应商料号 (Vendor P/N) |                               |                     |                |
| No<br>(序号)                                                                                                                                                                                                                                                                            | Raw Material<br>Name (原材料名称) | Raw Material<br>description<br>(原材料描述) | Raw Material<br>Supplier<br>(原材料供应商) |                        |           |           |                   |                     |                           |                              |                    | Test Lab<br>检测机构   | Test Report Number<br>(检测报告号) | Test Date<br>(测试日期) | Remark<br>(备注) |
|                                                                                                                                                                                                                                                                                       |                              |                                        |                                      | Pb (铅)                 | Cd<br>(镉) | Hg<br>(汞) | Cu+6<br>(六价<br>铜) | PBBs<br>(聚溴<br>化合物) | PBDEs<br>(聚溴<br>化合物<br>酯) | 邻苯二甲酸二<br>(2-乙基己)酯<br>(DEHP) | 邻苯二甲酸二<br>丁酯 (DBP) |                    |                               |                     |                |
|                                                                                                                                                                                                                                                                                       |                              | ED: Cu                                 | SUZHOU<br>SERENGETI                  | N.D                    | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2024/12/20          |                |
|                                                                                                                                                                                                                                                                                       | FPC-ANT                      | Solder<br>Mask                         | UNITES<br>CHEMICAL                   | N.D                    | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2025/5/20           |                |
|                                                                                                                                                                                                                                                                                       |                              | 9471                                   | 3M                                   | N.D                    | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2024/12/6           |                |
|                                                                                                                                                                                                                                                                                       | RF<br>Connector              | C5210                                  | FUJIAN ZHJIN                         | 4                      | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2025/1/8            |                |
|                                                                                                                                                                                                                                                                                       |                              | Ni                                     | tonghua                              | 41                     | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2025/7/28           |                |
|                                                                                                                                                                                                                                                                                       |                              | Au                                     | tonghua                              | 15                     | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2025/7/28           |                |
|                                                                                                                                                                                                                                                                                       | Coaxial cable                | RF1.13                                 | tian mai                             | N.D                    | N.D       | N.D       | N.D               | N.D                 | N.D                       | N.D                          | N.D                | N.D                | N.D                           | 2025/7/30           |                |
| 上述均质材料如果属非金属，还需回答三个问题：<br>①是否含卤素： <input checked="" type="checkbox"/> 含有YES <input type="checkbox"/> 不含有NO<br>②是否含红磷： <input type="checkbox"/> 含有YES <input checked="" type="checkbox"/> 不含有NO<br>③是否含三氧化二锡： <input type="checkbox"/> 含有YES <input checked="" type="checkbox"/> 不含有NO |                              |                                        |                                      |                        |           |           |                   |                     |                           |                              |                    |                    |                               |                     |                |