AZ DISPLAYS

SPECIFICATIONS FOR LIQUID CRYSTAL DISPLAY

CUSTOMER APPROVAL					
※ PART NO. : <u>ATM0680L3B-CT(AZ DISPLAYS)TFT MODULE SPEC PRELIMINARY</u>					
APPROVAL		COMPANY CHOP			
CUSTOMER					

COMMENTS

AZ DIS	AZ DISPLAYS ENGINEERING APPROVAL						
DESIGNED BY	DESIGNED BY CHECKED BY APPROVED BY						
XW							

ATM0680L3B-CT(AZ DISPLAYS)TFT MODULE PRELIMINARY

REVISION	REVISION DATE	PAGE	CONTENTS
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1. GENERAL SPECIFICATIONS

Item	Specification	Remark
1. LCD size	6.86 inch(Diagonal)	
2. Driver element	a-Si TFT active matrix	
3. Resolution	480x(RGB)x1280	
4. Display mode	Normally Black, Transmissive, IPS	
5. Dot pitch (W*H)	0.0418mm(W) x 0.1254mm(H)	
6. Pixel pitch(W*H)	0.1254mm(W) x 0.1254mm(H)	
7. Active area(W*H)	60.192mm(W) x 160.512mm(H)	
8. Module size (W*H)	72.69mm(W) x 181mm(H) x 7mm(D)	Note 1
9. Surface treatment	Clear	
10. Color arrangement	RGB-stripe	
11. Color	16.7M	
12. Viewing angle (L/R/T/B)	80/80/80	
13. Interface	LVDS interface	
14. LCD controller	NV3051F1	
15. LCM brightness	400 cd/m2 (Typ.)	
16. Backlight driving condition	120mA @9.3V	
17. Touch panel	Capacitive	
18. Touch controller	FT7311	
19. Operation temperature	-20~70 °C	
20. Weight	T.B.D	
21. RoHS	RoHS compliant	

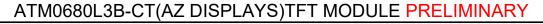
Note 1: Please refer to mechanical drawing.

2. PIN ASSIGNMENT

TFT LCD Panel Driving Section

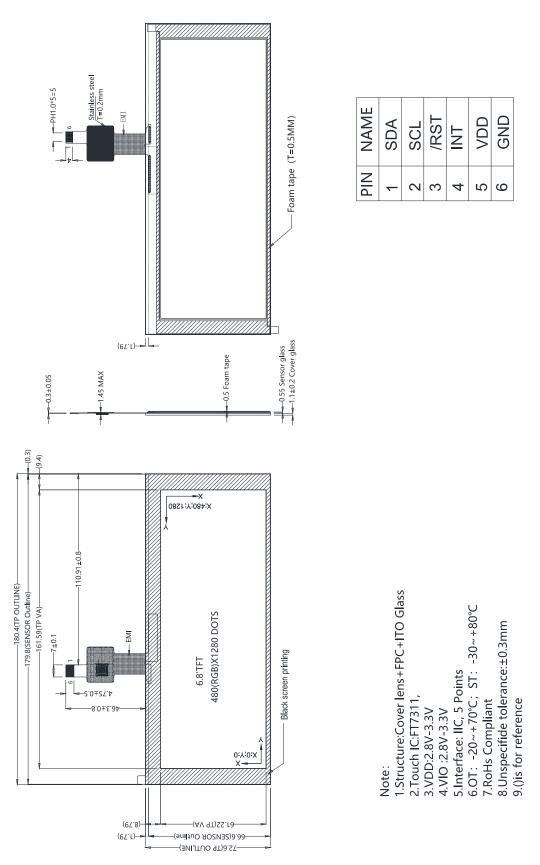
Pin No.	Symbol	Function	Level	Note
1	GND	Ground	Р	
2	D0P	LVDS data Lane 0 positive	1	
3	D0N	LVDS data Lane 0 negative	I	
4	GND	Ground	Р	
5	D1P	LVDS data Lane 1 positive	I	
6	D1N	LVDS data Lane 1 negative		
7	GND	Ground	Р	
8	CLKP	LVDS Clock positive	I	
9	CLKN	LVDS Clock negative		
10	GND	Ground	Р	
11	D2P	LVDS data Lane 2 positive	1	
12	D2N	LVDS data Lane 2 negative	I	
13	GND	Ground	Р	
14	D3P	LVDS data Lane 3 positive	I	
15	D3N	LVDS data Lane 3 negative	I	
16~17	GND	Ground	Р	
18~19	VCC_1V8	I/O power supply(1.8V)	Р	
20	IFSEL	0V: LVDS	I	
21	NC	No connection	-	
22	NC	No connection	-	
23	NC	No connection	-	
24	RST	Reset signal	I	
25	STBYB	LVDS mode, 1.8V: Normal operation, 0V: Standby	I	
26	NC	No connection	-	
27	GND	Ground	Р	
28~29	К	Power for LED backlight(Cathode)	Р	
30	GND	Ground	Р	
31	NC	No connection	-	
32~33	GND	Ground	Р	
34	NC	No connection	-	
35~36	А	Power for LED backlight(Anode)	Р	
37	GND	Ground	Р	
38~39	VDD	Power supply(3.3V)	Р	
40	NC	No connection	-	

I: input, O: output, P: Power



Tout Panel Section

Recommended connector: Hirose FH12-6S-1SH(55) or compatible



3. Operating Specification

3.1.1 ABSOLUTE MAXIMUM RATINGS

ltem	Symbol	Val	ues	Unit	Remark	
Rem	Symbol	Min.	Max.	Onit	Remark	
Power Voltage	V _{DD}	-0.3	3.6	V		
I/O Power Voltage	V _{CC}	-0.3	3.0	V		
Supply Voltage	VSP	4.5	6.0	V		
Supply Voltage	VSN	-4.5	-6.0	V		
Operation Temperature	T _{op}	-20	70	°C		
Storage Temperature	T _{ST}	-30	80	°C		
LED Reverse Voltage	V _R	-	5.0	V	Each LED Note 2	
LED Forward Current	I _F		50	mA	Each LED	

Note 1: The absolute maximum rating values of this product are not allowed to be exceeded at any times. Should a module be used with any of the absolute maximum ratings exceeded, the characteristics of the module may not be recovered, or in an extreme case, the module may be permanently destroyed.

Note 2: V_R Conditions: Zener Diode 30mA

3.1.2 Typical Operation Conditions

ltem	Symbol		Values	Unit	Remark	
item	Symbol	Min.	Тур.	Max.	Onic	Remark
Logis Power Voltage	V _{DD}	3.0	3.3	3.6	V	Note 1
I/O Power Voltage	IOVcc	1.6	1.8	2.0	V	
Input Logic High Voltage	V _{IH}	$0.7 \text{DV}_{\text{DD}}$		DV_{DD}	V	Note 2
Input Logic Low Voltage	V _{IL}	0		$0.3 DV_{DD}$	V	Note 2
Power consumption	I _{DD}		60	120	mA	Note 1

Note 1: V_{DD} setting should match the signals output voltage of customer's system board. **Note 2**: DCLK,HS,VS,RESET,DE,R0~R5,G0~G5,B0~B5,.

3.1.3 Backlight driving conditions

ltem	Symbol		Values	Unit	Remark		
nem	Symbol	Min.	Тур.	Max.	Unit	Remark	
Voltage for LED Backlight	VL	8.4	9.3	9.6	V	Note 1	
Current for LED Backlight	I _L =30mA*4		120		mA		
LED life time		20000			Hr	Note 2	

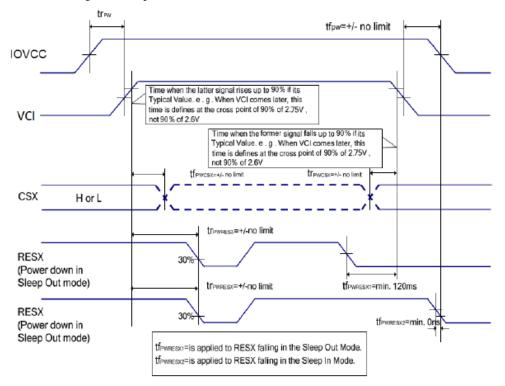
Note 1: The LED Supply Voltage is defined by the number of LED at Ta=25 $^{\circ}$ C and I_L =120mA.

Note 2: The "LED life time" is defined as the module brightness decrease to 50% original brightness at Ta=25°C and I_L =120mA.

3.2 Power on/off sequence

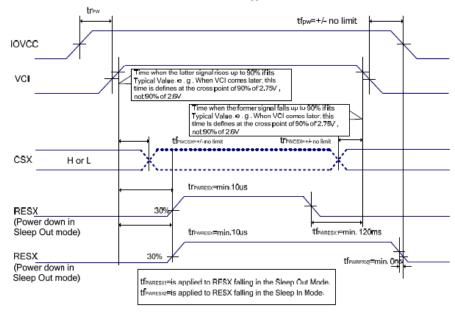
Case 1 – RESX line is held high or unstable by host at power on

If RESX line is held High or unstable by the host during Power On, then a Hardware Reset must be applied after both VCI and IOVCC have been applied – otherwise correct functionality is not guaranteed. There is no timing restriction upon this hardware reset.



Case 2 - RESX line is held low or unstable by host at power on

If RESX line is held Low (and stable) by the host during Power On, then the RESX must be held low for minimum 10sec after both VCI and IOVCC have been applied.



3.3 Input Signal Timing

3.3.1 DC electrical characteristics

_			Sp	ecifica	tion		
Parameter	Symbo	l Conditions	MIN	TY	1	Unit	Notes
Power & Operation Voltage	,						
Analog Operating voltage	VCI	Operating Voltage	2.5	2.8	6.0	v	
Logic Operating voltage	IOVCC	I/O supply voltage	1.65	1.8	3.6	v	
MIPI interface operating voltage	VDDAM	I MIPI supply voltage	1.75	-	6.0	v	Note1
Input/Output							,
Logic High level input voltage	VIH	-	0.7*IOVCC	-	IOVCC	v	
Logic Low level input voltage	VIL	-	VSS	-	0.3*IOVCC	v	
Logic High level output voltage	VOH	IOH = -0.1mA	0.8*IOVCC	-	IOVCC	v	
Logic Low level output voltage	VOL	IOL = +0.1mA	VSS	-	0.2*IOVCC	V	
Logic Input leakage current	IIL	Vin=IOVCC or VSSI	-0.1	-	+0.1	uA	
VCOM Operation			1				
VCOM voltage	VCOM	-	-3.375	-1.0	0	V	
Source Driver							
Source output range	Vsout	-	VGMN+0.1	-	VGMP-0.1	V	
Gamma positive reference voltage	VGMP	-	2.62	-	5.68	v	
Gamma negative reference voltage	VGMN	-	-5.68	-	-2.62	v	
Source output settling time	Tr	Below with 99% precision	-	TBD	-	us	
Output deviation voltage	V,dev	Sout >=+4.2V, Sout<=+0.8V	-	-	TBD	mV	
(Source positive output channel)		+4.2V>Sout>+0.8V	-	-	TBD	mV	
Output deviation voltage	V,dev	Sout <=-4.2V, Sout>=-0.8V	-	-	TBD	mV	
(Source negative output channel)		-4.2V <sout<-0.8v< td=""><td>-</td><td>-</td><td>TBD</td><td>mV</td><td></td></sout<-0.8v<>	-	-	TBD	mV	
Output offset voltage	VOFFSET	-	-	-	TBD	mV	
Reference Voltage							
Internal reference voltage	VREF		1.876	2.00	2.125	v	
Booster operation							
1 st booster output voltage −	VSP		4.5		6	v	
i booster output vonage	VSN		-6		-4.5	v	
2ndbooster output voltage	VGH		11.0		18.0	V	
Current Consumption	VGL		-15.5		-7.0	V	
Current Consumption					1		
Sleep-IN mode	IIOVCC	RESX=High		TBD	TBD	uA	
	IVCI			TBD	TBD	uA	Note2
Deep standby mode	HOVCC	RESX=High		TBD	TBD	uA	
-	IVCI	-		TBD	TBD	uA	

Note1. VDDAM are used as the power of MVDD LDO, the voltage level can't be lower than 1.75V Note2. The power/temperature conditions for Current consumption (Sleep-IN) part is (VCI, VDDAM)

=3.0V, IOVCC=1.8V@25°C

(These values might be updated after further evaluation.)

3.3.2 AC CHARACTERISTICS

Please refer to NV3051F1 specification.

4.0 OPTICAL SPECIFICATIONS

ltem	Symbol	Condition	Values			Unit	Remark
	Symbol	Condition	Min.	Тур.	Max.	Onit	Neillaik
	θL	Φ=180°(9 O'CLOCK)	80	85			Note 1
Viewing Angle	θ_{R}	Φ=0°(3 O'CLOCK)	80	85		degree	
(CR ≥10)	θ_{T}	Φ=90°(12 O'CLOCK)	80	85		uegree	
	θ_{B}	Φ=270°(6 Ο'CLOCK)	80	85			
Response Time	$T_{ON \text{+}}T_{OFF}$			30	35	msec	Note 3
Contrast Ratio	CR		650	800			Note 4
	W _x	Normal	0.26	0.31	0.36		Note 2
Color Chromaticity	Wy	$\Theta = \Phi = 0^{\circ}$	0.28	0.28 0.33	0.38		Note 5
	۷۷Y	0-4-0	0.20	0.55			Note 6
Luminance	L		330	400		cd/m ²	Note 6
Luminance Uniformity	YU		75	80		%	Note 7

Test Conditions:

1. IL=120mA (Backlight current), the ambient temperature is 25° C.

2. The test systems refer to Note 2.

Note 1: Definition of viewing angle range

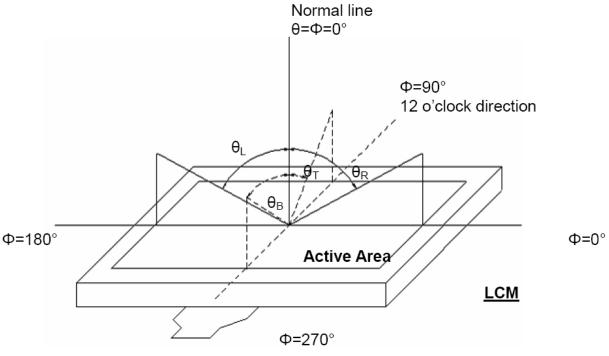


Figure 4.1 Definition of viewing angle.

Note 2: Definition of optical measurement system.

The optical characteristics should be measured in dark room. After 30 minutes operation, the optical properties are measured at the center point of the LCD screen. (Response time is measured by Photo detector TOPCON

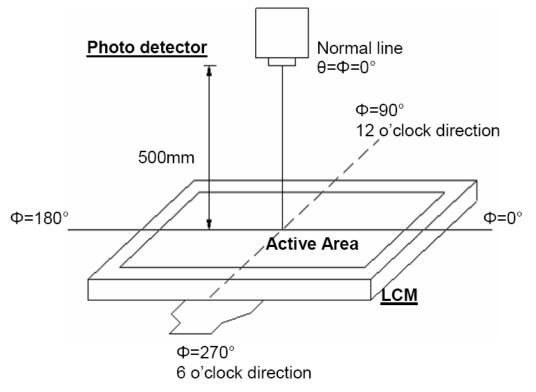


Figure 4.2 Optical measurement system setup

Note 3: Definition of Response time

The response time is defined as the LCD optical switching time interval between "White" state and "Black" state. Rise time (TON) is the time between photo detector output intensity changed from 90% to 10%. And fall time (TOFF) is the time between photo detector output intensity changed from 10% to 90%.

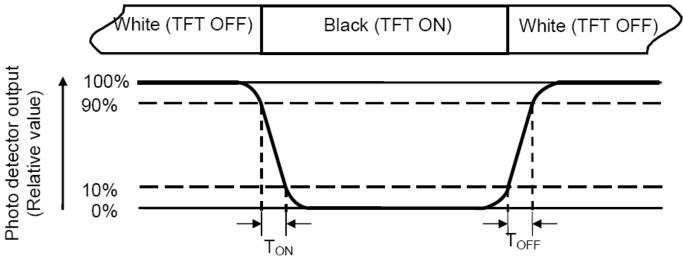


Figure 4.3 Definition of response.

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Note 4: Definition of contrast ratio

 $Contrast ratio(CR) = \frac{Luminance measured when LCD on the "white" state}{Luminance measured when LCD on the "black" state}$

Note 5: Definition of color chromaticity (CIE1931)

Color coordinates measured at center point of LCD.

Note 6: All input terminals LCD panel must be ground while measuring the center area of the panel.

Note 7: Definition of Luminance Uniformity

Active area is divided into 9 measuring areas (Refer to Fig. 4.4). Every measuring point is placed at the center of each measuring area.

Luminance Uniformity (Yu) =
$$\frac{B_{min}}{B_{max}}$$

L-----Active area length W----- Active area width

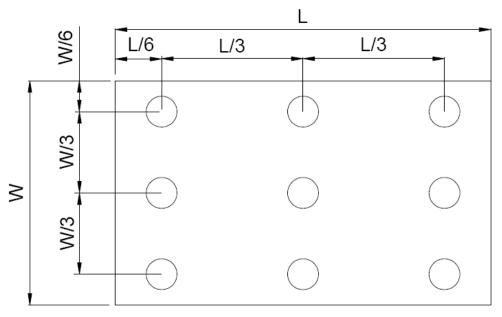


Figure 4.4 Definition of measuring points.

Bmax: The measured maximum luminance of all measurement position. Bmin: The measured minimum luminance of all measurement position.

5. RELIABILITY TEST

ltem	Test Condition Item	Remark
High temperature storage	Ta= 80 ºC 96hrs	Note 1 Note 4
Low temperature storage	Ta=-30 °C 96hrs	Note 1 Note 4
High temperature operation	Ts= 70 °C 96hrs	Note 2 Note 4
Low temperature operation	Ts=-20 °C 96hrs	Note 1 Note 4
High temperature/High humidity operation	90% RH 60°C 96hrs	Note 4
Thermal Shock	-30 $^{\circ}$ C/30 min ~ +80 $^{\circ}$ C/30 min for a total 50 cycles, Start with cold temperature and end with high temperature.	Note 4
Vibration test	Freq:10~55~10Hz Amplitude:1.5mm 2 hours for each direction of X,Y,Z (6 hours for total)	
Mechanical shock	100G 6ms,±X, ±Y, ±Z 3 times for each direction	
Package vibration test	Random Vibration : 0.015G*G/Hz from 5-200HZ, -6dB/Octave from 200-500HZ 2 hours for each direction of X. Y. Z. (6 hours for total)	
Package drop test	Height:60 cm 1 corner, 3 edges, 6 surfaces	
Electro static discharge	\pm 2KV, Human Body Mode, 100pF/1500Ω	

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.

6. PRECAUTION FOR USING LCM

- 1. When design the product with this LCD Module, make sure the viewing angle matches to its purpose of usage.
- 2. As LCD panel is made of glass substrate, Dropping the LCD module or banging it against hard objects may cause cracking or fragmentation. Especially at corners and edges.
- 3. Although the polarizer of this LCD Module has the anti-glare coating, always be careful not to scratch its surface. Use of a plastic cover is recommended to protect the surface of polarizer.
- 4. If the LCD module is stored at below specified temperature, the LC material may freeze and be deteriorated. If it is stored at above specified temperature, the molecular orientation of the LC material may change to Liquid state and it may not revert to its original state. Excessive temperature and humidity could cause polarizer peel off or bubble. Therefore, the LCD module should always be stored within specified temperature range.
- 5. Saliva or water droplets must be wiped off immediately as those may leave stains or cause color changes if remained for a long time. Water vapor will cause corrosion of ITO electrodes.
- 6. If the surface of LCD panel needs to be cleaned, wipe it swiftly with cotton or other soft cloth. If it is not still clean enough, blow a breath on the surface and wipe again.
- 7. The module should be driven according to the specified ratings to avoid malfunction and permanent damage. Applying DC voltage cause a rapid deterioration of LC material. Make sure to apply alternating waveform by continuous application of the M signal. Especially the power ON/OFF sequence should be kept to avoid latch-up of driver LSIs and DC charge up to LCD panel.
- 8. Mechanical Considerations
 - a) LCM are assembled and adjusted with a high degree of precision. Avoid excessive shocks and do not make any alterations or modifications. The following should be noted.
 - b) Do not tamper in any way with the tabs on the metal frame.
 - c) Do not modify the PCB by drilling extra holes, changing its outline, moving its components or modifying its pattern.
 - d) Do not touch the elastomer connector; especially insert a backlight panel (for example, EL).
 - e) When mounting a LCM makes sure that the PCB is not under any stress such as bending or twisting. Elastomer contacts are very delicate and missing pixels could result from slight dislocation of any of the elements.
 - f) Avoid pressing on the metal bezel, otherwise the elastomer connector could be deformed and lose contact, resulting in missing pixels.
- 9. Static Electricity
 - a) Operator

Wear the electrostatics shielded clothes because human body may be statically charged if not ware shielded clothes. Never touch any of the conductive parts such as the LSI pads; the copper leads on the PCB and the interface terminals with any parts of the human body.

b) Equipment

There is a possibility that the static electricity is charged to the equipment, which has a function of peeling or friction action (ex: conveyer, soldering iron, working table). Earth the equipment through proper resistance (electrostatic earth: $1x10^8$ ohm).

Only properly grounded soldering irons should be used.

If an electric screwdriver is used, it should be well grounded and shielded from commutator sparks.

The normal static prevention measures should be observed for work clothes and working benches; for the latter conductive (rubber) mat is recommended.

c) Floor

Floor is the important part to drain static electricity, which is generated by operators or equipment.

There is a possibility that charged static electricity is not properly drained in case of insulating floor. Set the electrostatic earth (electrostatic earth: $1x10^8$ ohm).

d) Humidity

Proper humidity helps in reducing the chance of generating electrostatic charges. Humidity should be kept over 50%RH. e) Transportation/storage

The storage materials also need to be anti-static treated because there is a possibility that the human body or storage materials such as containers may be statically charged by friction or peeling.

The modules should be kept in antistatic bags or other containers resistant to static for storage.

f) Soldering

Solder only to the I/O terminals. Use only soldering irons with proper grounding and no leakage.

Soldering temperature : 280 $^{\circ}$ C \pm 10 $^{\circ}$ C

Soldering time: 3 to 4 sec.

Use eutectic solder with resin flux fill.

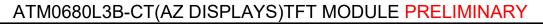
If flux is used, the LCD surface should be covered to avoid flux spatters. Flux residue should be removed afterwards. g) Others The laminator (protective film) is attached on the surface of LCD panel to prevent it from scratches or stains. It should be peeled off slowly using static eliminator.

Static eliminator should also be installed to the workbench to prevent LCD module from static charge. 10. Operation

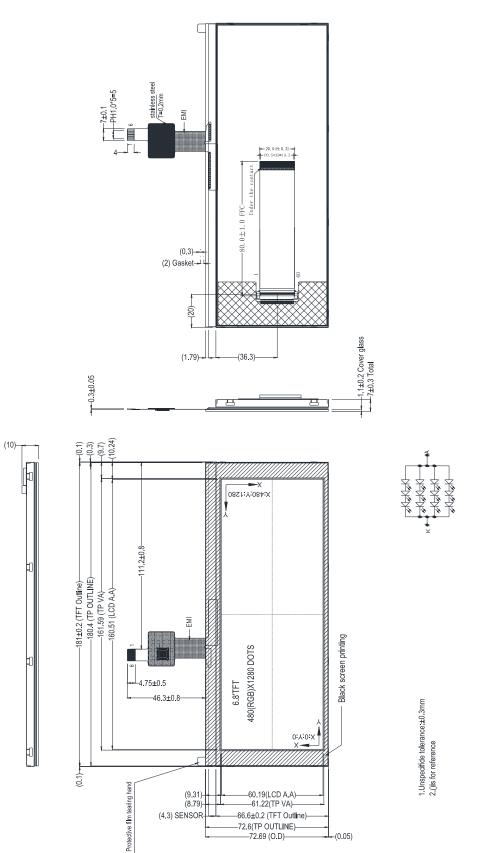
- a) Driving voltage should be kept within specified range; excess voltage shortens display life.
- b) Response time increases with decrease in temperature.
- c) Display may turn black or dark blue at temperatures above its operational range; this is (however not pressing on the viewing area) may cause the segments to appear "fractured".
- d) Mechanical disturbance during operation (such as pressing on the viewing area) may cause the segments to appear "fractured".
- 11. If any fluid leaks out of a damaged glass cell, wash off any human part that comes into contact with soap and water. The toxicity is extremely low but caution should be exercised at all the time.
- 12. Disassembling the LCD module can cause permanent damage and it should be strictly avoided.
- 13. LCD retains the display pattern when it is applied for long time (Image retention). To prevent image retention, do not apply the fixed pattern for a long time. Image retention is not a deterioration of LCD. It will be removed after display pattern is changed.
- 14. Do not use any materials, which emit gas from epoxy resin (hardener for amine) and silicone adhesive agent (dealcohol or deoxym) to prevent discoloration of polarizer due to gas.

15. Avoid the exposure of the module to the direct sunlight or strong ultraviolet light for a long time.

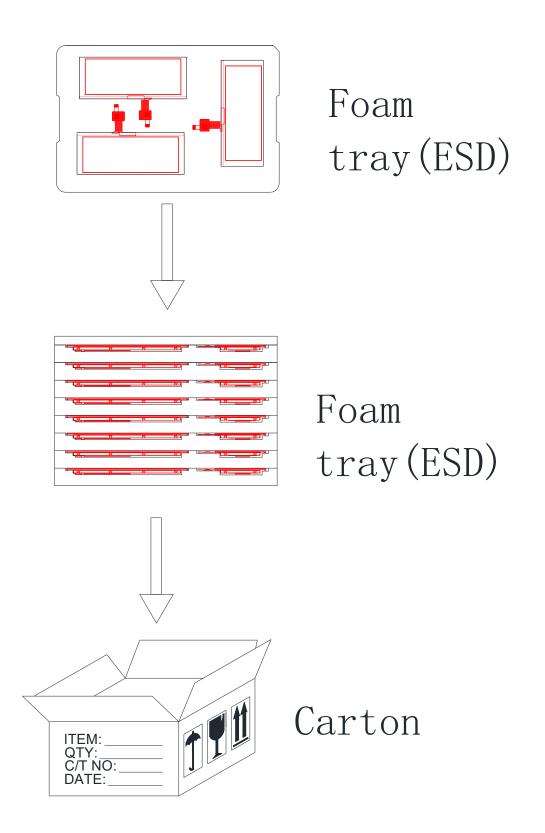
The brightness of LCD module may be affected by the routing of CCFL cables due to leakage to the chassis through coupling effect. The inverter circuit needs to be designed taking the level of leakage current into consideration. Thorough evaluation is needed for LCD module and inverter built into its host equipment to ensure specified brightness.



7. MECHANICAL DRAWING



8. PACKAGE DRAWING



9.INSPECTION SPECIFICATION

1. SCOPE SPECIFICATIONS CONTAIN

- 1.1 DISPLAY QUALITY EVALUATION
- 1.2 MECHANICS SPECIFICATION

2. SAMPLING PLAN

UNLESS THERE IS OTHER AGREEMENT, THE SAMPLING PLAN FOR INCOMING INSPECTION SHALL FOLLOW MIL-STD-105E.

- 2.1 LOT SIZE: QUANTITY PER SHIPMENT AS ONE LOT (DIFFERENT MODEL AS DIFFERENT LOT).
- 2.2 SAMPLING TYPE: NORMAL INSPECTION, SINGLE SAMPLING.
- 2.3 SAMPLING LEVEL: LEVEL II.
- 2.4 AQL: ACCEPTABLE QUALITY LEVEL
 - MAJOR DEFECT: AQL=0.65
 - MINOR DEFECT: AQL=1.0

3. PANEL INSPECTION CONDITION

3.1 ENVIRONMENT:

- ROOM TEMPERATURE: 25±5°C.
- HUMIDITY: 65±5% RH.
- ILLUMINATION: 300 ~ 700 LUX.
- 3.2 INSPECTION DISTANCE:
- 35±5 CM
- 3.3 INSPECTION ANGLE:
 - THE VISION OF INSPECTOR SHOULD BE PERPENDICULAR TO THE SURFACE OF THE MODULE.
- 3.4 INSPECTION TIME:

PERCEPTIBILITY TEST TIME: 20 SECONDS MAX.

4. DISPLAY QUALITY

4.1 FUNCTION RELATED:

THE FUNCTION DEFECTS OF LINE DEFECT, ABNORMAL DISPLAY, AND NO DISPLAY ARE CONSIDERED MAJOR DEFECTS.

4.2 BRIGHT/DARK DOTS:

Defect Type	Specification	Major	Minor
Bright Dots	N≤ 2		•
Dark Dots	N≤ 3		•
Total Bright and Dark Dots	N≤ 4		•

Note: 1:

The definition of dot: The size of a defective dot over 1/2 of whole dot is regarded as one defective dot.

Bright dot: Dots appear bright and unchanged in size in which LCD panel is displaying under black pattern. The bright dot defect must be visible through 2% ND filter

Dark dot: Dots appear dark and unchanged in size in which LCD panel is displaying under pure red, green, blue pattern.

4.3 Pixel Definition:

R	G	В	R	G	В	R	G	В	Dot Defect
R	G	В	R	G	В	R	G	В	Adjacent Dot Defect
R	G	В	R	G	В	R	G	В	Cluster

Note 1:

If pixel or partial sub-pixel defects exceed 50% of the affected pixel or sub-pixel area, it shall be considered as 1 defect.

Note 2:

There should be no distinct non-uniformity visible through 2% ND Filter within 2 sec inspection times.

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4.4Visual Inspection specifications:

Defect	Туре	Specification Size	Count(N)	Major	Minor	
Dot Shape		D ≤0.25 mm	Ignored			
-	Scratch and Bubbles in	$0.25mm < D \leq 0.5mm$	$N \leq 3$			
display area		D > 0.5mm	N=0		•	
New terr D		D≤70mm				
Newton Ri	ng (Only for Touch panel)	D>70mm	N=0	_	•	
		0.1mm <d≤0.2mm< td=""><td>N≤4</td><td></td><td rowspan="2">•</td></d≤0.2mm<>	N≤4		•	
ISP FISH E	yes (Only for Touch panel)	0.2mm <d≤0.3mm< td=""><td>N≤3</td><td></td></d≤0.3mm<>	N≤3			
(Bubble/De	nt)	0.3 <d≤0.4< td=""><td>N≤2</td><td></td><td></td></d≤0.4<>	N≤2			
Line Shap	•	$W \le 0.01 \text{ mm}$	Ignored			
	Scratch、Lint and Bubbles	0.01mm< W \leq 0.05mm and L \leq 3mm	$N \leq 3$		•	
	- L	W > 0.05mm or L > 3 mm	N=0			
Bubble in c	ell (active area)	It should be found by eyes		•		
	Scratch			•		
Bezel	Dirt	No harm		•		
	Wrap	No harm		•		
	Sunken	No harm		•		
	No label			•		
	Inverted label	No		•		
	Broken			•		
	Dirt	Word can be read.		•		
Label	Not clear			•		
	Word out of shape	No		•		
	Mistake	No		•		
	Position	Be attached on right positio		•		
	Not enough	No		•		
Screw	Limp	No			•	

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Connector	Connection status	No bend on pins and damage	•
FPC/FFC	Broken	No	•

Note: Extraneous substance and scratch not affecting the display of image, for instance, extraneous substance under polarizer film but outside the display area, or scratch on metal bezel and backlight module or polarizer film outside the display area, shall not be considered as defective or non-conforming.

10.THE PICTURE TRANSFER INSTRUCTIONS

According to IC and panel collocation, the platform needs to handle the way of sending diagram. Solution:600RGBx1280,Send black screen on the left and the right.

