

# 天线规格书

## Antenna specification

|                            |   |
|----------------------------|---|
| 制造商名称:<br>Manufacturer:    | 万物相连通讯襄阳有限公司<br>All things connected Communications Xiangyang Limited |
| 供应商名称<br>Supplier::        | 万物相连通讯襄阳有限公司<br>All things connected Communications Xiangyang Limited |
| 产品名称:<br>Part Description: | PCB Antenna   |
| 规格型号:<br>Model No:         | WWXL6008632   |
| 物料编码:<br>Cust P/N:         | 360100297   |
| 日期:<br>Issued Date:        | 2022. 03. 26  |

## 一、Product pictures产品



## 二、Test parameters产品测试参数

|  |                        |                                    |  |
|--|------------------------|------------------------------------|--|
| 产品名称Name内置天线 (WWXL6008632)                 |                        | 型号 ModelType WWXL-U 2400/5850-1235 |  |
| 电气参数ELECTRICAL SPECTFICATIONS              |                        | 机械参数 MECHANICAL SPECTFICATIONS     |  |
| 频率范围 FrequencyRange 2400-2500/5150-5850MHz |                        | 尺寸Dimensions                       | 38*9.7*0.4mm                                   |
| 输入阻抗 Impedance                             | 50 $\Omega$            | 连接器型号Connector                     | IPEX   |
| 驻波比 VSWR                                   | $\leq 2.5$             | 线长linelength                       | 120+1.5mm<br>1.13 Low loss line grey<br>低损耗线灰色 |
| 增益 Gain                                    | $\leq 2$ dBi           | 效率 Efficiency                      | $\geq 50\%$                                    |
| 极化方式 Polarization                          | linear Vertical<br>线极化 | 工作温度WorkingTemperature             | -45 $^{\circ}$ C - +85 $^{\circ}$ C            |
| 辐射方向 Radiation                             | Omnidirectional<br>全向  | 存放温度Limit Temperature              | -45 $^{\circ}$ C - +85 $^{\circ}$ C            |

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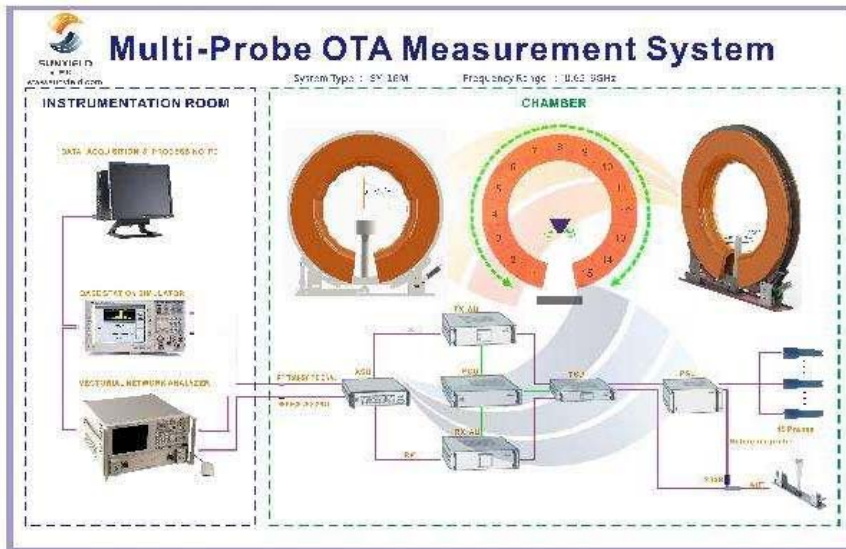
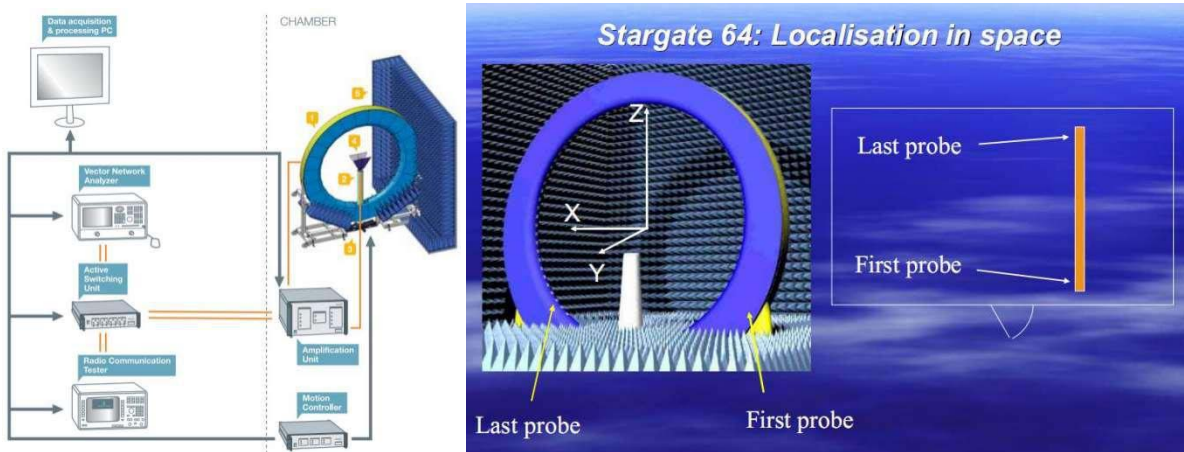
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### 三、Antenna test environment 天线测试环境



|                           |  |
|---------------------------|--|
| test macro 测试系统:          | SY-16M Antenna measurement system 天线测量系统   |
| testing environment 测试环境: | temperature 温度 22°C ± 3°C, humidity 湿度 50% ± 15%   |
| testing equipment 测试设备:   | Agilent 5071C<br>Agilent 8960 Comprehensive measuring instrument 综测仪<br>Agilent CMW500 4G Comprehensive measuring instrument 综测仪 |

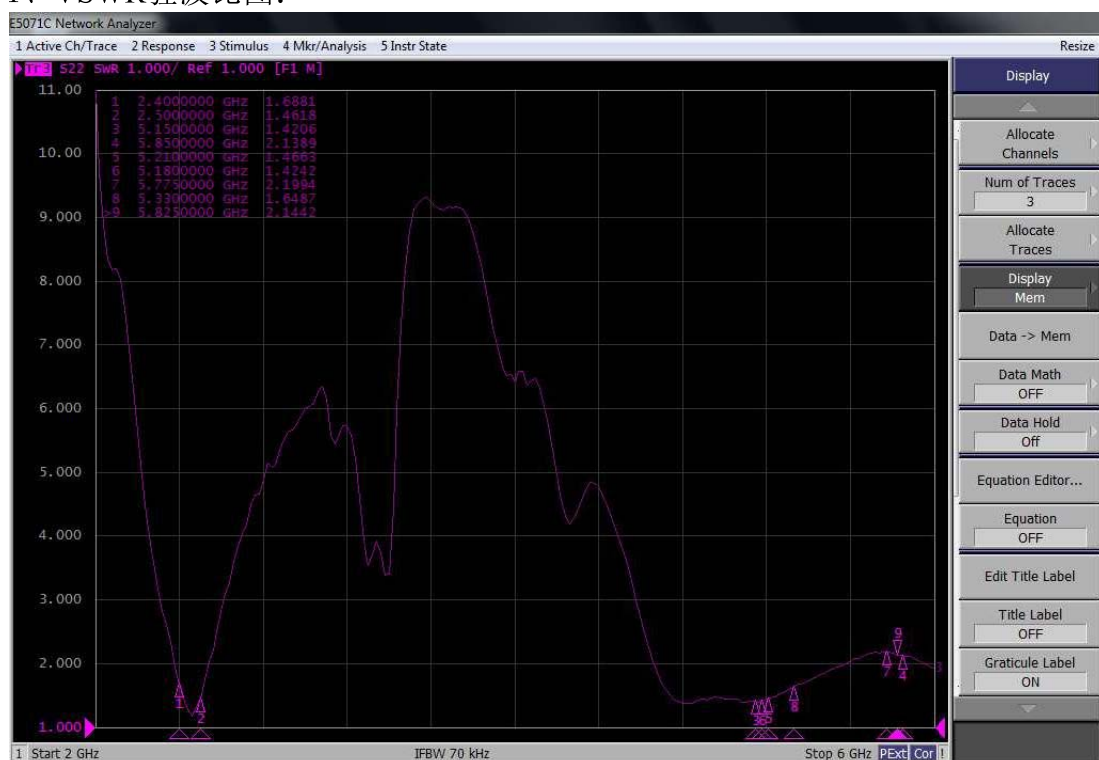
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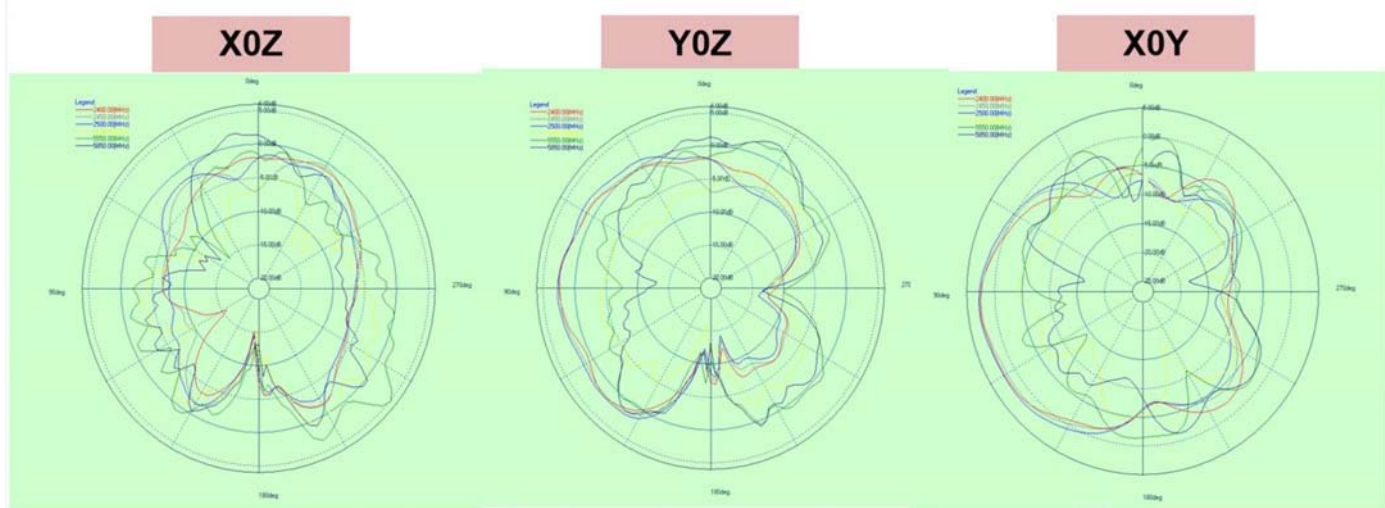
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#### 四、Antenna Passive Parameters 天线无源参数:

##### 1、VSWR驻波比图:



##### 2、2D directional diagram 2D方向图: Unit: dBi



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## 五、Product characteristics产品特点

1. Choose high-quality RF cable with small attenuation选用优质射频电缆，自身衰减小；
2. Stable performance性能稳定；
3. Stable performance频带内驻波良好。

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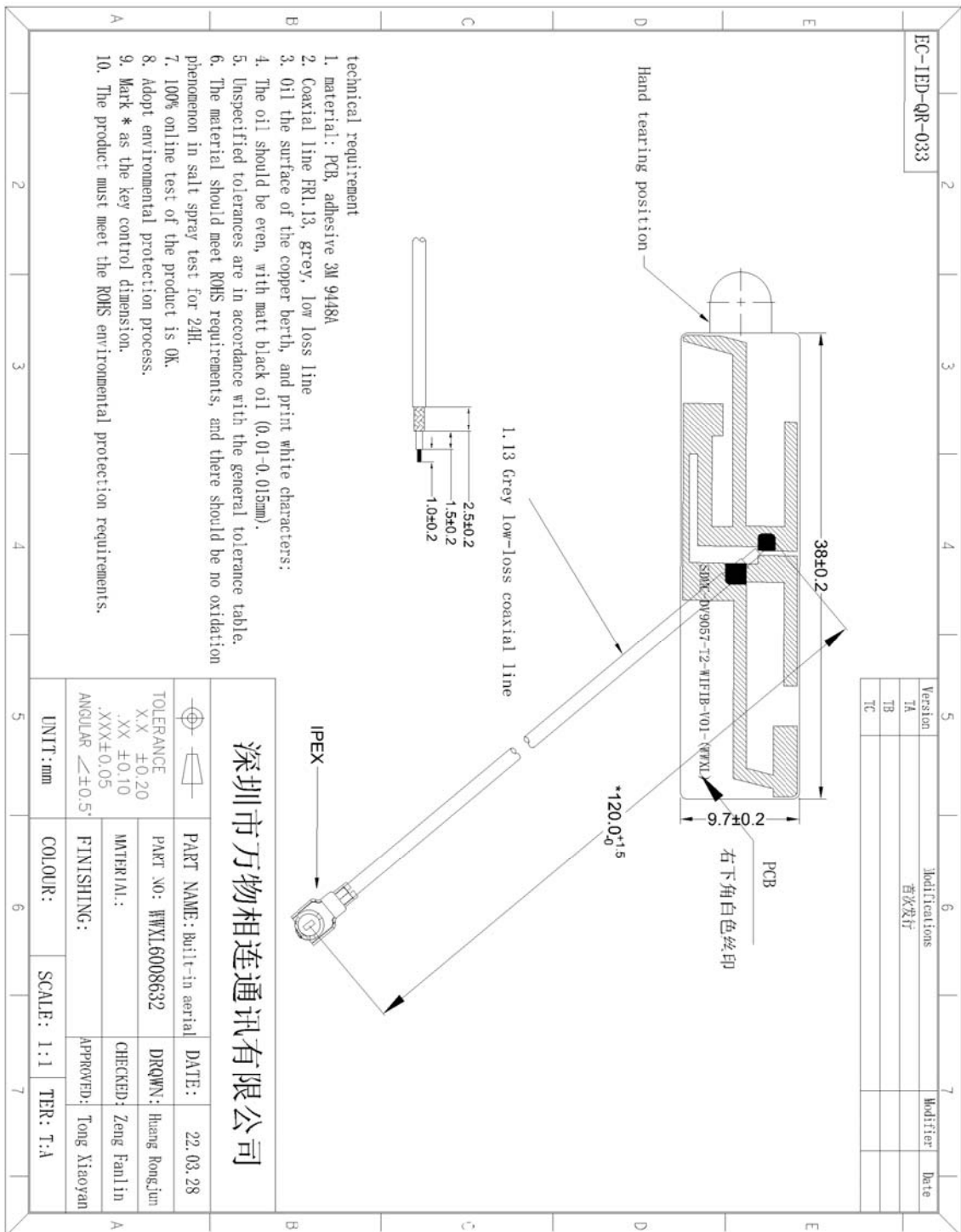
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## 六、Drawing产品结构图



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## 七、Reliability testing环境可靠性试验报告

### 1 Environmental experiment环境试验

| High and low temperature and humidity test report |   |          |   |                          |        |                    |
|---|---|----------|---|--------------------------|--------|--------------------|
| test project                                      | High temperature, low temperature and constant humidity test  |          |   |                          |        |                    |
| name  | Built-in antenna (WWXL6008632)  | date     | 2022.03.28                                |                          |        |                    |
| device  | Constant temperature and humidity test box network analyzer   | Quantity | 5PCS                                      |                          |        |                    |
| Inspectin standards                               | 1. There are no defects such as peeling off, cracks, wrinkles, etc. on the metal surface; non-metal parts must not have defects such as discoloration, cracking, deformation, degumming.<br>2. The electrical test meets the design requirements; the voltage standing wave ratio test is satisfactory. |          |   |                          |        |                    |
| Test name   | Pilot projects  | request  | experiment method                         | Actual test data         | result |                    |
|   |   |          |   |                          | sample | Assessm ent result |
| High temperature test                             | Temperature (°C)  | +85±3    | 9 according to GB2423.1-89 Method         | +87<br>1.2<br>2.3<br>1   | 1      | qualified          |
|   | Test sample temperature stabilization time (H)  |          |   |                          | 2      | qualified          |
|   | Test duration (h)   |          |   |                          | 3      | qualified          |
|   | Recovery time (h)   |          |   |                          | 4      | qualified          |
|   |   |          |   |                          | 5      | qualified          |
| Low temperature test                              | Temperature (°C)  | -45±3    | 8th in accordance with GB2423.1-89 Method | -46<br>1.2<br>2.4<br>1.1 | 1      | qualified          |
|   | Test sample temperature stabilization time (h)  |          |   |                          | 2      | qualified          |
|   | Test duration (h)   |          |   |                          | 3      | qualified          |
|   | Recovery time (h)   |          |   |                          | 4      | qualified          |
|   |   |          |   |                          | 5      | qualified          |
| Constant Damp Heat Test                           | Temperature (°C)  | +40±2    | According to GB2423.3-93 Section 5        | +42<br>92<br>22          | 1      | qualified          |
|   | Relative  |          |   |                          | 2      | qualified          |
|   |   |          |   |                          | 3      | qualified          |

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|  |                                     |   |        |     |   |           |
|--|-------------------------------------|---|--------|-----|---|-----------|
|  | humidity (%)                        | 1 | Method | 1.1 | 4 | qualified |
|  | Test duration (h) Recovery time (h) |   |        |     | 5 | qualified |

b. Salt spray test

| Salt fog test report        |  |                                    |                   |         |
|-----------------------------|--|------------------------------------|-------------------|---------|
| Test item                   | Salt spray test  |                                    |                   |         |
| Name                        | Built-in antenna (WWXL6008632)   | date of observation                | 2022.03.28        |         |
| Device name                 | Salt spray corrosion test box  | Test quantity                      | 5 PCS             |         |
| Test method                 | The test samples were put into the modulated salt solution test chamber and salt spray corrosion chamber for continuous spray test   |                                    |                   |         |
| Salt solution concentration | 52g/L  | PH Value of Salt Solution: 6.5-7.2 | Test cycle: 24h   |         |
| Actual test data            | 55g/L  | PH Value of Salt Solution: 6.8     | Test cycle: 26h   |         |
| Test standard               | Tests were carried out according to GB/T10125 "Artificial Atmosphere Corrosion Test and Salt Spray Test"; Results According to GB/T6461-2002 "Metal and other inorganic coatings on metal substrates after corrosion test are samples and specimens" |                                    |                   |         |
| Test result                 |  |                                    |                   |         |
| NO                          | Corrosion resistance grade   | Actual test data                   | Assessment result | Remarks |
| 1                           | Rp/Ra=10/10vsB   | Rp/Ra=10/10vsB                     | qualified         |         |
| 2                           | Rp/Ra=10/10vsB   | Rp/Ra=10/10vsB                     | qualified         |         |
| 3                           | Rp/Ra=10/10vsB   | Rp/Ra=10/10vsB                     | qualified         |         |
| 4                           | Rp/Ra=10/10vsB   | Rp/Ra=10/10vsB                     | qualified         |         |
| 5                           | Rp/Ra=10/10vsB   | Rp/Ra=10/10vsB                     | qualified         |         |

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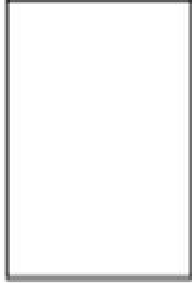
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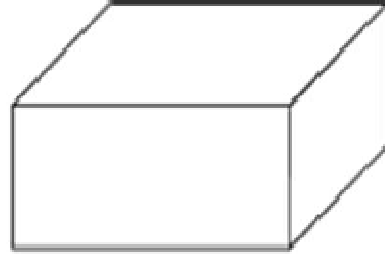


## 八、Packing instructions 包装说明:

▼



100PCS/Pouch



30Pouch/1Caron

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