

Rev: V0

华夏彩光电(深圳)有限公司

Huaxia RGB Display (Shen Zhen) Co.,Ltd

规格书

Product Specification

客户名称 Customer	
客户项目号 Part NO	
产品型号 Part NO	H0185Y045XS V0
产品内容 Product type	Mode:Transmissive type .Normally black. TFTLCD Module LCD Module: 1.85"360RGB*360Dot 圆 MIPI/QSPI/8BIT/SRGB
客户确认签章 Signature by Customer:	

PREPARED BY	CHECKED BY	APPROVED BY
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Records of Revision 修改记录

Rev 版本号	Date 修改日期	Description 内容	Page 页	Remarks 注释
V0	2025/05/19	初 版	19	
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1 General Description 规格简介

This display module is a transmissive type color active matrix TFT(Thin Film Transistor) liquid crystal display (LCD) that uses amorphous silicon TFT as a switching device. This module is composed of a TFT LCD module, a driver circuit, and a back-light unit. The resolution of a 1.85" contains 360RGB x 360 dots and can display up to 262K colors.

该显示模块是一种采用非晶硅 TFT 作为开关器件的透射型彩色有源矩阵 TFT(薄膜晶体管)液晶显示器。该模块由 TFT 液晶显示模块、驱动电路和背光单元组成。1.85 英寸的分辨率包含 360RGB x 360 点,可显示高达 262K 的颜色。

2 Module Parameter 模组参数

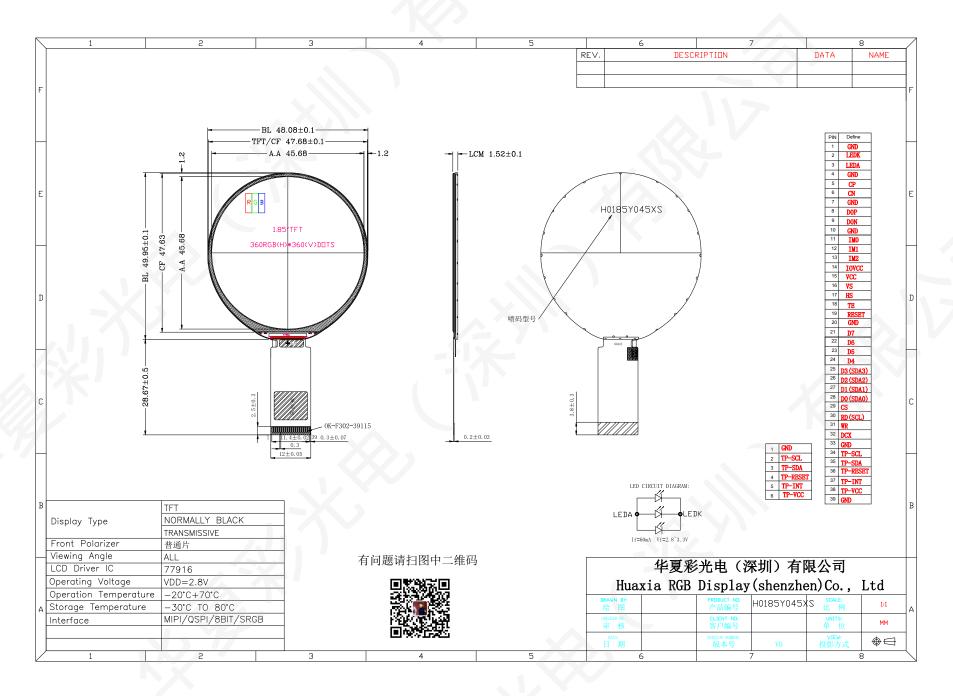
Features	Details	Unit
Display Size(Diagonal)显示尺寸(对角线)	1.85	inch
LCD type 液晶显示屏类型	α-Si TFT	-
Display Mode 显示模式	IPS / Transmissive / Normally Black	-
Resolution 分辨率	360RGB x 360	-
Active Area 显示区	45.68(H)×45.68(V)	mm
Module Outline 模组外形	48.08(H) ×49.95(V)×1.52(T)	mm
Display Colors 显示颜色	262K	-
Interface 接口	MIPI/QSPI/8BIT/SRGB	-
Driver IC 驱动 IC	77916	-
TP Viewing Area TP 视窗		mm
TP Outline(assembly) TP 外形	-	mm
Luminance on surface 亮度	400	cd/m²
View Direction 视角方向	All	Best image
Contrast ratio 对比度	1200:1	
Color gamut 色域	70%	
PPI 图像点密集度	200	-
Window effect 视窗效果	无一体黑	-
Cover plate surface effect 盖板表面效果	无 AF/AG	_
Operating Temperature 工作温度	-20~60	°C
Storage Temperature 储存温度	-30~80	°C
Weight 重量	TBD	g
连接器	OK-F302-39115	

Note 1: Excluding hooks, posts, FPC/FPC tail etc.

3 Mechanical Drawings 结构图

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4 Module Interface 模组接口定义

NO	SYMBOL]]	FUN	CTIO	N					
1	GND	Powe	Power Ground							
2	LEDK	LED	Catho	ode	W.F.	-				
3	LEDA	LED	Anod	le						
4	GND	Powe	r Gro	und		_				
5	СР	MIPI-	-DSI	clock	lane positive-end input	pin				
6	CN	MIPI-	-DSI	clock	lane negative-end input	pin				
7	GND	Powe	r Gro	und	y					
8	D0P	MIPI-	-DSI	data 1	ane positive-end input p	in. (Data lane 0 positive polarity))				
9	D0N	MIPI-	-DSI	data 1	ane negative-end input p	pin.(Data lane 0 negative polarity)				
10	GND	Powe	r Gro	und						
11	IM0	IM2	IM1	IMO	MPU Interface Mode	Data pin				
12	IM1	0	0	0	3-line 9bit serial I/F	SDA: in/out				
		0	0	1	MIPI_3-line 9bit serial I/F	SDA: in/out DP/DN				
		0	1	0	2 data lane serial I/F	SDA1: in/out SDA2: in				
		0	1	1	QSPII/F	SDA[3:0]: in/out				
13	IM2	1	0	0	RGB_3-line 9bit serial I/F	SDA: in/out DB[5:0]: out				
		1	0	1	RGB_4-line 8bit serial I/F	SDA: in/out DB[5:0]: out				
		1	1	0	4-line 8bit serial I/F	SDA: in/out				
		1	1	1	80-8bit parallel I/F	DB[7:0]				
14	IOVCC	Powe	r Sup	ply fo	or logic, VDDIO=1.65V	~3.3V.				
15	VCC	Powe	Power Supply for Analog, VDD=2.4V~3.3V							
16	VS	Vertic	Vertical (Frame) synchronizing input signal in RGB interface							
17	HS	Horiz	Horizontal (Line) synchronizing input signal in RGB interface							
18	TE		Tearing effect output pin to synchronize MCU to frame writing. This pin is low when it is not activated. If not used, please open it							
19	RESET		_		will reset the device and ow active	must be applied to properly initialize the				
20	GND	Powe	r Gro	und						

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		H01831043AS-V0
21	D7	Data signal for DBI Type B mode
22	D6	Data signal for DBI Type B mode
23	D5	Data signal for DBI Type B mode
24	D4	Data signal for DBI Type B mode
25	D3(SDA3)	Data signal for DBI Type B mode
26	D2(SDA2)	Data signal for DBI Type B mode
27	D1(SDA1)	Data signal for DBI Type B mode
28	D0(SDA0)	Data signal for DBI Type B mode
29	CS	Chip select pin of DBI Type B mode. Low active.
30	RD(SCL)	Read Control pulse H duration
31	WR	Write enable in MCU parallel interface
32	DCX	Display data/command selection pin in parallel interface
33	GND	Power Ground
34	NC	OPEN
35	NC	OPEN
36	NC	OPEN
37	NC	OPEN
38	NC	OPEN
39	GND	Power Ground

5 Application Circuit 应用电路

5.1 Backlight recommended circuit 背光电路参考

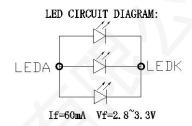
Motherboard driver backlight is need constant current circuit, if the rated voltage screen after light brightness difference. Current and power consumption of the machine are inconsistent, so recommend a backlight driving circuit is best rated current. It is recommended to use IC (AW9364). The reference circuit is as follows:

5.2Backlight recommended circuit 背光电路参数推荐

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Motherboard driver backlight is need constant current circuit:



3 灯并联

Note: constant current circuit for every LED, and though LED lamp current is less than 20mA.Recommand between 15mA and 20 mA for every LED.

5.3 Application Circuit 应用电路()

6 Absolute Maximum Ratings 绝对最大额定值

VSS=0V, Ta=25°C

Item	项目	Symbol	Min.最小	Max.最大	Unit 单位
	Power supply 电力供应	VDD	-0.3	+4.6	V
Supply Voltage 电源电压	Analog 模拟	-	-	-	V
	IO	IOVDD	-0.3	+4.6	V
Input Voltage 输入电压	Vi	-0.3	IOVDD+0.3	V	
Storage temperature 储存温	T_{stg}	-30	+70	°C	
Operating temperature 工作	T_{op}	-20	+60	°C	
Storage humidity 存储湿度	H_{stg}	10	Note 1	%RH	
Operating humidity 操作湿	H_{op}	10	Note 1	%RH	

Note 1: 90%RH max, If Ta is below 50°C; 60%RH max, If Ta is over 60°C.

7 Electrical Specification 电性规格

DC Characteristics 直流特性

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Item 项目	Item 项目			Typ.中间	Max.最大	Unit 单位
Supply Voltage 电源电压	Powersupply 电力供应	VDD	2.4	2.8	3.3	V
Supply voltage 电极电压	Analog	VCI	2.5	2.8	3.3	V
	IO	IOVDD	1.65	1.8/2.8	3.3	V
Logic Low input voltage 箱	介入电压低	$ m V_{IL}$	-0.3IOVDD	-	0.3IOVDD	V
Logic High input voltage \$	俞入电压高	$ m V_{IH}$	0.7IOVDD	-	IOVDD	V
Logic Low output voltage	输出电压低	V_{OL}	-	+	0.2IOVDD	V
Logic High output voltage	输出电压高	V_{OH}	0.8IOVDD	-	-	V
Current Consumption 电	Normal display 正常的显示	Ivdd	-	11	-	mA
流消耗	Standby mode 待机模式	Ivdd	-	60	-	uA
Frame Frequency 帧频		f_{FR}		60	-	Hz

8 Initialization Code 初始化代码

9 Optical Specifications 光学规格

9.1 Optical Specifications 光学规格

Ta=25°C, VDD=2.8V, TN LC+ Polarizer

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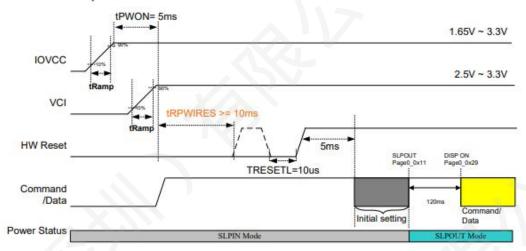
	Thy Rob					пито.	5Y045XS	0- V U
	Item		Cymbol	Condition	Spec	ification	规范	Unit
	· · · · · · · · · · · · · · · · · · ·		Symbol 标志	条件	Min. 最小	Typ. 中间	Max. 最大	单位
	Luminance of surface(I_f =20mA)		Lv	Normally viewing		400	-	cd/m²
	Contrast ratio 对	比度	CR	angle $\theta_X = \theta_Y = 0^{\circ}$	800	1200	-	-
Backlight On (Transmissive Mode)	Pagnanga tima IIII	分时间	TR	$\mathbf{O}_X - \mathbf{O}_Y = \mathbf{O}$	-	10	15	100.0
ve N	Response time 响应时间		TF	-	-	20	20	ms
issi		Red	XR		-	0.665	-	-
nsu		红	YR		-	0.324	-	
Tra	/	Green	XG		-	0.273	-	-
) uC	Chromaticity	绿	YG		-	0.594		-
iht (Transmissive 色度	Blue	XB	-	-	0.133	_	-
 klig	,	蓝	YB		-	0.122	-	-
Bac		White	XW		-	0.297	-	-
	5(2)	白	YW		-	0.337	-	-
		Horizo	θX+		80	85	-	
	 Viewing Angle 视角	ntal	θX-	Center	80	85		Deg.
	viewing ruigie 1/2/13	Vertical	θY+	CR≥10	80	85		Deg.
		Citical	θY-		80	85	-	
	NTSC Ratio(Ga	mut)	- (1	65	70	-	%

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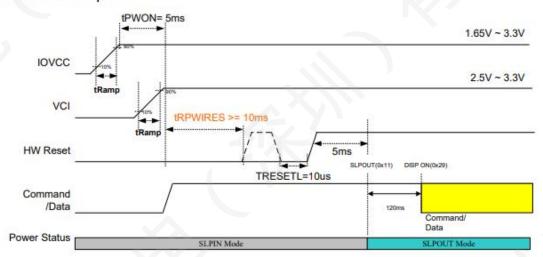
9.2 The power on/off sequence is illustrated below 电源启动/关闭顺序

Power on sequence



Option2: Host only send SLPOUT and DISP ON

Power on sequence



	Min	Тур	Max
Power up tRamp for VCI/IOVCC	0.2mS		20mS

9.3 Definition of Contrast Ratio 对比度的定义

Contrast is measured perpendicular to display surface in reflective and transmissive mode. The measurement condition is:

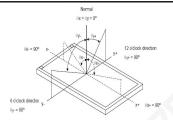
Measuring Equipment 测量设备	BM-7 or EQUI
Measuring Point Diameter 测点直径	3mm//1mm
Measuring Point Location 测点位置	Active Area centre point
Test pattern 测试模式	A: All Pixels white
Test pattern 侧 风溪风	B: All Pixel black
Contrast setting	Maximum

Definitions: CR (Contrast) = Luminance of White Pixel / Luminance of Black Pixel

9.4 Definition of Viewing Angles 视角的定义

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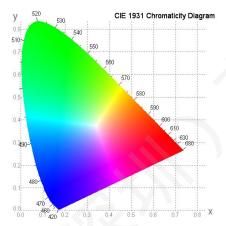
Measuring machine: LCD-5100 or EQUI

9.5 Definition of Color Appearance 色域的定义

R,G,B and W are defined by (x, y) on the IE chromaticity diagram

NTSC=area of RGB triangle/area of NTSC triangleX100%

Measuring picture: Red, Green, Blue and White (Measuring machine: BM-7)



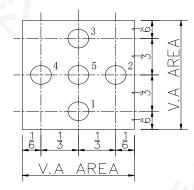
9.6 Definition of Surface Luminance, Uniformity and Transmittance

表面亮度、均匀性和透光率的定义

Using the transmissive mode measurement approach, measure the white screen luminance of the display panel and backlight.

- 9.6.1 Surface Luminance: LV = average (LP1:LP5)
- 9.6.2 Uniformity = Minimal (LP1:LP5) / Maximal (LP1:LP5) * 100%
- 9.6.3 Transmittance = LV on LCD / LV on Backlight * 100%

Note: Measuring machine: BM-7



10 Quality Assurance 质量标准

10.1 Purpose 目的

This standard for Quality Assurance assures the quality of LCD module products supplied to

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customer by HuaXia RGB Display.

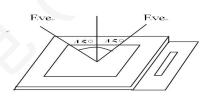
10.2 Agreement Items 协议项目

HuaXia RGB Display and customer shall negotiate if the following situation occurs:

- 10.2.1 Discrepancies between HuaXia RGB Display's QA standards and customer's QA standards.
 - 10.2.2 Additional requirement to be added in product specification.
 - 10.2.3 Any other special problem.

10.3 Standard of the Product Visual Inspection 产品外观检验标准

- 10.3.1 Appearance inspection:
- 10.3.1.1 The inspection must be under illumination about 1000 1500 lx, and the distance of view must be at $30\text{cm} \pm 2\text{cm}$.
- 10.3.1.2 The viewing angle should be 45° from the vertical line without reflection light or follows customer's viewing angle specifications.
 - 10.3.1.3 Definition of area: A Zone: Active Area, B Zone: Viewing Area.





10.3.2 Basic principle: A set of sample to indicate the limit of acceptable quality level must be discussed by both HuaXia RGB Display and customer when there is any dispute happened.

10.4 Inspection Specification 检验标准

Sampling plan according to GB/T2828.1-2012/ISO 2859-1: 1999 and ANSI/ASQC

Z1.4-1993, normal level 2 and based on:

Major defect: AQL 0.4 Minor defect: AQL 1.0

No.	Item 项目	Criteria (Unit: mm) 标准		
01	Black / White spot Foreign material (Round type) Pinholes Stain Particles inside cell. (Minor defect) 黑/白斑/异物 (圆类型)细胞内的针孔染色颗粒。(小瑕疵)	Area Size Acc. Qty		
02	Black and White line Scratch	W		



No.	Item 项目	H0185Y045XS-V0 Criteria (Unit: mm) 标准			
	Foreign material (Line type) (Minor defect) 黑白				
	线刮伤异物(类型)行 (小瑕疵)	Length	Width	Acc. Qty	
			W ≤ 0.03	Ignore	
		L ≦ 3	$0.05 < W \le 0.0$	08 2	
		/	0.08 < W	0	
)	Total	N≦2	
		Distance between	en 2 defects should m	ore than 10mm	apart.
	-12/	Scratches not viewable through the back of the display are acceptable.			
03	Glass Crack (Minor defect) 玻璃裂 纹(小瑕疵)	LCD with extensible crack line is unacceptable(When press the cracked LCD area, the line will expand, we define it is extensible crack line)			
	Glass Chipping Pad Area: (Minor defect) 玻璃碎片面积:(轻微		Length and Width c < 5.0, b< 0.4	Acc. Qty Ignore	
04	缺陷)		C \ 3.0, 0 \ 0.1	Ignore	
	Glass Chipping Rear			(-11	
	of		Length and Width	Acc. Qty	
No	PadArea:(Minordefect		c > 3.0, b< 1.0	1	
05) 玻璃切屑垫区后方:		c<3.0, b<1.0	2	
	(小瑕疵)		c< 3.0, b< 0.5	4	
		a <glass td="" thickness<=""></glass>			
	b 2 a				

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	ZIII/ KOD	H0185Y045XS-V0		
No.	Item 项目	Criteria (Unit: mm) 标准		
06	Glass Chipping Except Pad Area: (Minor defect) 除垫区外的玻 璃切屑:(小瑕疵)	Length and Width Acc. Qty c ≤0.6, b< 5.0 Ignore aGlass Thickness		
07	Glass Corner Chipping: (Minor defect) 玻璃切角:(小 瑕疵)	Length and Width Acc. Qty c < 2.0, b< 1.5 Ignore c < 1.5, b< 2 Ignore a <glass td="" thickness<=""></glass>		
08	Glass Burr: (Minor defect) 玻璃磨:(小瑕疵)			
09	FPC Defect: (Minor defect) FPC 缺陷:(小瑕疵)	 9.1 Dent, pinhole width a<w 3.<="" li=""> (w: circuitry width.) 9.2 Open circuit is unacceptable. 9.3 No oxidation, contamination and distortion. </w>		
10	Screen deformation 屏幕上的变形	Test for insertion of plug gauge at highest warping point: (3.1-6.0inches) H≤0.3MM The client has special requirements,according to drawing		

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			H0185Y045XS-V0	
No.	Item 项目	Criteria (Unit: mm) 标准		
		Diameter	Acc. Qty	
11	Bubble on Polarizer	φ≤0.15	Ignore	
	(Minor defect) 偏光片	0.15 <φ≤0.25	2	
	上的气泡(小瑕疵)	0.25 <φ≤0.3	1	
		0.3 < φ	0	
		Diameter	Acc. Qty	
	Dent on Polarizer	φ≤0.15	Ignore	
12	(Minor defect) 偏光片	0.15 <φ≤0.25	2	
	上的凹痕(小瑕疵)	0.2 5<φ≤0.30	1	
	/ <u>-</u>	0.3< φ	0	
13	Bezel 边框	13.1 No rust, distortion on the Bezel.		
14	Touch Panel 触控面板	D: Diameter W: width L: length 14.1 Spot: D≤0.20 is acceptable 0.20 <d≤0.3, 3="" acceptable="" d="" qty,="">0.3 is unacceptable 14.2 Dent (dot): D≤0.20 is acceptable 0.20<d≤0.3, 3="" acceptable="" d="" qty,="">0.30 is unacceptable 2dots are acceptable and the distance between defects should more than 10 mm. Dent (line) According to the limit sample 14.3 Scratch: W≤0.03, L≤10 is acceptable, 0.03<w≤0.10, 3="" acceptable="" l≤10,="" qty,="" w="">0.10 is unacceptable. Distance between 2 defects should more than 10 mm.</w≤0.10,></d≤0.3,></d≤0.3,>		
15	PCB	15.1 No distortion or contamination on PCB terminals.15.2 All components on PCB must same as documented on the BOM/component layout.15.3 Follow IPC-A-600F.		
16	Soldering 焊接	Follow IPC-A-610C standard		

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No.	Item 项目	Criteria (Unit: mm) 标准	
		The below defects must be rejected.	
		17.1 Missing vertical / horizontal segment,	
		17.2 Abnormal Display.	
		17.3 No function or no display.	
		17.4 Current exceeds product specifications.	
		17.5 LCD viewing angle defect.	
		17.6 No Backlight.	
	Electrical Defect	17.7 Dark Backlight.	
17	(Major defect) 电气	17.8 Touch Panel no function.	
	缺陷(主要缺陷)	17.9 Dark Dot –one Allowed.	
	7(=3,7)	17.10 Bright Dot – one Allowed.	
		Remark:	
	(1-)	1. A pixel defect is acceptable if one color is none functional and	
		causes a bright dot. The display may have one case where one	
		color is out and cause a dark dot.	
		2. Bright dot caused by scratch and foreign object accords to	
		item1.	
18	Light leak 漏光	Yellow light OK; White light, According to the limit sample	

Remark: Visual and cosmetic defects are rejectable only if these fall within the LCD viewing area.

10.5 Classification of Defects 缺陷的分类

Visual defects (Except no / wrong label) are treated as minor defect and electrical defect is major.

10.6 Identification/marking criteria 识别/评分标准

Any unit with illegible / wrong /double or no marking/ label shall be rejected.

10.7 Packing 包装

10.7.1 There should be no damage of the outside carton box, each packaging box should has label in the correct location per packing drawing requirement.

10.7.2 All direct package materials shall offer ESD protection.

11 Reliability Specification 可靠性规范

Item	Condition	Cycle Time	Quantity	Remark
项目	条件	周期时间	数量	备注
Constant Temp. and Constant	X	O 3		
Humidity Operation Test 恒温恒湿	$+40 \pm 3$ °C,90 ± 3 %RH	96hrs		
运行试验				
High Temp. Operation Test 高温操	$+70 \pm 3^{\circ}{ m C}$	96hrs		*1
作试验	170±3 C	Joins		1
Low Temp. Operation Test 低温操	$-20\pm3^{\circ}\mathrm{C}$	96hrs		
作试验	-20 ± 3 C	POIIIS		
Thermal Shock Test 热冲击试验	-20 ± 3 °C (30min)	10cycles		

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	+70 ± 3°C (30min)			
ESD Test(end product) ESD 测试	150pF, 330 Ω , ±2KV,Contact	104:		*2 *2
(最终产品)	150pF, 330Ω, ±6KV, Air	10times		*2, *3
Vibration Took(for no also aim a) 担対	Frequency: 10Hz to 55Hz		0	
Vibration Test(for packaging) 振动 测试(包装)	to10Hz,Swing:1.5mm,time:	6hrs	One inner	*4
侧风(飞衣) 	X,Y,Z each 2H.		carton	

Note 1. For humidity test, DI water should be used.

Inspection Standard: Inspect after 1-2hrs storage at room temperature, the sample shall be free from the following defects:

- Air bubble in the LCD
- Seal Leakage
- Non-display
- Missing Segment
- Glass Crack
- IDD is greater than twice initial value.
- Others as per QA Inspection Criteria
- Note 2. No defect is allowed after testing

The End Product ESD value is only indicative and depends on customer ESD protection design for the whole system.

Note 3. ESD should be applied to LCD glass panel, not other areas (such as on IC and so on) IDD should be within twice initial value.

In case of malfunction defect caused by ESD damage, if it would be recovered to normal state after resetting, it would be judged as a good part.

Note 4. Only upon request.

12 Precautions and Warranty 注意事项和保证

12.1 Safety 安全

- 12.1.1 The liquid crystal in the LCD is poisonous. Do not put it in your mouth. If the liquid crystal touches your skin or clothes, wash it off immediately using soap and water.
- 12.1.2 Since the liquid crystal cells are made of glass, do not apply strong impact on them. Handle with care.

12.2 Handling 处理

- 12.2.1 Reverse and use within ratings in order to keep performance and prevent damage.
- 12.2.2 Do not wipe the polarizer with dry cloth, as it might cause scratch. If the surface of the LCD needs to be cleaned, wipe it swiftly with cotton or other soft cloth soaked with petroleum IPA, do not use other chemicals.

12.3 Operation 操作

- 12.3.1 Do not drive LCD with DC voltage
- 12.3.2 Response time will increase below lower temperature
- 12.3.3 Display may change color with different temperature
- 12.3.4 Mechanical disturbance during operation, such as pressing on the display area, may

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cause the segments to appear "fractured".

12.4 Static Electricity 静电

- 12.4.1 CMOS LSIs are equipped in this unit, so care must be taken to avoid the electro-static charge, by ground human body, etc.
- 12.4.2 The normal static prevention measures should be observed for work clothes and benches.
- 12.4.3 The module should be kept into anti-static bags or other containers resistant to static for storage.

12.5 Limited Warranty 有限质量保证

- 12.5.1 Unless otherwise agreed between HuaXia RGB Display and customer, HuaXia RGB Display will replace or repair any of its LCD and LCM which HuaXia RGB Display found to be defective electrically and visually when inspected in accordance with HuaXia RGB Display Quality Standards, for a period of one year from date of shipment.
- 12.5.2 The warranty liability of HuaXia RGB Display is limited to repair and/or replacement. HuaXia RGB Display will not be responsible for any consequential loss.
- 12.5.3 If possible, we suggest you use up all modules in six months. If the module storage time over twelve months, we suggest that recheck it before the module be used.

13 Packaging 包装

TBD

14 Prior Consult Matter 免责声明

- 1. For HuaXia RGB Display standard products, we keep the right to change material, process for improving the product property without prior notice to our customer.
- 2. For OEM products, if any changes are needed which may affect the product property, we will consult with our customer in advance.
- 3. If you have special requirement about reliability condition, please let us know before you start the test on our samples.

Reference 参考

Item 项目	Description 描述	Revision 修订
77916	IC Data sheet	V1.0
Panel 1.85 寸 360X360	LCM assembly drawing	V0

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