Request information

# PRODUCT SPECIFICATION

# TFT-LCD UART MODULE

## Module No: 1000058-01

☑ Preliminary Specification

☐ Approval Specification

| Designed by | Checked by | Approved by |
|---|---|---|
| | | |

## Final Approval by Customer

| Approved by | Comment |
|---|---|
| | |

For more information, contact us:

**WWW.DCLTEK.COM | 1-800-407-8917 | SALES@DCLTEK.COM**

※The specification of “TBD” should refer to the measured value of sample . If there is difference between the design specification and measured value, we naturally shall negotiate and agree to solution with customer.

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# 1.Document Revision History

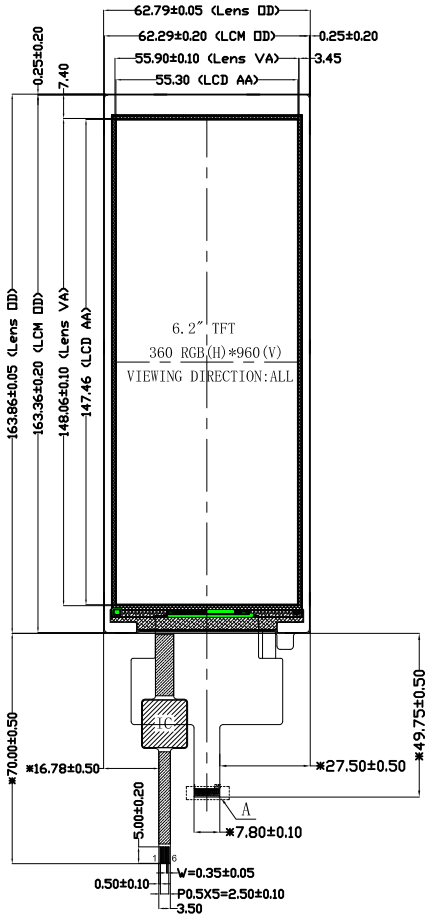
| Version | Contents | Date | Note |
|---|---|---|---|
| **V0** | **NEW** | **2024.03.07** | |
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## 2. General Description

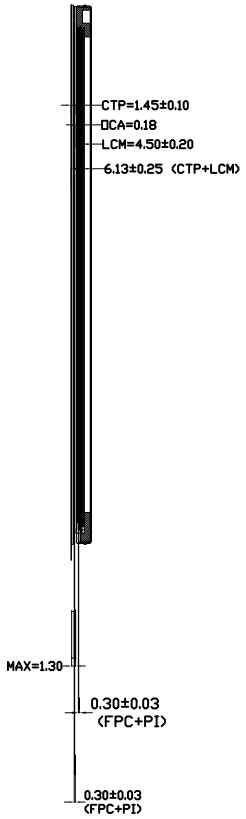
| NO | Item | Specification | Unit |
|---|---|---|---|
| 1 | LCD Size | TFT"6.2 | inch |
| 2 | Panel Type | IPS | mm |
| 3 | Resolution | 360xRGBx960 | pixel |
| 4 | Display Mode | Normally Black | - |
| 5 | Number of Colors | 16.7M | - |
| 6 | Viewing Direction | ALL | - |
| 7 | CTP+LCM Module size | 62.79(H)x163.86(V)x6.13(T) | mm |
| 8 | Active Area | 55.30(H)x147.46(V) | mm |
| 9 | LCM Driver | - | |
| 10 | Light Source | White LED | |
| 11 | LCM Interface | MIPI | bit |

## 3. LCM Mechanical Drawing

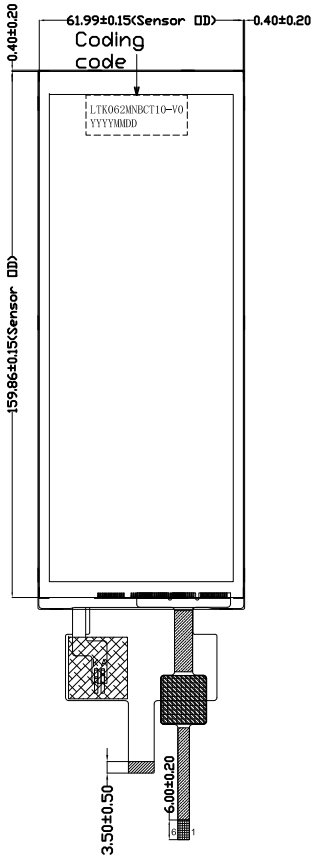
# Front View




# Side View




# Back View



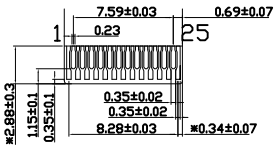

| PIN | SYMBOL |
|---|---|
| 1 | NC |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | NC |
| 6 | NC |
| 7 | GND |
| 8 | GND |
| 9 | DON |
| 10 | DOP |
| 11 | GND |
| 12 | CLKN |
| 13 | CLKP |
| 14 | GND |
| 15 | D1N |
| 16 | D1P |
| 17 | GND |
| 18 | /RESET |
| 19 | NC |
| 20 | VDDIO_1.8V |
| 21 | VCC_3.3V |
| 22 | NC |
| 23 | LEDA |
| 24 | NC |
| 25 | LEDK |

PIN Definition

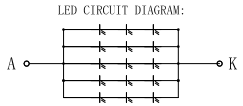
| PIN | SYMBOL |
|---|---|
| 1 | CTP_GND |
| 2 | CTP_VDD_3.3V |
| 3 | CTP_SCL_3.3V |
| 4 | CTP_SDA_3.3V |
| 5 | CTP_INT |
| 6 | CTP_RST |

CTP Technical requirements:
1. Structure: G+G.
2. Transmittance: ≥86% (550nm).
3. All unmarked tolerances: ±0.10mm.
4. IC: FT7311, 5-point touch
5. Temperability: 110g steel ball, height 30cm drop without breaking, surface hardness
   Test: ≥6H (pencil hardness test).
6. CG unmarked key holes and edge safety inverted ≤ 0.10mm.

Notes:
1. Display: 6.2", TFT
2. Resolution: 360*RGB*960
3. LCD Viewing Direction: ALL
4. LCD Driver: GC9503CV
5. LCM Brightness: 350cd/㎡(TYP),
   LCM+TP Brightness: 300cd/㎡(TYP), Uniformity≥80%
6. *: Critical dimension: ( ) Reference dimension
7. Operating Temperature: -20℃~ +70℃
8. Storage Temperature: -30℃~ +80℃
9. Requirements on Environmental Protection: ROHS




SCALE A: 4:1




IF=100MA, VF=9±0.9V

| REV | DESCRIPTION | DATE | NAME |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | NEW | 2023.06.06 | JACK |

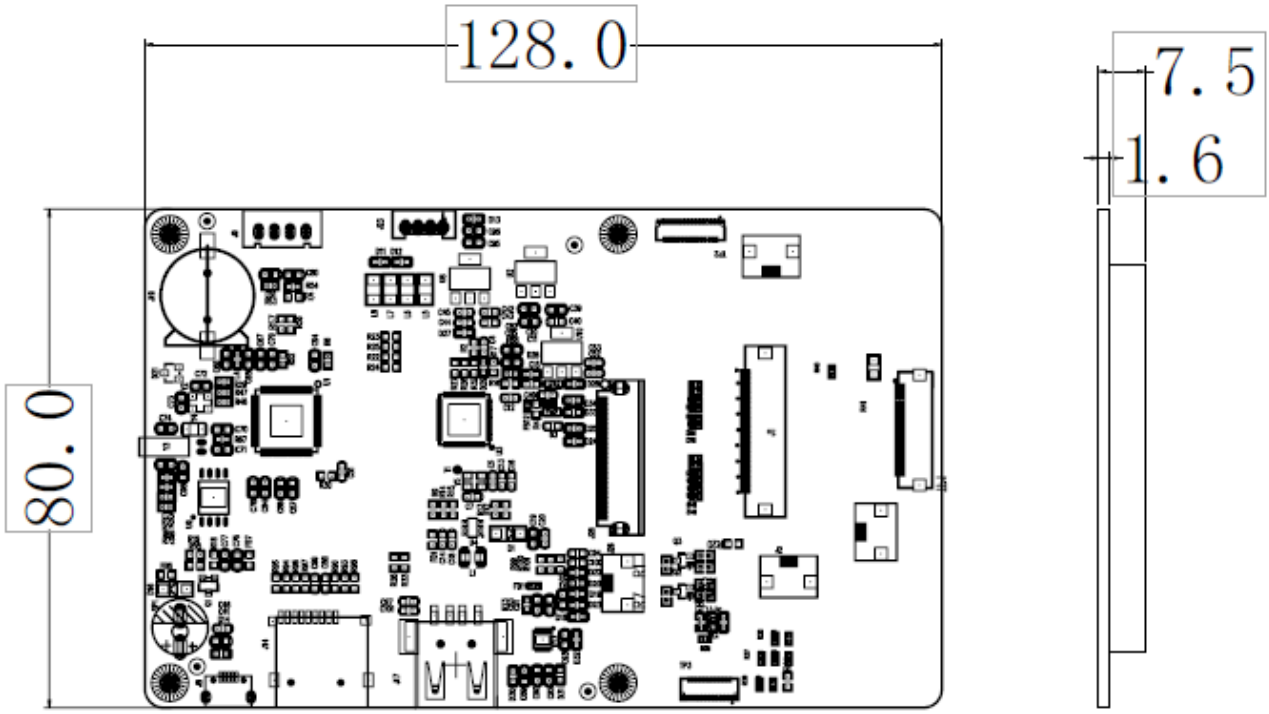
LEADTEK DISPLAY

LEADTEK COMPANY LIMITED

| SCALE:1/1 | UNIT:mm | PAGE:1/1 | | Approve | Check | Drawn |
|---|---|---|---|---|---|---|
| Part No: | LTK062MNBCT10 | | VER:V0 | IAN | JONA | JACK |
| Customer No: | | | | | | |

## 4．串行板框架: Serial board frame:（图纸仅供参考，实际以客户装配确认结果为准。）

## Eleven. Mechanism Drawing: (Drawings are for reference only, the actual assembly confirmation results of the customer shall prevail.)



## 5. 工作环境和可靠性参数 Working environment and Reliability Test

| 参数 Item | 测试条件 Conditions | 最小值 Min | 典型值 Type | 最大值 Max | 单位 Unit |
|---|---|---|---|---|---|
| 工作温度 Working Temperature | 12V 电压下，湿度 60% 60%RH at 12V voltage | -30 | 25 | 80 | ℃ |
| 储存温度 Storage Temperature | - | -30 | 25 | 80 | ℃ |
| 工作湿度 Working Humidity | 25℃ | 10% | 60% | 90% | RH |
| 三防处理 Protective Paint | - | - | 有 Yes | - | - |
| 出厂前老化时间 Aging Test | - | - | 72 | - | H |

## 6. 接口性能参数 Interface performance parameter

| 参数 Item | 测试条件 Conditions | 最小值 Min | 典型值 Type | 最大值 Max | 单位 Unit |
|---|---|---|---|---|---|
| 串口波特率 Baudrate | 用户自定义(硬件配置文件设置) User set | 7841 | 115200 | 921600 | bps |
| 串口输出电平（TXD） Output Voltage（TXD） | 输出 1，Iout = 1mA Output 1, Iout = 1mA | 3.0 | 3.3 | - | V |
| | 输出 0，Iout = -1mA Output 0, Iout = -1mA | - | 0 | 0.3 | V |
| 串口输入电平（RXD） Input Voltage（RXD） | 输入 1，Iin = 1mA Input 1, Iin = 1mA | 2.4 | 3.3 | 5.0 | V |
| | 输入 0，Iin = -1mA Input 0, Iin = -1mA | 0 | - | 0.5 | V |
| 串口模式 Interface | 串口电平选择跳线选择：ON＝8N1 3.3V TTL*2；OFF＝8N1，RS232*2 兼容接口 Mode is determined by jumper: ON＝8N1 3.3V TTL*2; OFF＝8N1, RS232*2 | | | | |
| 用户接口方式 Socket | 8Pin_2.0mm 插座带锁扣 8Pin_2.0mm socket with buckles | | | | |
| 串口数据格式 UART Data format | 1 bit 起始位-8bit 数据-1bit 结束位 1 start bit - 8 data bits- 1 stop bit | | | | |
| USB 接口 | 无 No | | | | |
| SD 卡接口 Slot | 有 Yes | | | | |

# 7.存储器特性 Memory peculiarity

| 存储器类别 Item | 典型值 Typical value | 功能 Features | 说明 Description |
|---|---|---|---|
| FLASH 存储器 | 1Mbytes | 字库存储空间<br>Space of Font | 储存字库、图标库及其他二进制文件。<br>Store font, icon libraries, and other binary files |
| | | 图片存储空间<br>Picture Storage | 图片存储（存储数量和图片大小有关单个图片文件的大小不要超过 262Kbytes） Store picture(Picture quantity relate to picture size, size of a single image file should not exceed 262Kbytes) |
| RAM 存储器 | 256Kbytes | 程序变量存储空间<br>Program Variable Storage Space | 掉电不保存<br>Data is not saved when power down |

# 8.UI 和外设支持 UI & Peripheral

| UI 和外设支持 UI & Peripheral | |
|---|---|
| UI 版本 UI Version | 客户定制UI Customer customized UI |
| 支持外设 Peripheral | 支持电阻式触摸屏、蜂鸣器（可选）、RTC（可选）<br>Resistive touch screen, buzzer (optional), RTC (optional) |

# 9.包装和物理尺寸 Packing Capacity & Dimension

| 尺寸 Dimension | |
|---|---|
| 外形尺寸 Dimension | 128.00(W)×80.00(H)×7.5(T)mm |
| 净重量 Net Weight | TBD |

# 10.串口通信接口定义 UART Pin Description

| TTL /CMOS | | | |
|---|---|---|---|
| 序号 Pin number | 名称 Name | 类型 Type | 描述 Description |
| 1 | GND | POWER | 电源负极Negative |
| 2 | PGMCK | 升级/时钟Upgrade/Clock | 串口输出 UART OUT |
| 3 | PGMIO | OUT | 升级数据接口Upgrade data interface |
| 4 | TX | 输出OUT | 串口输出UART OUT |
| 5 | RX | 输入IN | 串口输入 UART IN |
| 6 | +5V | POWER | 电源正极 Positive |

备注：1.软件默认采用串口 2（TX2，RX2）进行通信，如果客户需要使用 TX4，RX4 做为串口屏通信需要修改软件。

2.不影响性能参数和使用的产品设计变更，恕不另行通知。

info: the new design changes of the product will be added as time gose by, do not affect performance parameters or use without prior notice.

DCLTEK

深圳市丽台电子有限公司

# Quality Inspection Standards

# 品质允收标准

**Model No. / 产品型号:** **Applies 5.5~10.0 Inch Touch Display Screen**
**Updated Date /生效日期:** **2022-05-20**
**Version / 版 本:** **A0**
**Customer confirmation :** _____

Record of Revision /修订履历

| Version /版本 | Revision Record /修订内容 | Reviser /修订人 | Revision Date /修订日期 |
|---|---|---|---|
| V0 | 首发 / Starting | | 2022.05.20 |
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1.Scope of application /适用范围.

This document shall be applied to 5.5~10.0 inch touch display screen.

本文件适用于5.5~10.0 寸触摸显示屏.

2.Inspection conditions and environment /检验条件与环境.

2. 1 Inspection Conditions /检验条件:

(1) Inspection Distance /检测距离: 35cm ±5cm.

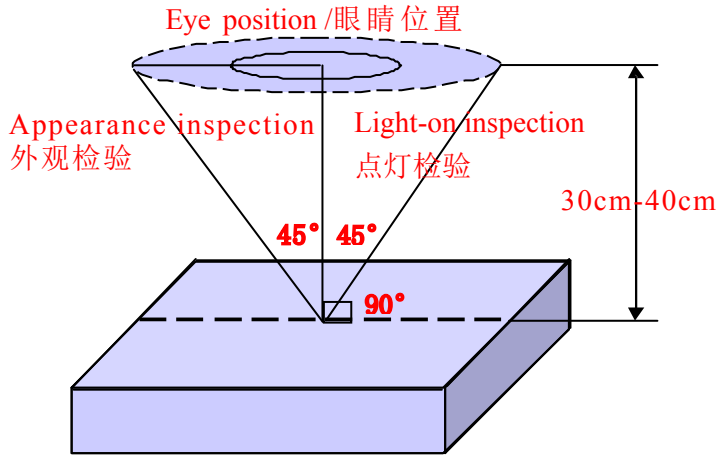
(2) Check time /检验时间：

Displays performance test /功能测试：2~3S /Image，Cosmetic Inspection /外观检验:10~12S.

(3) Check the viewing angle /检验视角:

Light-on Inspection Angle /点灯检验角度： ±45°.

Cosmetic Inspection Angle /外观检验角度：±45°.




(Perpendicular to LCD panel surface /垂直于LCD表面)

2.2 Inspection environment /检验环境:

| | | |
|---|---|---|
| Ambient Temperature<br>温度 | | 25℃±5℃ |
| Ambient Humidity<br>湿度 | | 55±5%RH |
| Ambient Illumination<br>亮度 | Cosmetic Inspection<br>外观检验 | 800-1000 Lux |
| | Functional Inspection<br>点灯检验 | 200~300Lux |

2.3 Sampling Conditions /抽样条件:

（1）Quantity to be inspected /批量：Quantity of shipment lot per model /单次运送单一型号数量.

（2）Sampling method /抽样方法：

| Sampling Plan /抽样计划 | | GB/T 2828.1- 2003 |
|---|---|---|
| | | Normal Inspection ， Single Sampling<br>正常检验、单次抽样 |
| | | General inspection level： Ⅱ<br>一般检验水平：二级 |
| AQL | Major Defect /主要缺陷 | 0.65 |
| | Minor Defect /次要缺陷 | 1.0 |

（3）The classification of Major(MA) and Minor(MI) defects is shown as “3.1 Classification of defects”.

主缺(MA)及次缺(MI)定义于”3.1缺陷分类”.

## 3.Terms And Definitions /术语和定义

### 3.1 Classification of defects / 缺陷分类 :

（1）Major defects /主要缺陷:

A major defect is a defect that is likely to result in failure, or to reduce materially the usability of the product for its intended purpose .

可导致产品功能失效或减少产品可用性的缺陷.

（2）Minor defects /次要缺陷:

It will not cause the product to fail and reduce the defects in the effective use and operation of the product.

不会导致产品功能失效和减少产品的有效使用与操作的缺陷.

### 3.2 Point defects /点状缺陷：

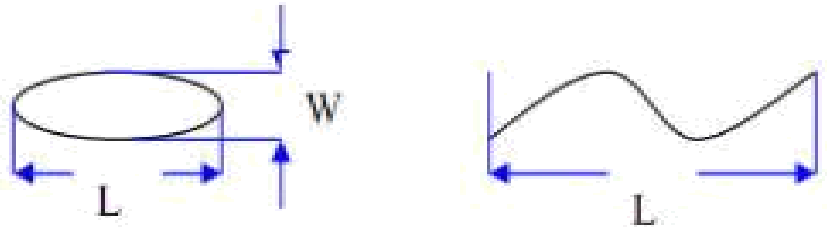
The size of the point defect is defined by the diameter D, and the average diameter of the defect is D=1/2（W+L）.

点状缺陷的大小是由直径 D 定义的，缺陷的平均直径 D=1/2(W+L).

### 3.3 Linear defects /线状缺陷：

When defect size L≥2W,the defect count as liner type defect.Size of linear defect is defined by length ( L) and the maximum width (W).

当缺陷尺寸 L≥2W 时，被视为线状缺陷，线状缺陷是由长度 (L) 和最大宽度 (W) 定义的.



3.4 LCD sub-pixel dot /LCD子像素点

（1）Definition /定义： The point defect area is greater than 50% of the LCD sub-pixel area, and is visible through ND5% filter masking .

子像素点缺陷面积大于 50% LCD子像素面积, 且透过 ND5%遮盖是可见的.

（2）The drawing of 1/2 area sub-pixel definition / 1/2 面积的子像素定义绘图:

The 1/2 area sub-pixel can be defined as below one or more of specific shapes

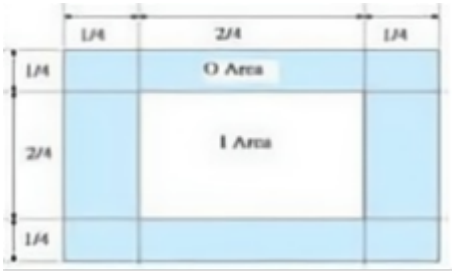
1/2 面积的子像素可以定义为如下一个或多个特定形状图：



3.5 Small bright dot /细碎亮点：

Point defects smaller than "LCD sub-pixels" /小于“LCD子像素点”的点缺陷.

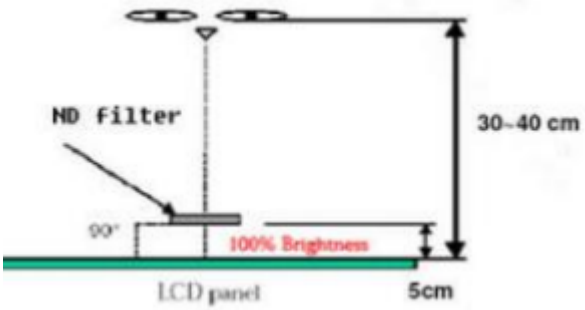
（Ratio of Zone I to Zone O /I 区与 O 区比例：1：2：1）




3.6 ND filter inspection method /ND卡的检验方法：

Hold the ND filter about 5cm above the display area, with your eyes 30-40cm away from the panel, and observe for 2~3 seconds.

在显示区域上方大约 5cm 处握住 ND 卡，眼睛距离面板 30-40cm，观察2~3 秒.




3.7 Any FPC surface problems that do not leak copper on the surface and do not cause functional failure are acceptable.
任何 FPC 表面问题，表面未露铜和不造成功能失效是可以接受.

3.8 Extraneous substances that can be wiped out， like Finger point,Particles are not considered as a defect .
可以被擦拭干净的表面物质不视为缺陷 (如手指印，尘粒) .

3.9 Defects that can be covered by the material and are not visible in appearance are not considered defects.

能被物料覆盖，外观不可见的缺陷不视为缺陷.

3.10 Panel damage /面板损伤：

Glass damage outside the AA display area that does not affect the effective wiring is acceptable.

AA 显示区域以外的玻璃损伤，不影响有效线路是可以接受的.

3.11 Issues not specified or defined in this acceptance standard shall be handled through friendly negotiation between the two parties.

本允收标准中未规定或定义的问题，双方友好协商处理.

## 4. Inspection standards /检验标准

### 4.1 Structural Dimensions /结构尺寸规格

| Serial Number 序号 | Measurement items /测量项目 | | Specification /规格 | Remark /备注 |
|---|---|---|---|---|
| | 名称 /Name | Unit /单位 | Tolerance /公差 | |
| 1 | Outside dimension：Length 尺寸：长 | mm /毫米 | 0.15mm~0.30mm | Please refer to the product specification for detailed dimensions and tolerances 详细的尺寸规格和公差请参考产品规格书 |
| 2 | Outside dimension：Width 尺寸：宽 | mm /毫米 | 0.15mm~0.30mm | |
| 3 | Outside dimension：Thickness 尺寸：高 | mm /毫米 | 0.20mm~0.50mm | |

### 4.2 Appearance Inspection Specification /外观检验规格

( D： diameter, W： width, L： length, N： quantity, DS： spacing )

| Inspection area 检验区域 | Inspection items 检验项目 | Inspection specifications 检验规格 | Defect category 缺陷类别 | |
|---|---|---|---|---|
| Glass 玻璃 | Wire(on Array) 线路 | Can't be damaged 不能损伤 | MA | |
| | Chipping/corner breaking 崩边/破角 | Can't affect the effective lines and functions 不能影响有效线路和功能 | MA | |
| | Edge 边缘 | There must be no extensional cracks 不可有延伸性裂纹 | MA | |
| Silicone 硅胶 | Silicone coating 硅胶涂布 | The height must not exceed the LCD CF surface 高度不能超过LCD CF面 | | MI |
| | Glue overflow 溢胶 | Can't cover FPC, POL, etc 不能覆盖到FPC、POL等 | | MI |

| Inspection area<br>检验区域 | Inspection items<br>检验项目 | Inspection specifications<br>检验规格 | Defect category<br>缺陷类别 | |
|---|---|---|---|---|
| PCBA<br>FPC<br>Connector<br>连接器 | Appearance<br>外观 | Scratches or injuries are not allowed to cause copper exposure<br>划伤或损伤不允许表面出现露铜 | | MI |
| | Component<br>元器件 | Can't be damaged and lack<br>不能损伤和缺少 | MA | |
| | Goldfinger oxidation<br>金手指氧化 | Not allowed<br>不允许 | | MI |
| | Connection status<br>连接状况 | The connection must be accurate and stable<br>必须准确稳定连接 | MA | |
| | Break<br>破裂 | Not allowed<br>不允许 | MA | |
| | Soldering,: false soldering/tinning/tin beads<br>假焊/连锡/锡珠 | Not allowed<br>不允许 | MA | |
| POL<br>偏光片 | Scratches<br>划伤 | 1. W≤0.07mm；L≤5mm，Ignore（忽略）<br>2. 0.07mm＜W≤0.12mm ; L≤5mm ; N≤4 ; DS≥10mm<br>3. 0.12mm＜W；5mm＜ L， Not allowable（不允许） | | MI |
| | Dent<br>凹凸印 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| | Bubbles<br>气泡 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| | Point defects<br>点状不良 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| | Edge bubbles<br>边缘气泡 | 1. Within 1/2BM of the display area, it is not allowed<br>显示区往外 1/2BM 区域内，不允许<br>2. The display area is 1/2 outside the BM area, and it is not controlled<br>显示区往外1/2BM区域以外，不管控 | | MI |
| | Dirty/watermarked<br>脏污/水印 | No dirt/water lines/finger marks are allowed, and must be wiped clean<br>不允许有脏污/水纹/手指印，须擦拭干净方可 | | MI |
| | Warping<br>起翘 | Not allowed<br>不允许 | | MI |
| | Attaching offset<br>贴偏 | It is necessary to completely cover the display area outward, within the 1/2BM area, or without leaking POL edges after TP is attached<br>需完整覆盖显示区往外、1/2BM区以内或贴合TP后不会出现漏偏光片边缘 | | MI |
| | Mixture<br>混料 | Mixing different types of POL or not using POL as required by the BOM，not allowed<br>不允许混贴不同型号的POL或未按BOM要求使用POL | MA | |

| Inspection area<br>检验区域 | Inspection items<br>检验项目 | Inspection specifications<br>检验规格 | Defect category<br>缺陷类别 | |
|---|---|---|---|---|
| TP&CG | Point defects<br>点状不良 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| | Scratches<br>划伤 | 1. W≤0.07mm；L≤5mm，Ignore（忽略）<br>2. 0.07mm＜W≤0.12mm ; L≤5mm ; N≤4 ; DS≥10mm<br>3. 0.12mm＜W；5mm＜ L， Not allowable（不允许）<br>4. There is a feeling scratch，Not allowable<br>有感划伤，不允许 | | MI |
| | Edges and corners cracked<br>崩角/崩边 | 1. Product front /产品正面： Edge and corner chipping is not allowed 崩角、崩边不允许<br>2. Product back /产品背面:<br>X≤ 0.5 , Y≤0.5，Z≤1/2T；N≤4；DS≥10mm | | MI |
| | Silk screen<br>丝印 | The silk screen is clear, complete and correct<br>丝印清晰、完整、内容正确 | | MI |
| | Dirty<br>脏污 | Non-wipeable dirt, not allowed<br>不可擦拭的脏污，不允许 | | MI |
| | Broken<br>破损 | Not allowable<br>不允许 | MA | |
| | Ink color aberration<br>油墨色差 | ΔE>1，Not allowable（不允许） | | MI |
| | Cover pinholes<br>针孔 | 1. D≤0.15mm , N≤4 , DS≥10mm，allowable<br>2. D＞0.15mm，intensive pinholes（密集型针孔），Not allowable（不允许） | | MI |
| | IR holes<br>IR孔 | Dirt, deviation, color difference, etc. are not allowed<br>不允许脏污、偏位、色差等 | | MI |
| BL<br>背光 | Backlight separation<br>背光分离 | Not allowable<br>不允许 | | MI |
| | Deformation of rubber iron and rubber frame<br>胶铁、胶框变形 | Use the plug gauge 0.3mm on the flat surface and can snap in and judge NG<br>在平面上使用塞规0.3mm卡翘曲位置，能卡进判定NG | | MI |
| | The iron frame is oxidized and not tightened<br>铁框氧化、卡不紧 | Not allowable<br>不允许 | | MI |
| | Backlight sticky solder beads, glue, etc<br>背面粘锡珠、残胶等 | Not allowable<br>不允许 | | MI |
| | Lnkjet coding，Barcode，QR code<br>喷码/条码/二维码 | The lnkjet coding is clear and complete, the barcode and QR code can be scanned normally, and the content and format match<br>喷码清晰完整、条码和二维码可正常扫描，内容和格式相符 | | MI |
| | Accessories(protective film, double-sided tape, insulating adhesive, etc.)<br>辅料（保护膜、双面胶、绝缘胶等） | Defects such as missing pastes, sticking deviations, defects, and fractures are not allowed<br>不允许有漏贴、贴偏、残缺、断裂等缺陷 | | MI |

4.3 Electrical test specifications /电性检查规格

( D： diameter, W： width, L： length, N： quantity, DS： spacing )

| Inspection items<br>检验项目 | Inspection specifications<br>检验规格 | Defect category<br>缺陷类别 | |
|---|---|---|---|
| Glass bright spots/dark spots<br>玻璃亮点/暗点 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| Mura | Use ND5% filter masking, visual invisibility is OK, 200~300Lux<br>使用ND5%遮盖，目视不可见即为OK，200~300Lux | | MI |
| Small bright dot<br>细碎亮点 | Use ND5% filter masking, visual invisibility is OK<br>使用ND5%遮盖，目视不可见即为OK | | MI |
| Light leakage<br>漏光 | 1. Use ND5% filter masking, visual invisibility is OK<br>使用ND5%遮盖，目视不可见即为OK<br>2. If necessary, sign off on the sample<br>必要时，签限定样 | | MI |
| Backlight black/white dots<br>背光黑点/白点 | 1. D≤0.20mm，Ignore（忽略）<br>2. 0.20mm＜D≤0.40mm；N≤4；DS≥10mm<br>3. 0.40mm＜D，Not allowable（不允许） | | MI |
| Linear foreign bodies<br>线状异物（异物毛丝等） | 1. W≤0.07mm；L≤5mm，Ignore（忽略）<br>2. 0.07mm＜W≤0.12mm ; L≤5mm ; N≤4 ; DS≥10mm<br>3. 0.12mm＜W；5mm＜ L，Not allowable（不允许） | | MI |
| Black/White Print<br>黑印/白印 | Use ND5% filter masking, visual invisibility is OK<br>使用ND5%遮盖，目视不可见即为OK | | MI |
| The display is uneven<br>显示不均匀 | Use ND5% filter masking, visual invisibility is OK<br>使用ND5%遮盖，目视不可见即为OK | | MI |
| The brightness is uneven<br>亮度不均匀 | Brightness uniformity＜85.0%，Not allowable<br>亮度均匀性＜85.0%，不允许 | | MI |
| Displacement of the membrane<br>膜材移位 | Not allowable<br>不允许 | | MI |
| Interference pattern/Newtonian pattern<br>干涉纹/牛顿纹 | Not allowable<br>不允许 | | MI |
| Display abnormal<br>显示异常 | Not allowable<br>不允许 | MA | |
| No display<br>无显示 | Not allowable<br>不允许 | MA | |
| Line/Missing Drawing<br>线条/缺画 | Not allowable<br>不允许 | MA | |
| Splash screen<br>闪屏 | Not allowable<br>不允许 | MA | |
| LCD grid<br>LCD网格 | Not allowable<br>不允许 | MA | |
| Afterimage<br>残影 | Not allowable<br>不允许 | MA | |
| Wrong viewing angle<br>视角错误 | Not allowable<br>不允许 | MA | |
| No touch<br>无触摸 | Not allowable<br>不允许 | MA | |
| Touch the jump point<br>触摸跳点 | Not allowable<br>不允许 | MA | |
| Not sensitive<br>触摸不灵敏 | Not allowable<br>不允许 | MA | |