

PRODUCT	:	LCD MODULE
MODEL NO.	:	YTS200CLAL-01-100N
SUPPLIER	:	ANSHAN YES
DATE	:	JAN.18.2013

SPECIFICATION

Approved	Checked	Department

CUSTOMER: MODEL NO.:

DATE:

Checked	Department
	Checked

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LCD MODULE

REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2012.12.15	New creation	



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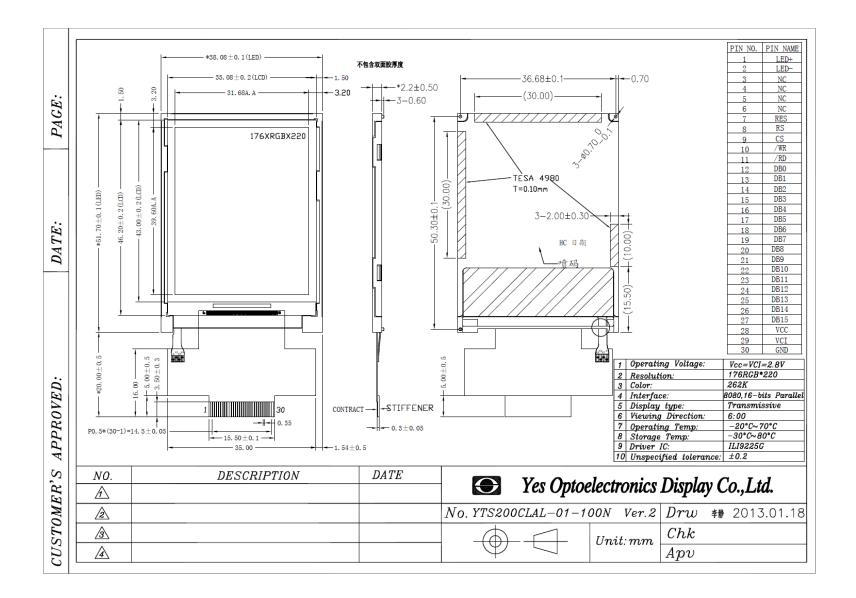


1. GENERAL INFORMATION

Item	Contents	Unit
LCD Type	TFT TRANSMISSIVE	/
Viewing direction	6:00	O' Clock
Module Size (W - H)	38.08*51.70	mm ²
Active area (W-H)	31.68*39.60	mm ²
Number of Dots	176(RGB) *220	/
Driver IC	ILI9225G	/
Colors	262K	/
Backlight type	LED	/
Interface Type	8080,16bits Parallel	/
Operating voltage	VCC=2.8V typ	V
Surface luminance(Typ)	176	cd/m^2



2. Drawing

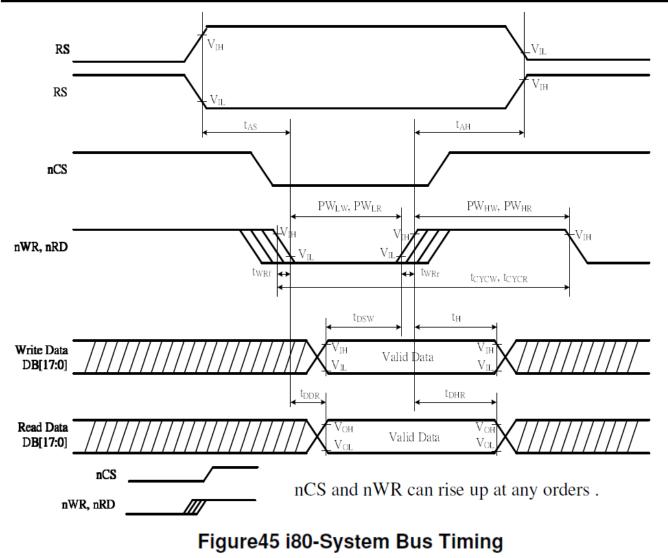




3. TIMING OF POWER SUPPLY

Normal Write Mode (IOVCC = 1.65~3.3V, VCI=2.5~3.3V)

	Item	Symbol	Unit	Min.	Max.	Test Condition
Rue ovolo timo	Write	tcycw	ns	66		
Bus cycle time	Read	t _{CYCR}	ns	300		
Write low-level pu	Ilse width	PWLW	ns	35	500	P 23
Write high-level p	ulse width	PW _{HW}	ns	35	120	12
Read low-level pu	Ilse width	PWLR	ns	150	142	:
Read high-level p	PW _{HR}	ns	150	-		
Write / Read rise / fall time		tw Rr/tw Rf	ns		15	
Cotum times	Write (RS to nCS, E/nWR)			10	-	
Setup time	Read (RS to nCS, RW/nRD)	t _{AS}	ns	5	121	
Address hold time	e	t _{AH}	ns	5	141	
Write data set up	t _{DSW}	ns	10	-		
Write data hold ti	t _H	ns	15	-		
Read data delay t	t _{DDR}	ns		100		
Read data hold til	me	tDHR	ns	5	120	





i80 Read/Write Timing:

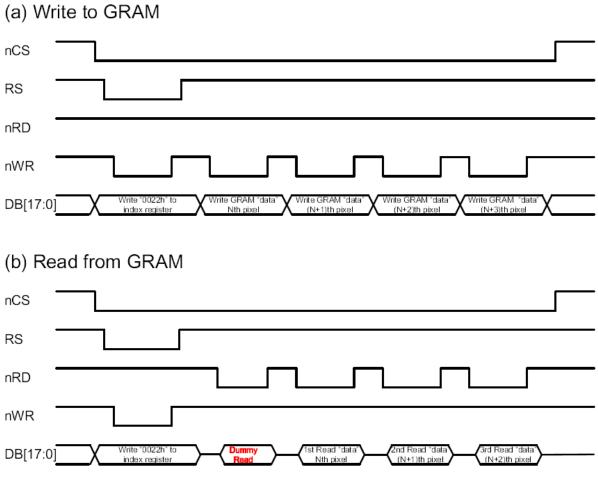


Figure4 i80 16/18-bit System Interface Timing



i80 18-/16-bit System Bus Interface Timing

(a) Write to register
nCS
RS
nRD
nWR
DB[17:0] Vite register "index" Write register "data"
(b) Read from register
nCS
RS
nRD
nWR
DB[17:0] Write register "index" Read register "data"



4. Absolute Maximum Ratings

The absolute maximum rating is listed on following table. When ILI9225G is used out of the absolute maximum ratings, the ILI9225G may be permanently damaged. To use the ILI9225G within the following electrical characteristics limit is strongly recommended for normal operation. If these electrical characteristic conditions are exceeded during normal operation, the ILI9225G will malfunction and cause poor reliability.

ltem	Symbol	Unit	Value	Note
Power supply voltage (1)	IOVCC	V	-0.3 ~ + 4.6	1, 2
Power supply voltage (1)	VCI – GND	V	-0.3 ~ + 4.6	1, 4
Power supply voltage (1)	AVDD – GND	V	-0.3 ~ + 6.0	1, 4
Power supply voltage (1)	GND –VCL	V	-0.3 ~ + 4.6	1
Power supply voltage (1)	AVDD – VCL	V	-0.3 ~ + 9.0	1, 5
Power supply voltage (1)	VGH – GND	V	-0.3 ~ + 18.5	1, 5
Power supply voltage (1)	GND – VGL	V	-0.3 ~ + 18.5	1, 6
Input voltage	Vt	V	-0.3 ~ VCI+ 0.3	1
Operating temperature	Topr	℃	-40 ~ + <mark>8</mark> 5	8, 9
Storage temperature	Tstg	℃	-55 ~ + 110	8, 9
Notos:			-	

Notes:

1. VCI,GND must be maintained

2. (High) VCI \geq GND (Low), (High) IOVCC \geq GND (Low).

3. Make sure (High) VCI \geq GND (Low).

4. Make sure (High) AVDD \geq ASSD (Low).

5. Make sure (High) AVDD \geq VCL (Low).

6. Make sure (High) VGH \ge ASSD (Low).

7. Make sure (High) ASSD \geq VGL (Low).

8. For die and wafer products, specified up to 85 °C.

9. This temperature specifications apply to the TCP package

5. Electrical Specification

Item	Symbol		Unit		
	Cynnoor	Min.	Тур	Max.	01110
TFT gate on voltage	VGH	-	+15	-	٧
TFT gate off voltage	VGL	-	-10	-	V
TFT common	VcomH	+2.5	-	+4.5	v
electrode voltage	VcomL	-2.0	-	0	v

Note: (1) Vcom must be adjusted to optimize display quality :cross-talk, contrast ratio and etc.

(2) VGH is TFT gate operating voltage

(3) VGL is TFT gate operating voltage

(4) Environmental condition: 25±5°C

(5) Reference waveform for panel light on is as below:



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6. OPTICAL SPECIFICATIONS

Itom		Symbol	Conditions	Sp	ecificatior	ns	Unit	Note
Item	nem		Conditions	Min.	Тур.	Max.	Unit	Note
Transmitta	ince	T%		-	5.5	•	%	
Contrast R	latio	CR	Viewing normal angle	-	300	•		All left side data are based on CMI's following condition –
Response		Ton	$\theta_X = \theta_Y = 0^\circ$	-	10		ms	-
(by Quid	ck)	T _{off}		-	20		ms	1.LC : TN 2.Light Source :CMI LED BLU
	Hor.	θχ.		-	45			3.Film:日東 NPF TEG 1465DU
Viewing Angle		θχ.	Center	-	45		deg.	4.Machine : DMS 803
Newing Angle	Ver.	θ _{Y+}	CR>10	-	45	-		
	¥01.	θγ.		-	20	•		
	Red	X _R		(0.587)	(0.617)	(0.647)		
	neu	YR		(0.300)	(0.330)	(0.360)		
	Green	Xg		(0.252)	(0.282)	(0.312)		
CF only Color Chromaticity	CF only Color	Yg	Viewing normal angle	(0.521)	(0.551)	(0.561)		1.Under C light Simulation
(CIE 1931)	Blue	X _B	$\theta_X = \theta_Y = 0^\circ$	(0.131)	(0.161)	(0.191)		2.NTSC 55%
	Dine	Y _B		(0.081)	(0.111)	(0.141)		
	White	Xw		(0.276)	(0.306)	(0.336)		
	write	Yw		(0.292)	(0.322)	(0.352)		

*Note (1) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L63 / L0

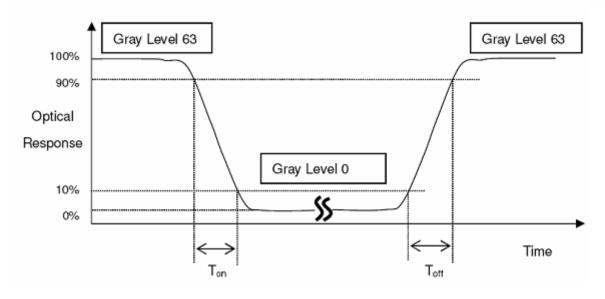
L63: Luminance of gray level 63

L0: Luminance of gray level 0

CR = CR(5)

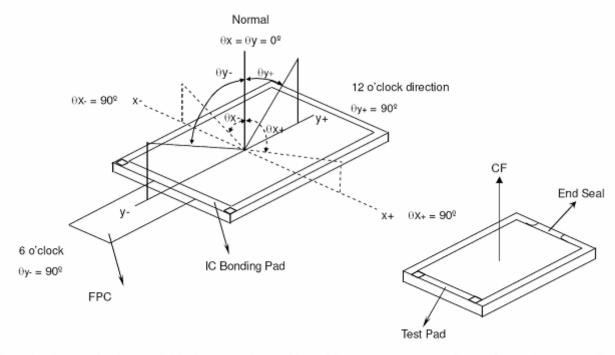
CR (X) is corresponding to the Contrast Ratio of the point X at Figure in Note (5).

*Note (2) Definition of Response Time (TR, TF):





*Note(3) Definition of Viewing Angle



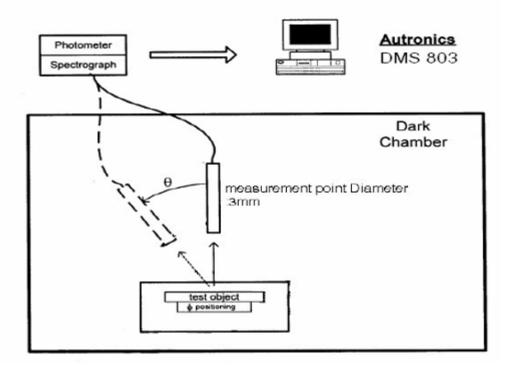
*** The above "Viewing Angle" is the measuring position with Largest Contrast Ratio; not for good image quality. View Direction for good image quality is 6 O'clock. Module maker can increase the "Viewing Angle" by applying Wide View Film.

*Note (4) Measurement Set-Up:

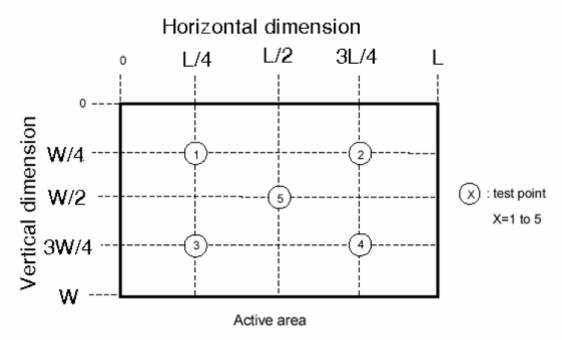
The LCD module should be stabilized at a given temperature for 20 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 20 minutes in a windless room.



LCD MODULE



*Note (5)





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7. Backlight Characteristics

Ta=25℃

	Item	Symbol	min.	typ.	max.	Unit	Condition
	Luminance	Lv	3200	3700	4700	cd/m²	
Main	Uniformity	Avg	80			%	
screen	Colour	Х	0.250		0.300		lf=45 mA
	Coordinate	Y	0.250		0.300		
	Luminance	Lv				cd/m²	Measure tolerance:
Sub	Uniformity	Avg				%	Luminance: $\pm 5\%$
screen	Colour	Х					Colour coordinate: ± 0.008
	Coordinate						Voltage: $\pm 0.1V$
Forward Voltage		Vf	2.9	3.2	3.5	V	
Reverse Current		lr			25	μΑ	Vr= 5 V

8. INTERFACE DESCRIPTION

Pin No.	Symbol	Description
1	LED+	LED backlight
2	LED-	LED backlight
3-6	NC	No connection
7	RES	Reset signal
8	RS	Command/Parameter or display data selection pin in parallel bus system interface.
9	CS	Chip select input pin
10	/WR	Write enable pin I80 parallel bus system interface.
11	/RD	Read enable pin I80 parallel bus system interface.
12-27	DB0-DB15	Data bus
28	VCC	Power supply
29	VCI	Analog power supply.VCI=2.5~3.3V
30	GND	Ground



9. APPLICATION CIRCUIT

Please consult our technical department for detail information.

10. INITIAL CODE

Please consult our technical department for detail information

11. RELIABILITY TEST

No.	Test Item	Test Condition	Inspection after test		
1	High Temperature Storage	80 ± 2℃/200 hours			
2	Low Temperature Storage	-30 ± 2℃/200 hours	Inspection after		
3	High Temperature Operating	70 ± 2℃/120 hours	2~4hours storage at room temperature,the sample shall		
4	Low Temperature Operating	-20 ± 2℃/120 hours			
5	Temperature Cycle	-25℃ ~ 25℃~ 70℃ × 10cycles (30min.) (5min.) (30min.)	be free from defects: 1.Air bubble in the LCD;		
6	Damp Proof Test	50 °C ±5 °C ×90%RH/120 hours	2.Sealleak;		
7	Vibration Test	Frequency: 10Hz~55Hz~10Hz Amplitude: 1.5mm, X, Y, Z direction for total 3hours (Packing condition)	 3.Non-display; 4.missing segments; 5.Glass crack; 6.Current Idd is twice higher than initial 		
8	Drooping test	Drop to the ground from 1m height, one time, every side of carton. (Packing condition)	value.		
9	ESD test	Voltage:±8KV R: 330Ω C: 150pF Air discharge, 10time			

Remark:

1. The test samples should be applied to only one test item.

2.Sample size for each test item is 5~10pcs.

3.For Damp Proof Test, Pure water(Resistance>10M Ω) should be used.

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

5.EL evaluation should be excepted from reliability test with humidity and temperature: Some defects such as black spot/blemish can happen by natural chemical reaction with humidity and Fluorescence EL has.

6.Failure Judgment Criterion: Basic Specification, Electrical Characteristic, Mechanical Characteristic, Optical Characteristic.

7.Please use automatic switch menu(or roll menu) testing mode when test operating mode.



12.INSPECTION CRITERION

OUTGOING QUALITY STANDARD	PAGE 1 OF 4
TITLE:FUNCTIONAL TEST & INSPECTION CRITERIA	

This specification is made to be used as the standard acceptance/rejection criteria for Color mobile phone LCM.

1 Sample plan

Sampling plan according to GB/T2828.1-2003/ISO 2859-1: 1999 and ANSI/ASQC Z1.4-1993, normal level 2 and based on:

Major defect: AQL 0.65

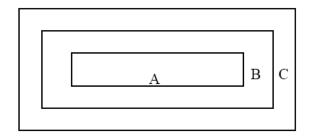
Minor defect: AQL 1.5

2. Inspection condition

Viewing distance for cosmetic inspection is about 30cm with bare eyes, and under an environment of 20~40W light intensity, all directions for inspecting the sample should be within

45° against perpendicular line.

3. Definition of inspection zone in LCD.



Zone A: character/Digit area

Zone B: viewing area except Zone A (ZoneA+ZoneB=minimum Viewing area)

Zone C: Outside viewing area (invisible area after assembly in customer's product)

Fig.1 Inspection zones in an LCD.

Note: As a general rule, visual defects in Zone C are permissible, when it is no trouble for quality and assembly of customer's product.



OUTGOING QUALITY STANDARD					PAGE 2 OF 4	
TLE:FU	UNCTIONAL '	TEST & INSPECTIO	ON CRITERI	[A		
-	ction standaı jor Defect	rds				
Item No	Items to be inspected	Inspection Standard			Classification of defects	
4.1.1	All functional defects	 No display Display abnormally Missing vertical, horizontal segment Short circuit Back-light no lighting, flickering and abnormal lighting. 				
4.1.2	Missing	Missing componen	t			Major
4.1.3	Outline dimension	Overall outline dimension beyond the drawing is not allowed.				
4.2 Cos	metic Defect					· · · · · · · · · · · · · · · · · · ·
Item No	Items to be inspected	Inspection Standard			Classification of defects	
	Clear Spots Black and white Spot defect Pinhole,	as $\Phi = \frac{(x+y)/2}{1}$		Acceptable	Qty	
		Size(mm)	A	В	С	Minor
	Foreign Particle,	Φ≤0.10		Ignore		
	Dirt under	0.10< Φ ≤0.15	5	2	Ignore	
	polarizer	0.15< Φ≤ 0.20	0	1		
4.2.1		Φ>0.20		0		
	Dim Spots	2.				
	Circle	2. Zone	Acceptable Qty		-	
	shaped and dim edged defects	Size(mm)	А	В	С	
		Φ≤0.2	Ig	nore		Minor
		0.20≤ Φ ≤0.40		3	Ignore	
		0.40< Φ≤ 0.60		2	Ignore	
		0.60< Φ≤ 0.80		1		
		0.80< Φ		0		



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OUTGOING QUALITY STANDARD PAGE 3 OF 4 TITLE: FUNCTIONAL TEST & INSPECTION CRITERIA 4.2. Cosmetic Defect Item Items to be Classification Inspection Standard inspected of defects No Size(mm) Acceptable Qty Zone Line defect W(Width) L(Length) Α В С Black line. White line, Ignore W≤0.02 Ignore Foreign 4.2.2 Minor material L≤3.0 0.02≤W≤0.03 2 under Ignore polarizer, 1 L≤2.0 0.03≤W≤0.05 Define as spot $0.05 \le W$ defect If the Polarizer scratch can be after seen mobile phone cover assembling or in the operating condition, judge by the line defect of 4.2.2. If the Polarizer scratch can be seen only in non-operating condition or some special angle, judge by the following. Size(mm) Acceptable Qty Polarizer Zone 4.2.3 Minor scratch L(Length) W(Width) А в С Ignore W≤0.03 Ignore 5.0<L≤10.0 0.03<W≤0.05 2 Ignore 1 L≤5.0 0.05<W≤0.08 0 0.08<W Air bubbles between glass & polarizer 2. Zone Acceptable Qty Size(mm) С А В Polarize 4.2.4 Minor **Φ**≤0.2 Ignore Air bubble 2 0.20<**Φ**≤0.30 Ignore 1 0.30<**Φ**≤0.50 0 0.50<**Φ**



	OUTGOI	NG QUALITY STANDARD PAGE 4	OF 4		
TITLE:FU					
4.3. Cosmetic Defect					
Item No	Items to be inspected	Inspection Standard	Classification of defects		
4.3.5	Glass defect	(i) Chips on corner $\overrightarrow{x} \qquad \overrightarrow{y} \qquad \overrightarrow{z}$ $\overrightarrow{z} \qquad \overrightarrow{y} \qquad \overrightarrow{z}$ $\overrightarrow{s} \qquad 2.0 \qquad \leq S \qquad Disregard$ Notes: S=contact pad length Chips on the corner of terminal shall not be allowed to extend into the ITO pad or expose perimeter seal. (ii)Usual surface cracks	Minor		
		XYZ ≤ 3.0 <inner border="" line="" of="" seal<="" td="" the="">Disregard</inner>	Minor		
		(iii) Crack Cracks tend to break are not allowed.	Major		
4.3.6	Parts alignment	 Not allow IC and FPC/heat-seal lead width is more than 50% beyond lead pattern. Not allow chip or solder component is off center more than 50% of the pad outline. 	Minor		
4.3.7	SMT	According to the <acceptability assemblies="" electronic="" of=""> IPC-A-610C class 2 standard. Component missing or function defect are Major defect, the others are Minor defect.</acceptability>			

LCD MODULE YTS200CLAL-01-100N

13.PRECAUTIONS FOR USING LCD MODULES

Handing Precautions

(1) The display panel is made of glass and polarizer. As glass is fragile. It tends to become or chipped during handling especially on the edges. Please avoid dropping or jarring. Do not subject it to a mechanical shock by dropping it or impact.

(2) If the display panel is damaged and the liquid crystal substance leaks out, be sure not to get any in your mouth. If the substance contacts your skin or clothes, wash it off using soap and water.

(3) Do not apply excessive force to the display surface or the adjoining areas since this may cause the color tone to vary. Do not touch the display with bare hands. This will stain the display area and degraded insulation between terminals (some cosmetics are determined to the polarizer).

(4) The polarizer covering the display surface of the LCD module is soft and easily scratched. Handle this polarizer carefully. Do not touch, push or rub the exposed polarizers with anything harder than an HB pencil lead (glass, tweezers, etc.). Do not put or attach anything on the display area to avoid leaving marks on. Condensation on the surface and contact with terminals due to cold will damage, stain or dirty

the polarizer. After products are tested at low temperature they must be warmed up in a container before coming is contacting with room temperature air.

(5) If the display surface becomes contaminated, breathe on the surface and gently wipe it with a soft dry cloth. If it is heavily contaminated, moisten cloth with one of the following solvents

- Isopropyl alcohol

- Ethyl alcohol

Do not scrub hard to avoid damaging the display surface.

(6) Solvents other than those above-mentioned may damage the polarizer. Especially, do not use the following.

- Water

- Ketone

- Aromatic solvents

Wipe off saliva or water drops immediately, contact with water over a long period of time may cause deformation or color fading. Avoid contacting oil and fats.

(7) Exercise care to minimize corrosion of the electrode. Corrosion of the electrodes is accelerated by water droplets, moisture condensation or a current flow in a high-humidity environment.

(8) Install the LCD Module by using the mounting holes. When mounting the LCD module make sure it is free of twisting, warping and distortion. In particular, do not forcibly pull or bend the I/O cable

or the backlight cable.

(9) Do not attempt to disassemble or process the LCD module.

(10) NC terminal should be open. Do not connect anything.

(11) If the logic circuit power is off, do not apply the input signals.

(12) Electro-Static Discharge Control, Since this module uses a CMOS



LSI, the same careful attention should be paid to electrostatic discharge as for an ordinary CMOS IC. To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.

- Before remove LCM from its packing case or incorporating it into a set, be sure the module and your body have the same electric potential.Be sure to ground the body when handling the LCD modules.

Tools required for assembling, such as soldering irons, must be grounded. make certain the AC power source for the soldering iron does not properly leak. When using an electric screwdriver to attach LCM, the screwdriver should potentiality ground minimize possible to as much be of as anv transmission of electromagnetic waves produced sparks coming from the commutator of the motor.

- To reduce the amount of static electricity generated, do not conduct assembling and other work under dry conditions. To reduce the generation of static electricity be careful that the air in the work is not

too dried. A relative humidity of 50%-60% is recommended. As far as possible make the electric potential

of your work clothes and that of the work bench the ground potential

The LCD module is coated with a film to protect the display surface. Exercise care when peeling off this protective film since static electricity may be generated.

(13) Since LCM has been assembled and adjusted with a high degree of precision, avoid applying

excessive shocks to the module or making any alterations or modifications to it.

- Do not alter, modify or change the shape of the tab on the metal frame.

- Do not make extra holes on the printed circuit board, modify its shape or change the positions of components to be attached.

- Do not damage or modify the pattern writing on the printed circuit board.

- Absolutely do not modify the zebra rubber strip (conductive rubber) or heat seal connector.

- Except for soldering the interface, do not make any alterations or modifications with a soldering iron.

- Do not drop, bend or twist LCM.

Storage Precautions

When storing the LCD modules, the following precaution is necessary.

(1) Store them in a sealed polyethylene bag. If properly sealed, there is no need for the dessicant.

(2) Store them in a dark place. Do not expose to sunlight or fluorescent light, keep the temperature between 0° C and 35° C.

(3) The polarizer surface should not come in contact with any other objects. (We advise you to store

them in the container in which they were shipped).

Others

Liquid crystals solidify under low temperature (below the storage temperature range) leading to defective orientation or the generation of air bubbles



(black or white). Air bubbles may also be generated if the module is subject to a low temperature.

If the LCD modules have been operating for a long time showing the same display patterns, the display patterns may remain on the screen as ghost images and a slight contrast irregularity may also appear. A normal operating status can be regained by suspending use for some time. It should be noted that this phenomenon does not adversely affect performance reliability.

To minimize the performance degradation of the LCD modules resulting from destruction caused by static electricity etc., exercise care to avoid holding the following sections when handling the modules.

- Exposed area of the printed circuit board.

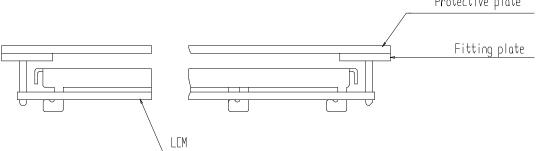
-Terminal electrode sections.

USING LCD MODULES

Installing LCD Modules

The hole in the printed circuit board is used to fix LCM as shown in the picture below. Attend to the following items when installing the LCM.

(1) Cover the surface with a transparent protective plate to protect the polarizer and LC cell.

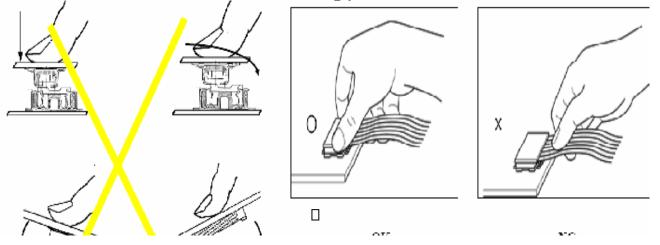


(2) When assembling the LCM into other equipment, the spacer to the bit between the LCM and the

fitting plate should have enough height to avoid causing stress to the module surface, refer to the individual specifications for measurements. The measurement tolerance should be ± 0.1 mm.

Precaution for assemble the module with BTB connector:

Please note the position of the male and female connector position, don't assemble or assemble like the method which the following picture shows





Precaution for soldering to the LCM

	Hand soldering	Machine drag	Machine press soldering
N	290°C	330°C ~350°C.	300°C
No	~350°C.	Speed : 4-8	~330°C.
ROHS	Time : 3-5S.	mm/s.	Time : 3-6S.
DOUG	340°C	350°C ~370°C.	330°C
ROHS	~370°C.	Time : 4-8	~360°C.
product	Time : 3-5S.	mm/s.	Time : 3-6S.

(1)If soldering flux is used, be sure to remove any remaining flux after finishing to soldering operation. (This does not apply in the case of a non-halogen type of flux.) It is recommended that you protect the LCD surface with a cover during soldering to prevent any damage due to flux spatters.

(2) When soldering the electroluminescent panel and PC board, the panel and board should not be detached than three times. more This maximum number is determined temperature and time conditions mentioned above, though by the some variance depending on the temperature of the soldering there may be iron.

(3) When remove the electroluminescent panel from the PC board, be sure the solder has completely melted, the soldered pad on the PC board could be damaged.

Precautions for Operation

(1) Viewing angle varies with the change of liquid crystal driving voltage (VLCD).

Adjust VLCD to

show the best contrast.

(2) 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.

(3) Response time will be extremely delayed at lower temperature than the operating temperature range and on the other hand at higher temperature LCD's show 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 operating temperature.

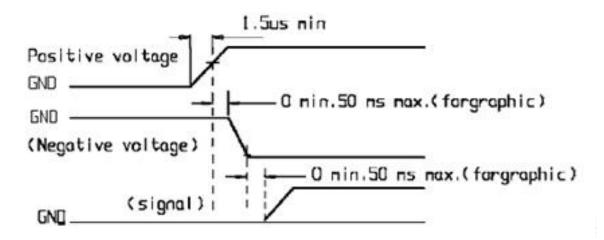
(4) If the display area is pushed hard during operation, the display will become abnormal. However, it will return to normal if it is turned off and then back on.

(5) 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.

(6) Input each signal after the positive/negative voltage becomes stable.

(7) Please keep the temperature within specified range for use and storage. Polarization degradation, bubble generation or polarizer peel-off may occur with high temperature and high humidity.





Safety

(1) It is recommended to crush damaged or unnecessary LCDs into pieces and wash them off with solvents such as acetone and ethanol, which should later be burned.

(2) If any liquid leaks out of a damaged glass cell and comes in contact with the hands, wash off thoroughly with soap and water.

14.PRIOR CONSULT MATTER

1.①For YES standard products, we keep the right to change material,

process ... for improving the product property without notice on our customer.

②For OEM products, if any change needed which may affect the product property, we will

consult with our customer in advance.

2. If you have special requirement about reliability condition, please let us know before you start

the test on our samples.

15. FACTORY

FACTORY NAME: ANSHAN YES OPTOELECTRONICS DISPLAY CO., LTD FACTORY ADDRESS: 215# QIANSHAN ROAD, ANSHAN LIAONING P.R.CHINA FACTORY PHONE: 86-412-5211859 FAX: 86-412-5211729