Shenzhen Leadtek Electronics Co.,Ltd

PRODUCT SPECIFICATION TFT-LCD MODULE

Module No: LTK101WX08Q-V2

- ☑ Preliminary Specification
- ☐ Approval Specification

Designed by	Checked by	Approved by
lan	Ridi	Steven

Final Approval by Customer

Approved by	Comment

**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.

Revision Record

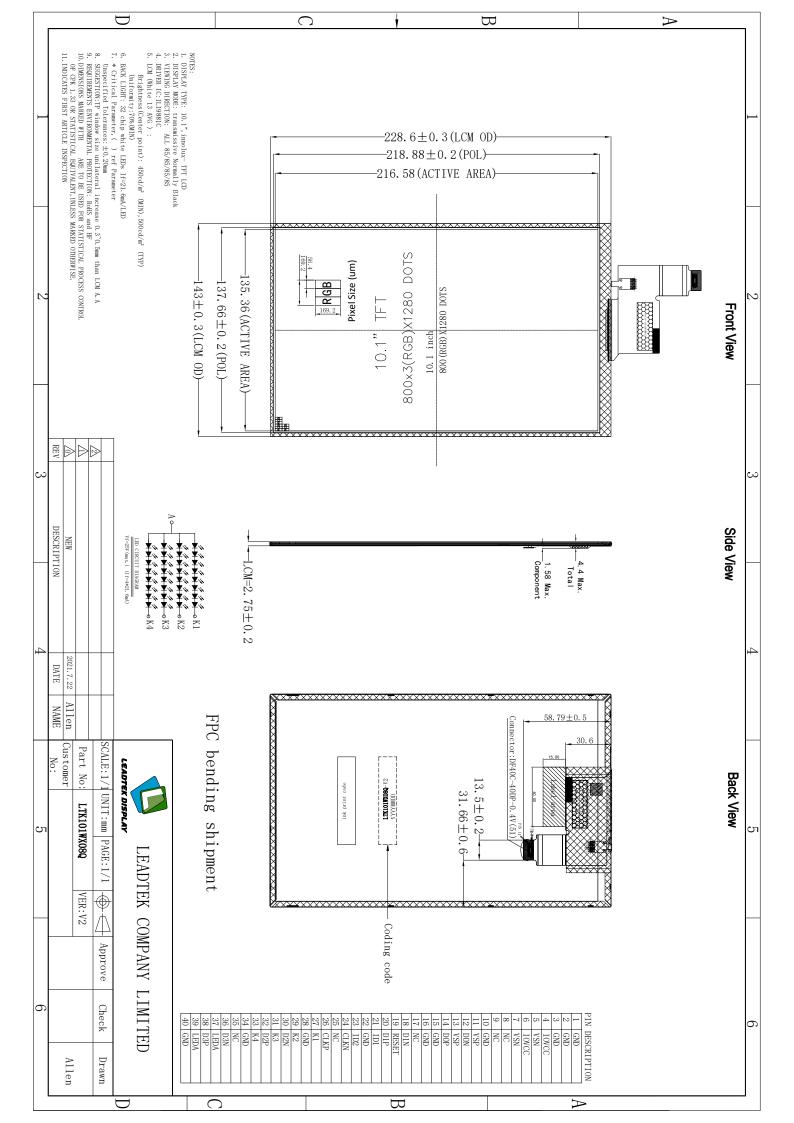
REV NO.	REV DATE	CONTENTS	Note
V2	2021-7-28	NEW ISSUE	

1. General Information

ITEM	STANDARD VALUES	UNITS
LCD type	10.1"TFT	
Dot arrangement	800(RGB)×1280	dots
Color filter array	RGB vertical stripe	
Display mode	Transmissive / Normally Black	
Viewing Direction	80/80/80/80	
Driver IC	ILI9881C	
L C M size	143.00(W)×228.60(H)×2.75(T)	mm
Active area	135.36(W)×216.576(H)	mm
Dot pitch	0.1692(W)×0.1692(H)	mm
Interface	MIPI	
Back Light	32 White LED	

2.Outline drawings





4 Interface Description

	ertace Descr	
Pin	Symbol	Description.
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	IOVCC	Power Voltage(1.8V)
5	VSN	Analog supply negative voltage -5.0V(typ).
6	IOVCC	Power Voltage(1.65~3.6V)
7	VSN	Analog supply negative voltage -5.0V(typ).
8	NC	No connection
9	NC	No connection
10	GND	Ground
11	VSP	Analog supply positive voltage 5.0V(typ).
12	MIPI_D0N	MIPI-DSI Data differential signal input pins. (Data lane 0-)
13	VSP	Analog supply positive voltage 5.0V(typ).
14	MIPI_D0P	MIPI-DSI Data differential signal input pins. (Data lane 0+)
15	GND	Ground
16	GND	Ground
17	NC	No connection
18	MIPI_D1N	MIPI-DSI Data differential signal input pins. (Data lane 1-)
19	RESET	Device reset signal (1.8V).
20	MIPI_D1P	MIPI-DSI Data differential signal input pins. (Data lane 1+)
21	ID1	High (1.8V)
22	GND	Ground
23	ID2	Low (GND)
24	MIPI_CKN	MIPI-DSI CLOCK differential signal input pins.
25	GND	Power ground.
26	MIPI_CKP	MIPI-DSI CLOCK differential signal input pins.
27	K1	LED Cathode
28	GND	Power ground.
29	K2	LED Cathode
30	MIPI_D2N	MIPI-DSI Data differential signal input pins. (Data lane 2-)
31	K3	LED Cathode
32	MIPI_D2P	MIPI-DSI Data differential signal input pins. (Data lane 2+)
33	K4	LED Cathode
34	GND	Power ground.
35	NC	No connection
36	MIPI_D3N	MIPI-DSI Data differential signal input pins. (Data lane 3-)
37	LEDA	LED Anode
38	MIPI_D3P	MIPI-DSI Data differential signal input pins. (Data lane 3+)
39	LEDA	LED Anode
40	GND	Ground

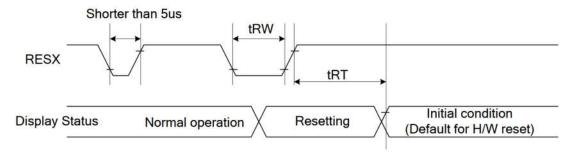
5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Logic Supply Voltage	IOVCC	-0.3	4.0	V
Analog positive voltage	VSP	-0.3	5.4	V
Analog negaitive voltage	VSN	-5.4	0	V

6. DC Characteristics

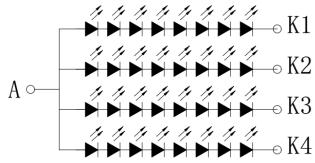
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Logic Supply Voltage	IOVCC	1.7	1.8	1.9	٧	-
Analog positive voltage	VSP	4.9	5.0	5.1	٧	-
Analog negaitive voltage	VSN	-5.1	-5.0	-4.9	V	-

7. Reset Timing Characteristics



Signal	ignal Symbol Parameter		Min	Max	Unit
	tRW	Reset pulse duration	10		uS
RESX	,DT	D		5 (note 1,5)	mS
etav Redessa	tRT	Reset cancel		120 (note 1,6,7)	mS

8. Backlight Charasterics



Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	-	-	25.0	V	If=86.4mA
Supply Current	If	-	86.4	-	mA	-
Luminous Intensity for LCM	-	450	500	-	cd/m ²	If=86.4mA
Uniformity for LCM	-	70	-	-	%	If=86.4mA
LED Life Time	-	20,000	-	-	Hr	If=86.4mA
Backlight Color				White		

9. Optical Characteristics

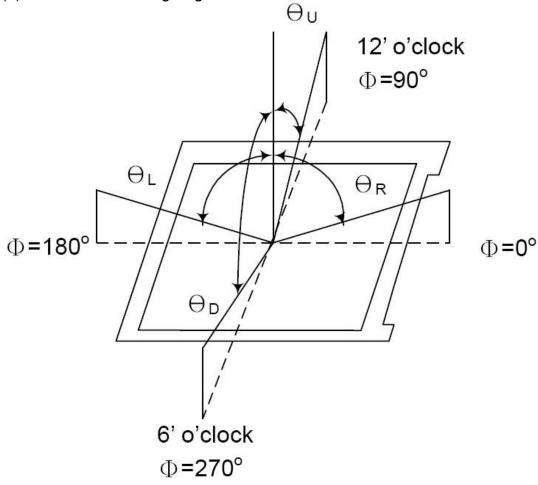
Itom		Symbol	Conditions	Sp	Specifications		Unit	Note
item	Item		Conditions	Min.	Тур.	Max.	Offic	Note
Transmitta (w/o APCF, w/o		Т%	Viewing	4.65	5.41		%	All left side data are based on
Contrast R	atio	CR	normal angle $\theta_X = \theta_Y = 0^\circ$	800	1000			Innolux's following condition – 1.LC : AAS
Response ⁻	Time	T _{on +} T _{off}		ı	25	35	ms	2.Light Source : Innolux Silicate LED
	Hor.	θ_{X^+}			80			3. Polarizer : CF: SRW062FPN1HC5 TFT: SRW062FPN1HC5
Viewing Angle	θ _{X-}	Center		80		deg.	4.Machine :DMS-803/DMS-900 5. By quick	
	Ver.	θ_{Y^+}	CR>10		80		 	VLC dark = 0.3V, VLC white = 4.6V
	ver.	θ _{Y-}			80			

Test

Conditions:

- 1. The ambient temperature is 25° C.
- 2. The test systems refer to Note 2. Measuring Equipment

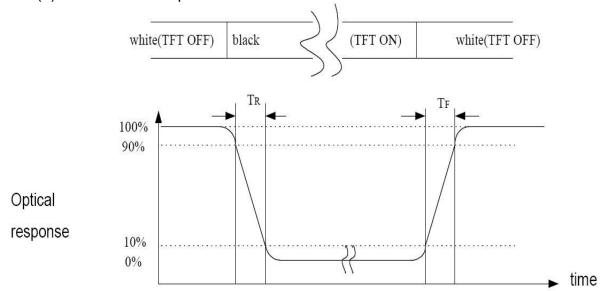
Note (1) Definition of Viewing Angle:



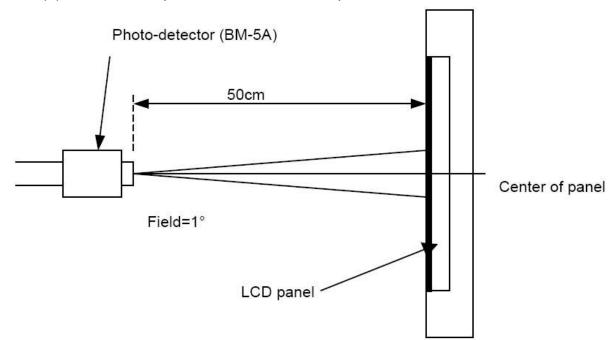
Note (2) Definition of Contrast Ratio(CR): Measured at the center point of panel CR = Luminance with all pixels white / Luminance with all pixels black



Note (3) Definition of Response Time: Sum of TR and TF



Note (4) Definition of optical measurement setup



Note (5) Rubbing Direction (The different Rubbing Direction will cause the different optima view direction).

10. Reliability Test Conditions And Methods

NO.	TEST ITEMS	TEST CONDITION	INSPECTION AFTER TEST
1)	High Temperature Storage	70℃±2℃×48Hours	
2	Low Temperature Storage	-30℃±2℃×48Hours	
3	High Temperature Operating	60℃±2℃×48Hours	Inspection after 2~4hours
4	Low Temperature Operating	-20℃±2℃×48Hours	storage at room temperature,the samples should be free from
5	Temperature Cycle(Storage)	-20°C 25°C 60°C (30min) (5min) (30min) 1cycle Total 10cycle	defects: 1,Air bublle in the LCD. 2,Sealleak. 3,Non-display. 4,Missing segments.
6	Damp Proof Test (Storage)	60℃±5℃×90%RH×48Hours	5,Glass crack. 6,Current IDD is twice higher than initial value.
7	Vibration Test	Frequency:10Hz~55Hz~10Hz Amplitude:1.5M X,Y,Z direction for total 3hours (Packing Condition)	7,The surface shall be free from damage. 8,The electric charateristic requirements shall be
8	Drooping Test	Drop to the ground from 1M height one time every side of carton. (Packing Condition)	satisfied.
9	ESD Test	\pm 2KV, Human Body Mode, 100pF/1500 Ω	

Note 1: Ta is the ambient temperature of samples.

Note 2: Ts is the temperature of panel's surface.

Note 3: In the standard condition, there shall be no practical problem that may affect the display function. After the reliability test, the product only guarantees operation, but don't guarantee all of the cosmetic specification.

Note 4: Before cosmetic and function test, the product must have enough recovery time, at least 2 hours at room temperature.

11. Handling Precautions

11.1 Mounting method

The LCD panel of CH LCD module consists of two thin glass plates with polarizes which easily be damaged. And since the module in so constructed as to be fixed by utilizing fitting holes in the printed circuit board.

Extreme care should be needed when handling the LCD modules.

11.2 Caution of LCD handling and cleaning

When cleaning the display surface, Use soft cloth with solvent

[recommended below] and wipe lightly

- Isopropyl alcohol
- Ethyl alcohol

Do not wipe the display surface with dry or hard materials that will damage the polarizer surface.

Do not use the following solvent:

- Water
- Aromatics

Do not wipe ITO pad area with the dry or hard materials that will damage the ITO patterns Do not use the following solvent on the pad or prevent it from being contaminated:

- Soldering flux
- Chlorine (CI), Salfur (S)

If goods were sent without being sili8con coated on the pad, ITO patterns could be damaged due to the corrosion as time goes on.

If ITO corrosion happen by miss-handling or using some materials such as Chlorine (CI), Salfur (S) from customer, Responsibility is on customer.

11.3 Caution against static charge

The LCD module use C-MOS LSI drivers, so we recommended that you:

Connect any unused input terminal to Vdd or Vss, do not input any signals before power is turned on, and ground your body, work/assembly areas, assembly equipment to protect against static electricity.

11.4 packing

- Module employ LCD elements and must be treated as such.
- Avoid intense shock and falls from a height.
- To prevent modules from degradation, do not operate or store them exposed direct to sunshine or high temperature/humidity

11.5 Caution for operation

- It is an indispensable condition to drive LCD's within the specified voltage limit since the higher voltage then the limit cause the shorter LCD life.
- An electrochemical reaction due to direct current causes LCD's undesirable deterioration, so that the use of direct current drive should be avoided.
- Response time will be extremely delayed at lower temperature then the operating temperature range and on the other hand at higher temperature LCD's how dark color in them. However those phenomena do not mean malfunction or out of order with LCD's, which will come back in the specified operation temperature.
- If the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.
- A slight dew depositing on terminals is a cause for electro-chemical reaction resulting in terminal open circuit.
 - Usage under the maximum operating temperature, 50%Rh or less is required.

11.6 storage

In the case of storing for a long period of time for instance, for years for the purpose or replacement use, the following ways are recommended.

- Storage in a polyethylene bag with the opening sealed so as not to enter fresh air outside in it.
 And with no desiccant.
- Placing in a dark place where neither exposure to direct sunlight nor light's keeping the storage temperature range.
- Storing with no touch on polarizer surface by the anything else.
 [It is recommended to store them as they have been contained in the inner container at the time of delivery from us

11.7 Safety

- It is recommendable to crash damaged or unnecessary LCD's into pieces and wash off liquid crystal by either of solvents such as acetone and ethanol, which should be burned up later.
- When any liquid leaked out of a damaged glass cell comes in contact with your hands, please wash it off well with soap and water

12. Precaution For Use

12.1

A limit sample should be provided by the both parties on an occasion when the both parties agreed its necessity. Judgment by a limit sample shall take effect after the limit sample has been established and confirmed by the both parties.

12.2

On the following occasions, the handing of problem should be decided through discussion and agreement between responsible of the both parties.

- When a question is arisen in this specification
- When a new problem is arisen which is not specified in this specifications
- When an inspection specifications change or operating condition change in customer is reported to CH LCD, and some problem is arisen in this specification due to the change
- When a new problem is arisen at the customer's operating set for sample evaluation in the customer site.

13. Packing Method

TBD



深圳市丽台电子有限公司

Shenzhen Leadtek Electronics Co.,Ltd

Quality Inspection Standards

品质允收标准

Model No. / 产品型号:	Applies More than 10.0 Inches Touch Display Screen
Updated Date /生效日期:	2022-05-20
Version / 版 本:	<u>A0</u>
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	Green	2022.05.20

1.Scope of application /适用范围.

This document shall be applied to more than 10.0 inches touch display screen.

本文件适用于5.5~10.0 寸触摸显示屏.

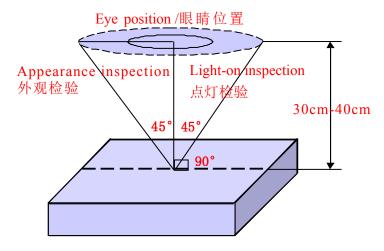
- 2.Inspection conditions and environment /检验条件与环境.
 - 2. 1 Inspection Conditions / 检验条件:
 - (1) Inspection Distance /检测距离: 35cm ±5cm.
 - (2) Check time /检验时间:

Displays performance test /功能测试: 3~5S /Image, Cosmetic Inspection /外观检验:12~15S.

(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:

Amb	ient Temperature 温度	25°C±5°C
Ambient Humidity 湿度		55±5%RH
Ambient	Cosmetic Inspection 外观检验	800-1000 Lux
Illumination 亮度	Functional Inspection 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 正常检验、单次抽样
		General inspection level: II 一般检验水平: 二级
4.01	Major Defect /主要缺陷	0.65
AQL	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:

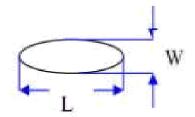
The size of the point defect is defined by the diameter D, and the average diameter of the defect is D=1/2 (W+L).

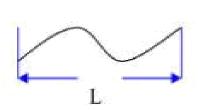
点状缺陷的大小是由直径 D 定义的,缺陷的平均直径 D=1/2(W+L).

3.3 Linear defects /线状缺陷:

When defect size $L \ge 2W$, 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:











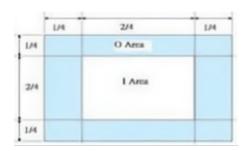




3.5 Small bright dot/细碎亮点:

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

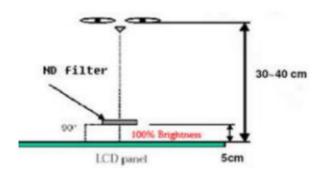
(Ratio of Zone I to Zone O/I 区与 O 区比例: 1: 2: 1)



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	Measurement items /测量项目		Specification /规格	Remark /备注	
序号	名称 /Name	Unit /单位	Tolerance /公差	TOMAK / H 11.	
1	Outside dimension: Length 尺寸: 长	mm /毫米	0.15mm~0.30mm	Please refer to the product specification for detailed	
2	Outside dimension: Width 尺寸: 宽	mm /毫米	0.15mm~0.30mm	dimensions and tolerances 详细的尺寸规格和公差请	
3	Outside dimension: Thickness 尺寸: 高	mm /毫米	0.30mm~0.50mm	参考产品规格书	

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	
	Wire(on Array) 线路	Can't be damaged 不能损伤	MA	
Glass 玻璃	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	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
硅胶	Glue overflow 溢胶	Can't cover FPC, POL, etc 不能覆盖到FPC、POL等		MI



Inspection area 检验区域	Inspection items 检验项目	Inspection specifications 检验规格	Defect o 缺陷	0 ,
	Appearance 外观	Scratches or injuries are not allowed to cause copper exposure 划伤或损伤不允许表面出现露铜	7,111	MI
DCD A	Component 元器件	Can't be damaged and lack 不能损伤和缺少	MA	
PCBA FPC	Goldfinger oxidation 金手指氧化	Not allowed 不允许		MI
Connector	Connection status 连接状况	The connection must be accurate and stable 必须准确稳定连接	MA	
连接器	Break 破裂	Not allowed 不允许	MA	
	Soldering,: false soldering/tinning/tin beads 假焊/连锡/锡珠	Not allowed 不允许	MA	
	Scratches 划伤	1. W≤0.10mm; L≤5mm, Ignore (忽略) 2. 0.10mm <w≤0.15mm; (不允许)<="" 0.15mm<w;="" 3.="" 5mm<l,="" allowable="" ds="" l≤5mm;="" not="" n≤5;="" td="" ≥10mm=""><td></td><td>MI</td></w≤0.15mm;>		MI
	Dent 凹凸印	1. D≤0.25mm, Ignore (忽略) 2. 0.25mm <d≤0.50mm; (不允许)<="" 0.50mm<d,="" 3.="" allowable="" ds≥10mm="" not="" n≤5;="" td=""><td></td><td>MI</td></d≤0.50mm;>		MI
	Bubbles 气泡	1. D≤0.25mm, Ignore (忽略) 2. 0.25mm <d≤0.50mm; (不允许)<="" 0.50mm<d,="" 3.="" allowable="" ds≥10mm="" not="" n≤5;="" td=""><td></td><td>MI</td></d≤0.50mm;>		MI
POL 偏光片	Point defects 点状不良	1. D≤0.25mm, Ignore (忽略) 2. 0.25mm <d≤0.50mm; ds≥10mm<br="" n≤5;="">3. 0.50mm<d, (不允许)<="" allowable="" not="" td=""><td></td><td>MI</td></d,></d≤0.50mm;>		MI
	Edge bubbles 边缘气泡	1. Within 1/2BM of the display area, it is not allowed 显示区往外 1/2BM 区域内,不允许 2. The display area is 1/2 outside the BM area, and it is not controlled 显示区往外1/2BM区域以外,不管控		MI
	Dirty/watermarked 脏污/水印	No dirt/water lines/finger marks are allowed, and must be wiped clean 不允许有脏污/水印/手指印,须擦拭干净方可		MI
	Warping 起翘	Not allowed 不允许		MI
	Attaching offset 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 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 混料	Mixing different types of POL or not using POL as required by the BOM,not allowed 不允许混贴不同型号的POL或未按BOM要求使用POL	MA	



Inspection area 检验区域	Inspection items 检验项目	Inspection specifications 检验规格	Defect c 缺陷	•
	Point defects 点状不良	1. D≤0.25mm, Ignore (忽略) 2. 0.25mm <d≤0.50mm; ds≥10mm<br="" n≤5;="">3. 0.50mm<d, (不允许)<="" allowable="" not="" td=""><td></td><td>MI</td></d,></d≤0.50mm;>		MI
	Scratches 划伤	 W≤0.10mm; L≤5mm, Ignore (忽略) 0.10mm<w≤0.15mm; ds="" li="" l≤5mm;="" n≤5;="" ≥10mm<=""> 0.15mm<w; (不允许)<="" 5mm<l,="" allowable="" li="" not=""> There is a feeling scratch, Not allowable 有感划伤,不允许 </w;></w≤0.15mm;>		MI
TP&CG	Edges and corners cracked 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 2. Product back /产品背面: X≤0.5, Y≤0.5, Z≤1/2T; N≤5; DS≥10mm		MI
	Silk screen 丝印	The silk screen is clear, complete and correct 丝印清晰、完整、内容正确		MI
	Dirty 脏污 Broken	Non-wipeable dirt, not allowed 不可擦拭的脏污,不允许 Not allowable		MI
	破损 Ink color aberration	不允许	MA	
	油墨色差	ΔE>1, Not allowable (不允许)		MI
	Cover pinholes 针孔	1. D≤0.20mm, N≤5, DS≥10mm, allowable 2. D>0.20mm, intensive pinholes(密集型针孔), Not allowable(不允许)		MI
	IR holes IR孔	Dirt, deviation, color difference, etc. are not allowed 不允许脏污、偏位、色差等		MI
	Backlight separation 背光分离	Not allowable 不允许		MI
	Deformation of rubber iron and rubber frame 胶铁、胶框变形	Use the plug gauge 0.3mm on the flat surface and can snap in and judge NG 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 铁框氧化、卡不紧	Not allowable 不允许		MI
BL 背光	Backlight sticky solder beads, glue, etc 背面粘锡珠、残胶等	Not allowable 不允许		MI
1,7,0	Lnkjet coding, Barcode, QR code 喷码/条码/二维码	The Inkjet coding is clear and complete, the barcode and QR code can be scanned normally, and the content and format match 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.) 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 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	Inspection specifications		ategory
检验项目	检验规格	缺陷	父 別
Glass bright spots/dark spots	1. D≤0.25mm, Ignore (忽略)		
玻璃亮点/暗点	2. 0.25mm <d≤0.50mm; ds≥10mm<="" n≤5;="" td=""><td colspan="2">N</td></d≤0.50mm;>	N	
77. 143 E.M.	3. 0.50mm <d, (不允许)<="" allowable="" not="" td=""><td></td><td></td></d,>		
Mura	Use ND5% filter masking, visual invisibility is OK, 200~300Lux 使用ND5%遮盖,目视不可见即为OK, 200~300Lux		MI
Small bright dot	Use ND5% filter masking, visual invisibility is OK		2.07
细碎亮点	使用ND5%遮盖,目视不可见即为OK		MI
	1. Use ND5% filter masking, visual invisibility is OK		
Light leakage	使用ND5%遮盖,目视不可见即为OK		
漏光	2. If necessary, sign off on the sample		MI
	必要时, 签限定样		
	1. D≤0.25mm, Ignore (忽略)		
Backlight black/white dots	2 0.25mm <d≤0.50mm; ds≥10mm<="" n≤5;="" td=""><td></td><td>MI</td></d≤0.50mm;>		MI
背光黑点/白点			1411
Linear foreign bodies	1. W≤0.10mm; L≤5mm, Ignore (忽略)		
线状异物 (异物毛丝等)	2. $0.10 \text{mm} < W \le 0.15 \text{mm}$; $L \le 5 \text{mm}$; $N \le 5$; $DS \ge 10 \text{mm}$		MI
	3. 0.15mm <w; (不允许)<="" 5mm<l,="" allowable="" not="" td=""><td></td><td></td></w;>		
Black/White Print	Use ND5% filter masking, visual invisibility is OK		М
黑印/白印	使用ND5%遮盖,目视不可见即为OK		MI
The display is uneven	Use ND5% filter masking, visual invisibility is OK		3.67
显示不均匀	使用ND5%遮盖,目视不可见即为OK		MI
The brightness is uneven	Brightness uniformity < 85.0%, Not allowable		
亮度不均匀	亮度均匀性<85.0%, 不允许		MI
Displacement of the	元/文均为1上 <03.070, 行见的		
membrane	Not allowable		MI
膜材移位	不允许		IVII
Interference			
pattern/Newtonian pattern	Not allowable		MI
干涉纹/牛顿纹	不允许		1411
Display abnormal	Not allowable		
显示异常	不允许	MA	
	Not allowable		
No display		MA	
无显示	不允许		
Line/Missing Drawing	Not allowable	MA	
线条/缺画	不允许		
Splash screen	Not allowable	MA	
闪屏	不允许		
LCD grid	Not allowable	MA	
LCD网格	不允许	1.111	
Afterimage	Not allowable	MA	
残影	不允许	1717 1	
Wrong viewing angle	Not allowable	MA	
视角错误	不允许	1 V1 /- 1	
No touch	Not allowable	MA	
无触摸	不允许	1 VI / A	<u> </u>
Touch the jump point	Not allowable	N / A	
触摸跳点	不允许	MA	
Not sensitive	Not allowable	3.4.4	
触摸不灵敏	不允许	MA	