SPECIFICATION

Revision: A

Product Model:XSINQ3525CV001HFC-N

Customer Model:

Designed by	R&D Checked by	Quality Department by	Approved by

Approval by Customer

OK

NG, Problem survey:

Approved By ___张庆涛

Revision Record

VEV NO.	REV DATE	CONTENTS	Note
Α	2015-3-11	NEW ISSUE	

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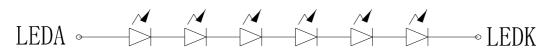
1. General linformation

ITEM	STANDARD VALUES	UNITS
LCD type	3.47"TFT	
Dot arrangement	320 (RGB) × 480	dots
Driver IC	IL19488	
Module size	55.10(W) ×85.10(H)×2.4(T)	mm
Active area	48.96(W) ×73.44 (H)	mm
Dot pitch		mm
Operating temperature		${\mathbb C}$
Storage temperature		${\mathbb C}$
Back Light	6 White LEDS	
Weight	TBD	g

2 .Absolute Maximum Ratings

ITEM	Symbol	MIN	MAX	UNITS
Power supply voltage 1	VCC	2.5	3.3	V
Power supply voltage 1	IOVCC	1.65	3.3	V
Operating temperature	Topr	-20	+70	${\mathfrak C}$
Storage temperature	Tstg	-30	+80	${\mathbb C}$
Humidity	RH		90%(Max40	RH
			°C)	

3.BacklightCharasterics



If=15mA Vf=19.2V

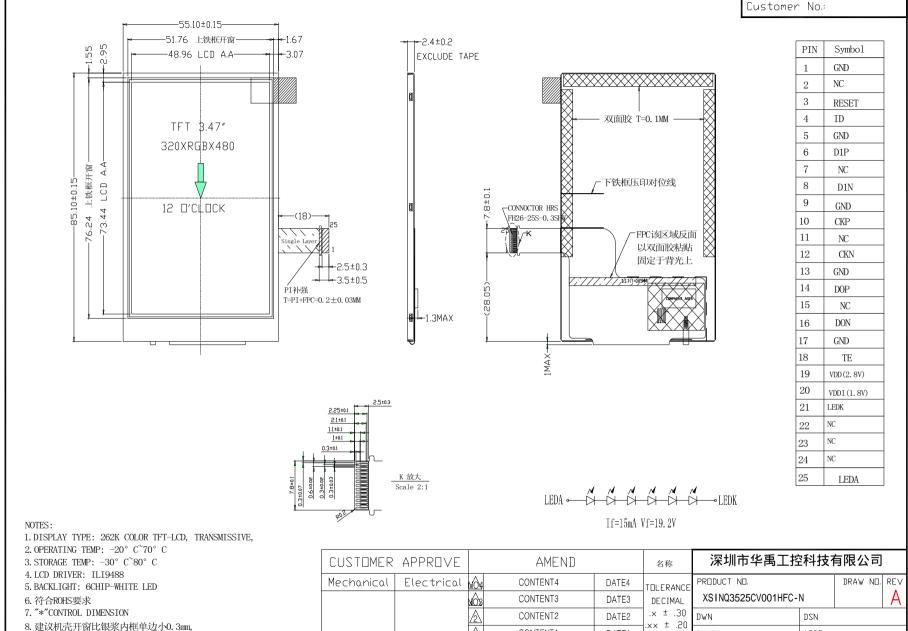
Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition	Note
Supply Voltage	Vf	18	19.2	20.4	V	lf=40 mA	-
Supply Current	lf	-	20	-	mA	-	-
Reverse Voltage	Vr	-	-	5	V	10uA	
Power dissipation	Pd	-	384	-	mW	-	
Luminous Intensity for LCM		-	tbd	-	Cd/m ²	If=40 mA	
Uniformity for LCM	-	80	-	-	%	If=40 mA	
Life Time	-	50000	-	-	Hr	lf=40 mA	-
Backlight Color	White						

REV

Dimensions External

4

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CONTENT1

CONTENT

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APPD

5. Interface Description

PIN NO.	PIN NAME	DESCRIPTION
1	GND	System Ground
2	NC	Not Control
3	RESET	Reset Signal
4	ID	ID
5	GND	System Ground
6	D1P	Positive polarity of low voltage differential data 2 signal
7	NC	Not Control
8	D1N	Negative polarity of low voltage differential data2 signal
9	GND	System Ground
10	CKP	Positive polarity of low voltage differential clock signal
11	NC	Not Control
12	CKN	Negative polarity of low voltage differential clock signal
13	GND	System Ground
14	D0P	Positive polarity of low voltage differential data 1 signal
15	NC	Not Control
16	D0N	Negative polarity of low voltage differential data1 signal
17	GND	System Ground
18	TE	Tearing Effect Output Signal
19	VDD	Power Supply For LCD (2.8V)
20	VDDI	Power Supply For LCD(1.8Vor2.8V)
21	LEDK	Power Supply For LED Backlight Cathode Input
22	NC	Not Control
23	NC	Not Control
24	NC	Not Control
25	LEDA	Power Supply For LED Backlight Anode Input

6. Reliability Test Conditions And Methods

NO	Item Condition		Method	
1	High / Low Temperature Storage	60°C/-20°C 500hrs	Check and record every 96Hrs	
2	High / Low 50°C /-10°C 500hrs (operating mode)		Check and record every 96Hrs	
3	High Temperature High Humidity Operating	40℃ 90% RH, 120Hrs	Check and record every 48hrs	
4	-30°C(30Min) — ▶25°C(5Min) Thermal Shock -30°C(30Min) — ▶25°C(5Min) 80°C(30Min) (conversion time, : 5 sec) 20 cycles		Each 10 cycles end , check	
5	Vibration	10Hz~55Hz~10Hz Amplitude: 1.5mm 2hrs for each direction(X,Y,Z)	Each direction end, Check the Appearance and Electrical Characteristics	
6	Static Electricity Gap mood: ±1KV~±8KV (10 times air discharge with positive/negative voltage voltage gap : 1kv) Touch mood: ±1KV~±2KV		Each discharge end, Check the Electrical Characteristics	
7	Slump	Free faller movement for each side cording angle (75cm High 6 sides 2 angle 2 cording)	End	

7.Inspection Standard

Outline In accord with drawing Position-fin	
ding Dimension Assemble Dimension In accord with drawing	
Round type: non display Unit: mm	
y Dimension Qualifie	ed Quantity
$\begin{array}{c c} & & & \hline \\ \hline & \hline \\ & & \\ \hline \\ & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\$	nore
spots, white spots (Decorated by the spots) 0.1 <d≤0.15< td=""><td>3</td></d≤0.15<>	3
(Round type) 0.15 <d≤0.25< td=""><td>2</td></d≤0.25<>	2
D>0.25	0
Unit : mm	
Length Width	Qualified Quantity
- ≪0.02	Ignore
LCD black spots, 0.02 <w≤0.03< td=""><td>2</td></w≤0.03<>	2
(Line	
Style) ≤2 0.03 <w≤0.05< td=""><td>1</td></w≤0.05<>	1
- D>0.05 AC	cording to circle

	ı			
05	LCD Scratch 、 Threadlike Fiber	Same to NO.3 circle sightline and surface of LCD is vertical (2)Same to NO.3 line style		
06	POL	It is not admissible that POL is beyond the edge of glass, else, unqualified. It is essential that POL is over the 50 percent of width of frame, else, unqualified. According to the drawing in case of special definition.		
07	Brightness	In accord with product specification	Drive condition is according to specification Measure location is in Follow Picture 3、Adjust brightness instrument tozero, burrow against the surface of LCD, press "measure", record when the display is steady. (YOKOGAWA-3298) Measure location	
08	CR (Max)	According to specification	According to product specification Measure instrument (DMS-501)	
09	Response time	According to specification	According to product specification Measure instrument (DMS-501)	
10	Viewing angle	According to specification	According to product specification Measure instrument (DMS-501)	
11	Vibration、 Ring	Compare with the sample customer supply	Compare with the sample customer supply when assemble	

8. Handling Precautions

8.1 Mounting method

The LCD panel of SC LCD 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.

8.2 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.

8.3 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.

8.4 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

8.5 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.

8.6 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

8.7 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

9. Precaution For Use

9.1

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.

9.2

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 SC 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.

10 Packing Method

To Be Determined