

**YES OPTOELECTRONICS CO.,LTD**

SPECIFICATIONS FOR LIQUID CRYSTAL DISPLAY MODULE	YMS162-36AIFBDCL
STANDARD SPECIFICATIONS FOR PRODUCT QUALITY	YMS162-36AIFBDCL
SPECIFICATIONS FOR PACKING	YMS162-36AIFBDCL

**SPECIFICATIONS FOR  
LIQUID CRYSTAL DISPLAY MODULE**

**Product NO:** YMS162-36AIFBDCL

**Customer:** \_\_\_\_\_

**DATE:** MAR.15.2018

Prepared by	Checked by	Approved by
李文慧	姜晓娜	牛红丽



CUSTOMER'S APPROVAL

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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## REVISION HISTORY

Rev	Date	Item	Page	Remark
1.0	MAR.15.2018	New Creation	ALL	

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## 1. General Specifications

Item	Contents	Unit
Drive Method	1/16Duty ,1/4Bias	/
Operating voltage	5.0	V
Viewing direction	6:00	O' Clock
Operating Temperature	-20~70	°C
Storage Temperature	-30~85	°C
Display type	STN mode, Transmissive, Negative type display	/
Module Size	53.0*21.8*8.5	mm
View Area	36.0*10.0	mm
Dot Size	0.33*0.35	mm
Dot pitch	0.38*0.40	mm
Dot Gap	0.05	mm

## 2. Absolute Maximum Ratings

### 2.1 Electrical absolute maximum ratings

#### ST7066U

Characteristics	Symbol	Value
Power Supply Voltage	$V_{CC}$	-0.3 to +7.0
LCD Driver Voltage	$V_{LCD}$	$V_{CC}-10.0$ to $V_{CC}+0.3$
Input Voltage	$V_{IN}$	-0.3 to $V_{CC}+0.3$

#### ST7065C

Symbol	Parameters	Min.	Max.	Unit
VDD	Supply Voltage	-0.3	7	V

2.2 Environmental absolute maximum ratings

Item	Operating Temperature (Topr)		Storage Temperature (Tstg) (Note 1)		Remark
	Min	Max	Min	Max	
Ambient temperature	-20℃	+70℃	-30℃	+85℃	Dry
Humidity(Note 1)	90% max.RH for $T_a \leq 40^\circ\text{C}$ < 50%RH for $40^\circ\text{C} < T_a \leq \text{Maximum}$ operating temperature				No condensation
Vibration(IEC 68-2-6) cells must be mounted on a suitable connect or	Frequency:10-55Hz Amplitude:0.75mm Duration:20 cycles in each direction				3 directions
Shock(IEC68-2-27)Half- sine pulse shape	Pulse duration:11ms Peak acceleration:981 m/s <sup>2</sup> =100g Number of shocks:3 shocks in 3 mutually perpendicular axes				3 directions

Note 1:Product cannot sustain at extreme storage conditions for long time.

### 3.Electrical Characteristics(DC Character)

ST7066U

Symbol	Characteristics	Test Condition	Min.	Typ.	Max.	Unit
V <sub>CC</sub>	Operating Voltage	-	4.5	-	5.5	V
V <sub>LCD</sub>	LCD Voltage	V <sub>CC</sub> -V5	3.0	-	10.0	V
I <sub>CC</sub>	Power Supply Current	f <sub>OSC</sub> = 270KHz V <sub>CC</sub> =5.0V	-	0.2	0.5	mA
V <sub>IH1</sub>	Input High Voltage (Except OSC1)	-	0.7V <sub>CC</sub>	-	V <sub>CC</sub>	V
V <sub>IL1</sub>	Input Low Voltage (Except OSC1)	-	-0.3	-	0.6	V
V <sub>IH2</sub>	Input High Voltage (OSC1)	-	V <sub>CC</sub> -1	-	V <sub>CC</sub>	V
V <sub>IL2</sub>	Input Low Voltage (OSC1)	-	-	-	1.0	V
V <sub>OH1</sub>	Output High Voltage (DB0 - DB7)	I <sub>OH</sub> = -0.1mA	3.9	-	V <sub>CC</sub>	V
V <sub>OL1</sub>	Output Low Voltage (DB0 - DB7)	I <sub>OL</sub> = 0.1mA	-	-	0.4	V
V <sub>OH2</sub>	Output High Voltage (Except DB0 - DB7)	I <sub>OH</sub> = -0.04mA	0.9V <sub>CC</sub>	-	V <sub>CC</sub>	V
V <sub>OL2</sub>	Output Low Voltage (Except DB0 - DB7)	I <sub>OL</sub> = 0.04mA	-	-	0.1V <sub>CC</sub>	V
R <sub>COM</sub>	Common Resistance	V <sub>LCD</sub> = 4V, I <sub>d</sub> = 0.05mA	-	2	20	KΩ
R <sub>SEG</sub>	Segment Resistance	V <sub>LCD</sub> = 4V, I <sub>d</sub> = 0.05mA	-	2	30	KΩ
I <sub>LEAK</sub>	Input Leakage Current	V <sub>IN</sub> = 0V to V <sub>CC</sub>	-1	-	1	μA
I <sub>PUP</sub>	Pull Up MOS Current	V <sub>CC</sub> = 5V	-50	-110	-180	μA

ST7065C

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit	Applicable pin
VDD	Operating Voltage	-	2.7	-	5.5	V	-
VLCD	Driver Supply Voltage	VDD-VEE	3	-	11	V	-
VIH	Input High Voltage	-	0.7 VDD	-	VDD	V	CL1,CL2,M,SHL1,S HL2 DL1,DL2,DR1,DR2
VIL	Input Low Voltage	-	0	-	0.3 VDD	V	
ILKG	Input Leakage Current	VIN = 0 ~ VDD	-5	-	5	uA	
VOH	Output High Voltage	IOH = -0.4mA	VDD -0.4	-	-	V	DL1,DL2,DR1,DR2 V1~V6, S[1]~S[40]
VOL	Output Low Voltage	IOL = +0.4mA	-	-	0.4	V	
IDD	Operating Current	FCL2 = 400KHZ	-	100	300	uA	VDD,VEE
IV	Leakage Current	VIN = VDD ~ VEE	-10	-	10	uA	V1 ~ V6

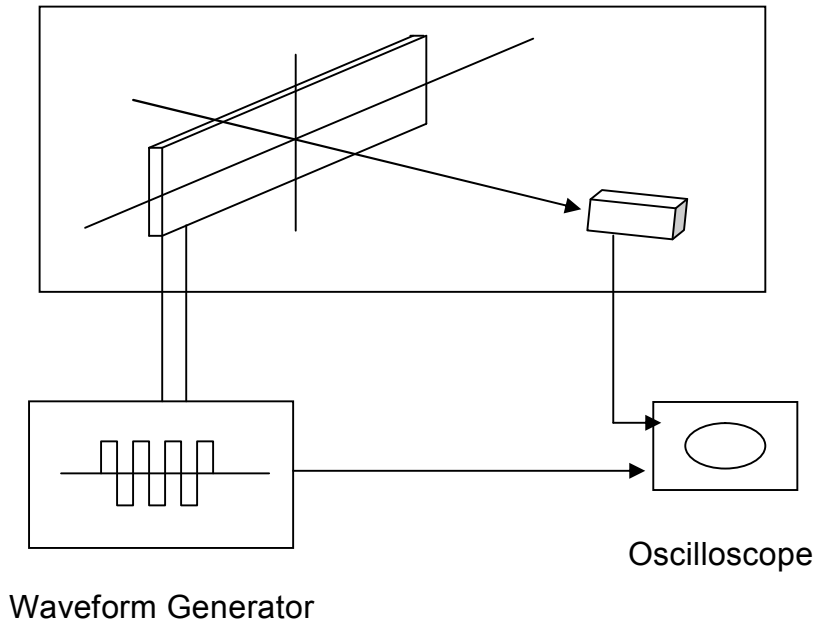
## 4. Electro-Optic Characteristics

4.1 Measuring Condition: TEMP=(23±3)°C, HUM= (55±10)%RH

N O	Item	Symbol	Min	Type	Max	Unit	
1	Supply Voltage(Logic)	VDD	4.8	5.0	5.2	V	
2	Operating Voltage	VDD-VEE	4.1	4.4	4.7	V	
3	Operating Frequency	F	-	64	-	Hz	
4	Response Time	Rising Time	Tr	-	120	180	mS
		Decay Time	Td	-	180	270	
5	Contrast Ratio (max)	CR	5	8	-		
6	Viewing Angle (CR≥2)	12H $\phi =90^\circ$	$\theta 1$	35	40	-	deg
		6H $\phi =270^\circ$	$\theta 2$	45	50	-	
		3H $\phi =0^\circ$	$\theta 3$	45	50	-	
		9H $\phi =180^\circ$	$\theta 4$	45	50	-	

### 4.2 Threshold Voltage and Response Time Measuring

(1) Equipment

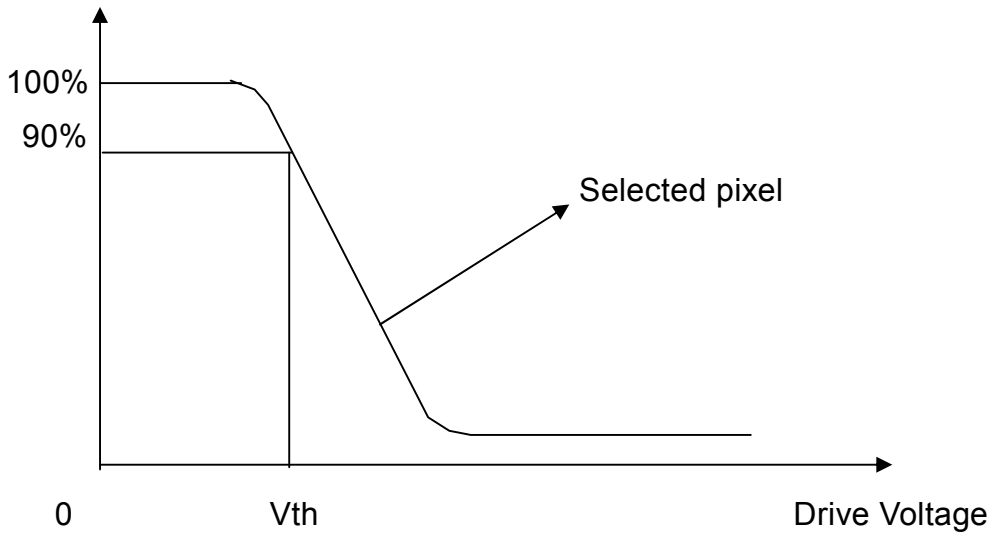




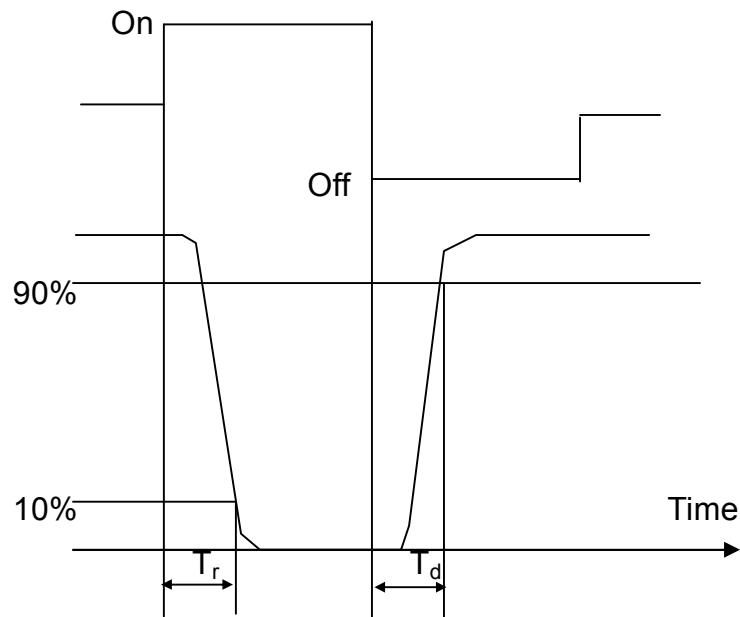
(2) Definition

A. Threshold Voltage (Vth)

Brightness



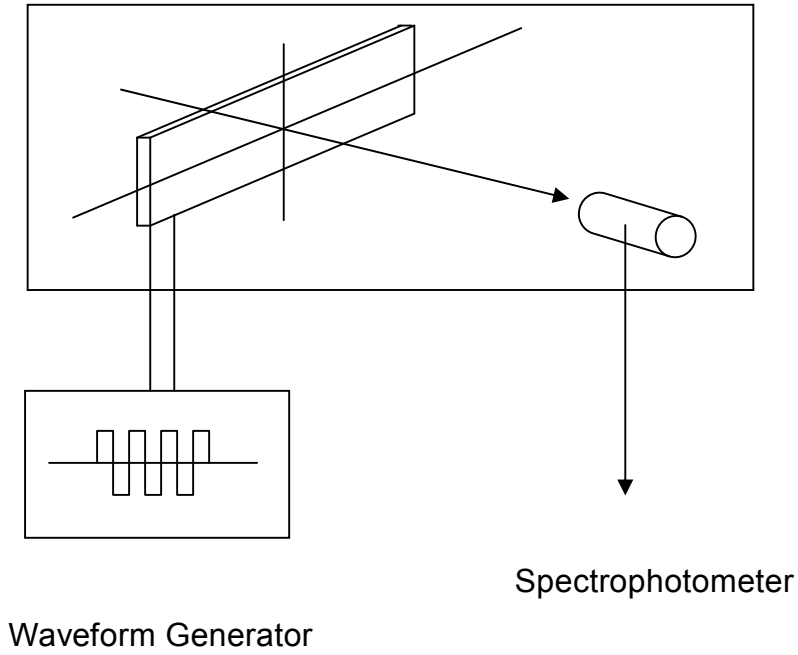
B. Response Time



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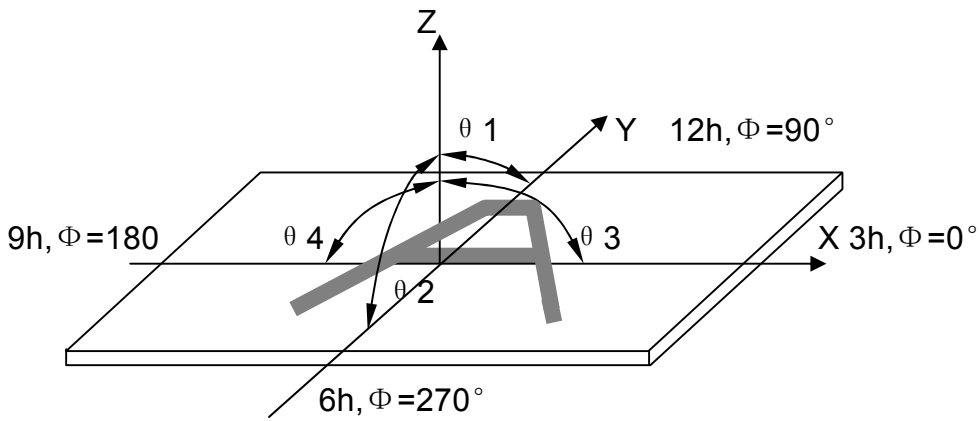
### 4.3. Contrast Measuring

#### (1) Equipment



#### (2) Definition:

##### A. Viewing Angle:



##### B. Contrast Ratio (Positive)

$$CR = \frac{\text{Brightness of non-selected pixel}}{\text{Brightness of selected pixel}}$$

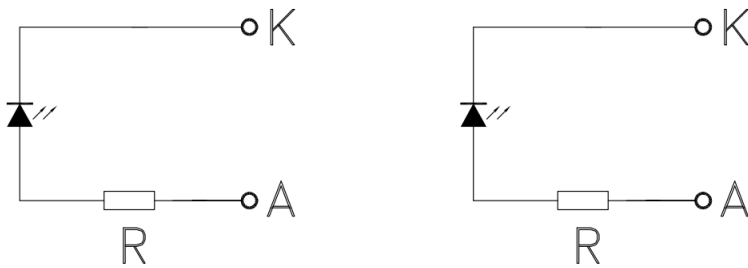
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## 5. Backlight Electric Characteristic

Color:White

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Forward current	IF	3.8	4.0	4.3	V	If=15*2mA Ta=25°C
<b>Colour Coordinate</b> (Tolerances is ±0.01)	x	0.275		0.325	--	
	y	0.275		0.325	--	
<b>Uniformity</b>	Avg	70			%	
<b>Average Luminance</b>	La	2000	3000	4000	cd/m <sup>2</sup>	AVE of 9 Points

### CIRCUIT DIAGRAM



### WARNING:

A BACKLIGHT IS A KIND OF CURRENT DEVICE,IT MUST CONNECT WITH A RESISTOR FOR LIMITING CURRENT ,OR IT WILL BE DAMAGED.

## 6.Pin Connections

PIN NO.	SYMBOL	Function
1	Vss	Ground
2	Vdd	Logic Supply Voltage
3	Vee	LCD Driver Voltage Input
4	RS	Data/Instruction Register Select
5	R/W	Read/Write Select
6	E	Enable Signal
7-14	DB0-DB7	Data Bus Line
15	LED+	LED backlight anode
16	LED-	LED backlight cathode

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LCM

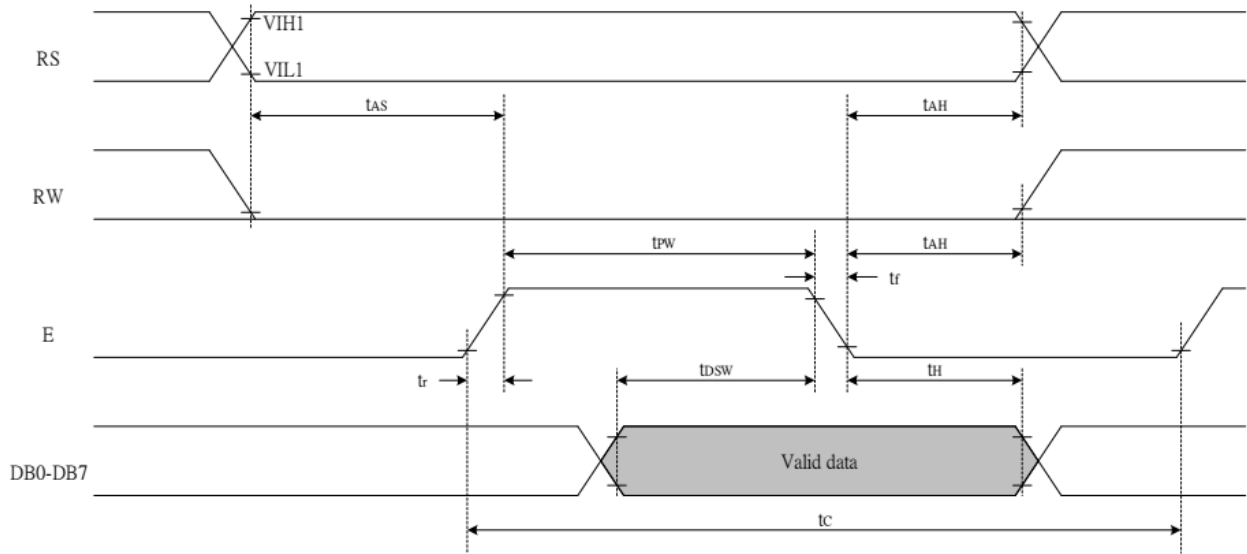
**YES**

YMS162-36AIFBDCL

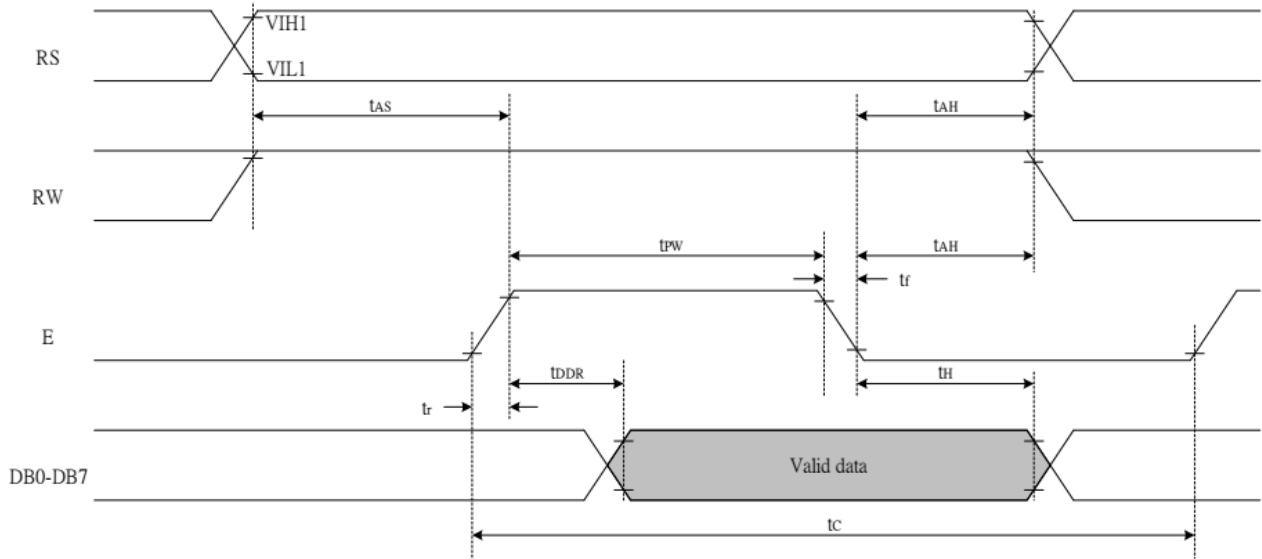
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## 7. Timing Characteristics

### ST7066U

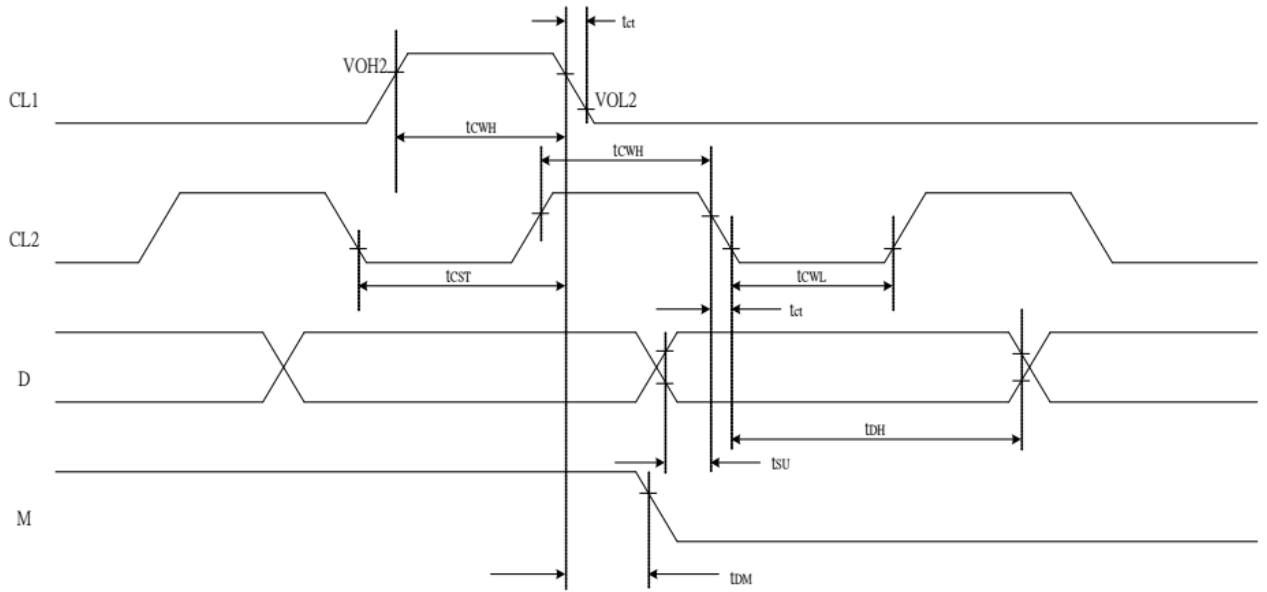


Writing data from MPU to ST7066U



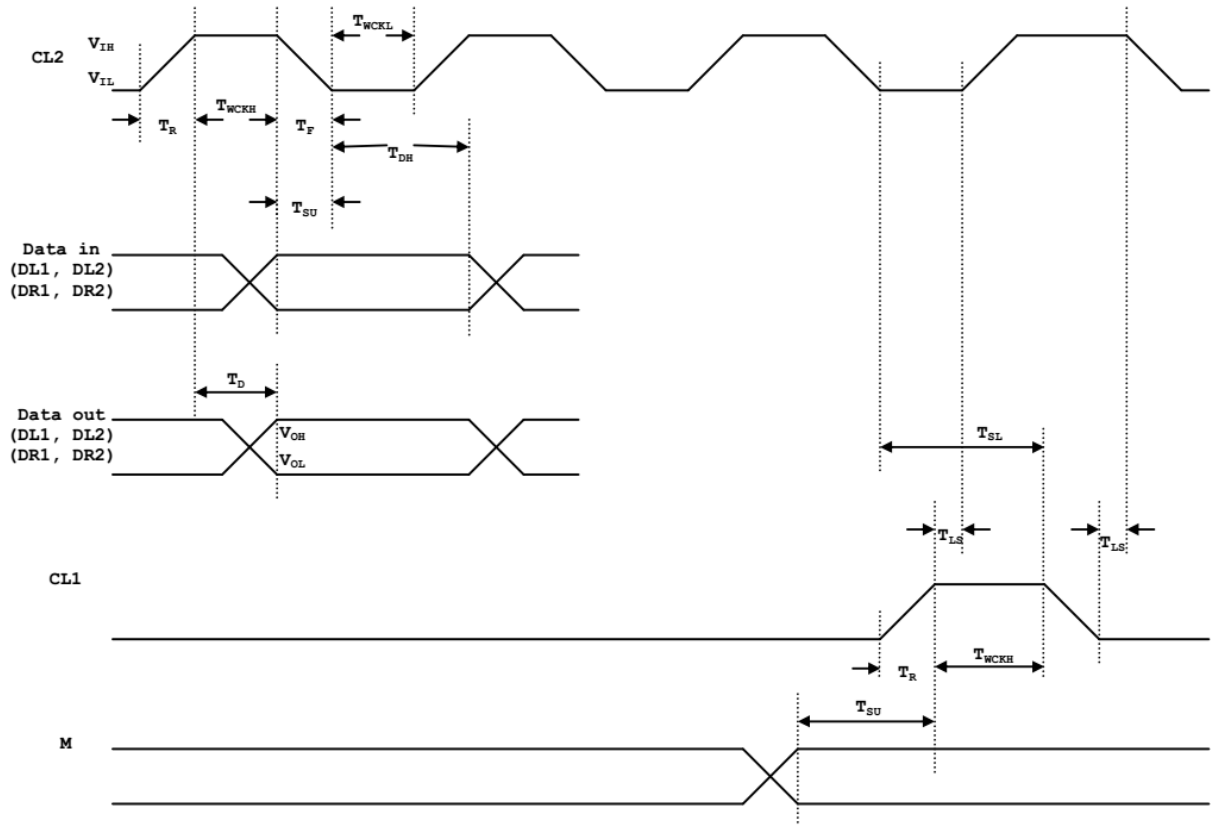
Writing data from ST7066U to MPU

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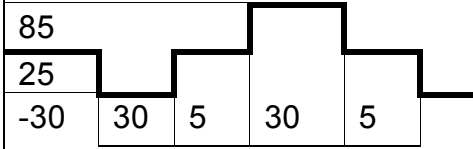
Interface Timing with External Driver

ST7065C

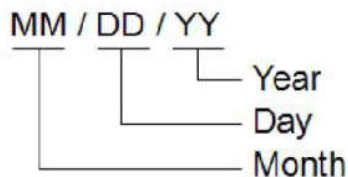


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### 8. Reliability Test

No	Items	Test Condition	Judgement
1	High Temp Storage	Temp:85℃ Time:96h Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
2	Low Temp Storage	Temp:-30±3℃ Time:96h Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
3	HIGH TEMP OPERATING	Temp:70℃ Vop:5.0V Time:96h Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
4	LOW TEMP OPERATING	Temp: -20±3℃ Vop:5.0V Time:96h Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
5	High Temp High Hum Storage	Temp:40±2℃ Hum:90%Rh Time:96h Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
6	Thermal Shock	Temp:(℃)  5 Cycles Restore:24h	Display function:No defect Display quality: No defect Current consumption: No defect
7	Dropping test	Throw a box of well packed products down from 1m height.all of the 3 angles and 3 covers.Each angle and each cover do that everytime.	Display function:No defect Display quality: No defect Current consumption: No defect
8	LOW Frequency Vibration	Frequency: 10~60hz, Constant amplitude: 1.5mm Directions: x-, y-, z- axis Duration: 2 hour each axis Linear sweeping: 10~60~10hz/5min	Display function:No defect Display quality: No defect Current consumption: No defect

**9.Lot indication**



**10.Warranty**

**10.1.Incoming inspection.**

Please inspect the LCD within one month after your receipt.

**10.2.Production warranty.**

YES warrants its LCD's for a period of 12 months from the ship date.YES shall,by mutual agreement,replace or rework defective LCD's that are shown to be YES's responsibility.

**11.CAUTION**

11.1 YES shall have the right, which Customer hereby acknowledges, to immediately scrap or destroy tooling for YES modules for which no Purchase Orders have been received from the Customer in a two-year period, as the same time the specifications become invalid.

11.2 In YES inspection process, if there is slight dents on terminals of FPC、FFC, which doesn't affect function, it will not be judged as defect.

11.3 In LCM production, it will occur slightly color difference, we can only guarantee the same color in the same batch.

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## 12.Precautions For Use

### 12.1. Safety

- (1) Do not swallow any liquid crystal, even if there is no proof that liquid crystal is poisonous.
- (2) If the LCD panel breaks, be careful not to get liquid crystal to touch your skin.
- (3) If skin is exposed to liquid crystal, wash the area thoroughly with alcohol or soap.

### 12.2.Storage Conditions

- (1) Store the panel or module in a dark place where the temperature is  $25\pm 5^{\circ}\text{C}$  and the humidity is  $50\pm 20\%\text{RH}$ .
- (2) Store in anti-static electricity container.
- (3) Store in clean environment, free from dust, active gas, and solvent.
- (4) Do not place the module near organics solvents or corrosive gases.
- (5) Do not crush, shake, or jolt the module.
- (6) Do not exposed to direct sun light of fluorescent lamps.

### 12.3.Installing LCD Module

Attend to the following items when installing the LCM.

- (1) Cover the surface with a transparent protective plate or touch panel 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.

### 12.4.Precautions For Operation

- (1) Viewing angle varies with the change of liquid crystal driving voltage ( $V_o$ ). Adjust  $V_o$  to show the best contrast.
- (2) Driving the LCD in the voltage above the limit will shorten its lifetime.
- (3) Response time is greatly delayed at temperature below the operating temperature range. However, this does not mean the LCD will be out of the order. It will recover when it returns to the specified temperature range.
- (4) When turning the power on, input each signal after the positive/negative voltage becomes stable.

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(5) Do not apply water or any liquid on product which composed of T/P.

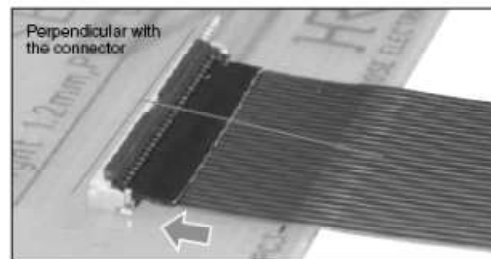
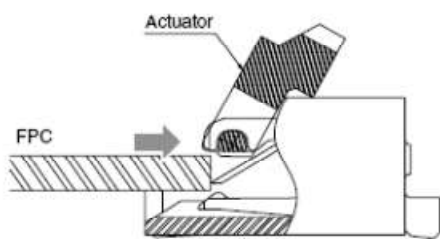
### 12.5. Handling Precautions

- (1) Avoid static electricity which can damage the CMOS LSI; please wear the wrist strap when handling.
- (2) The polarizing plate of the display is very fragile. so, please handle it very carefully.
- (3) Do not give external shock.
- (4) Do not apply excessive force on the surface; it may cause display abnormal .
- (5) Do not wipe the polarizing plate with a dry cloth, as it may easily scratch the surface of plate.
- (6) Do not use ketonics solvent & Aromatic solvent, use with a soft cloth soaked with a cleaning naphtha solvent.
- (7) Do not operate it above the absolute maximum rating.
- (8) Do not remove the panel or frame from the module.
- (9) Do not apply water or any liquid on product which composed of T/P.

### 12.6. FPC Precautions For Us

◆ FPC Insertion①

The FPC should be aligned parallel with the board surface and perpendicular with the connector (as shown), then completely inserted.



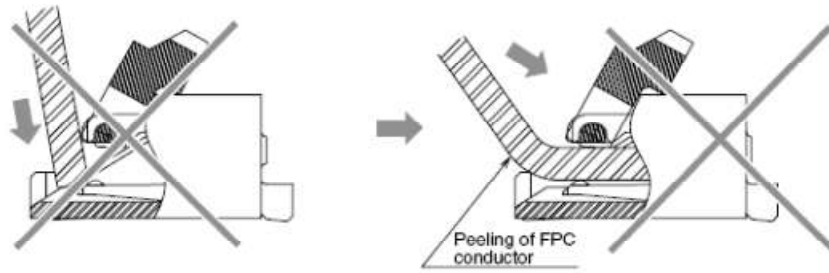
To assure correct electrical and mechanical connection do not insert FPC at angle. It must be fully inserted.

Make sure that the FPC is NOT MOVED during the closing of the actuator.

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◆FPC Insertion②

When inserting the FPC, do not forcefully rub against the bottom surface of the connector insertion entrance. Doing so will result in the contacts and FPC making strong contact and may cause deformation of the contacts, peeling of the FPC conductor, and other problems.



Fully insert the FPC in the connector parallel to mounting surface, with the exposed conductive traces facing down.

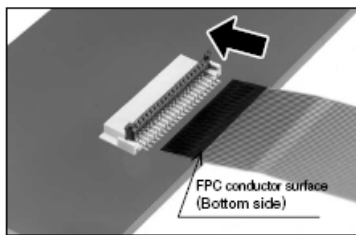


photo 1

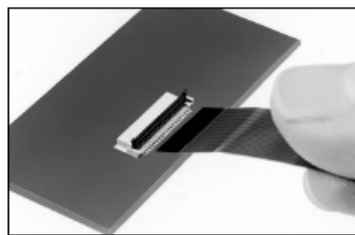


photo 2

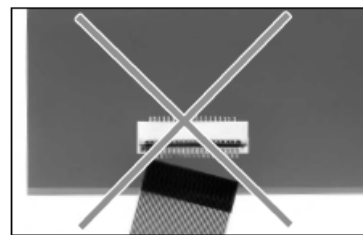


photo 3

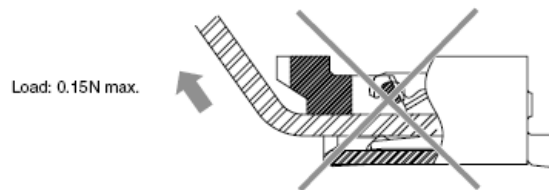
◆Verification of the fully closed actuator.

The actuator should be fully closed (as illustrated) and the FPC held firmly in the connector. Do not press against the actuator when is fully closed. Max force applied to the fully closed actuator should not exceed 1 N.

**Routing the FPC (FPC fully inserted/ actuator closed)**

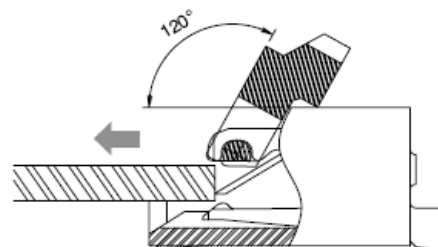
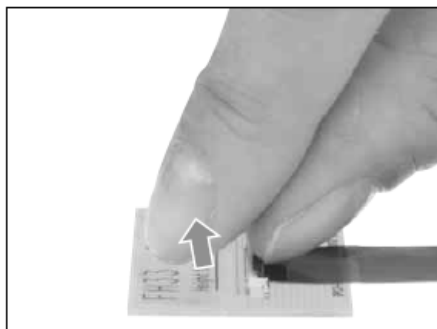
◆FPC Load

Do not apply force in excess of 0.15N max. in the upward direction (as illustrated). Do not bend the FPC too close to the actuator.



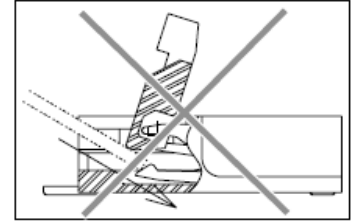
**Removing the FPC**

Rotate the actuator to the open position (maximum open angle of 120°). Carefully withdraw the FPC.



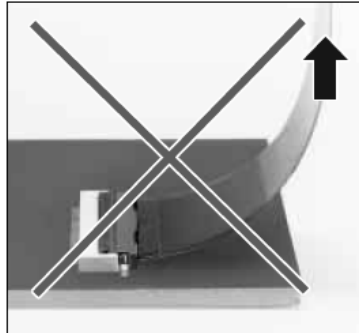
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When inserting the FPC, do not forcefully rub against the bottom surface of the connector insertion entrance. Doing so will result in the contacts and FPC making strong contact and may cause deformation of the contacts, peeling of the FPC conductor, and other problems.



Application of excessive force to the inserted FPC/FFC may cause damage to connector and may affect the reliability of electrical connection.

If specific application requires continuous or repeated pull or bend of the inserted FPC/FFC, assure that the forces are NOT transmitted directly to the connector.



Except above FPC insert notice, pls also pay attention to anti-static when using the module, such as use in the temp. and humidity as recommended in our spec., workers must wear anti-static ring when operating

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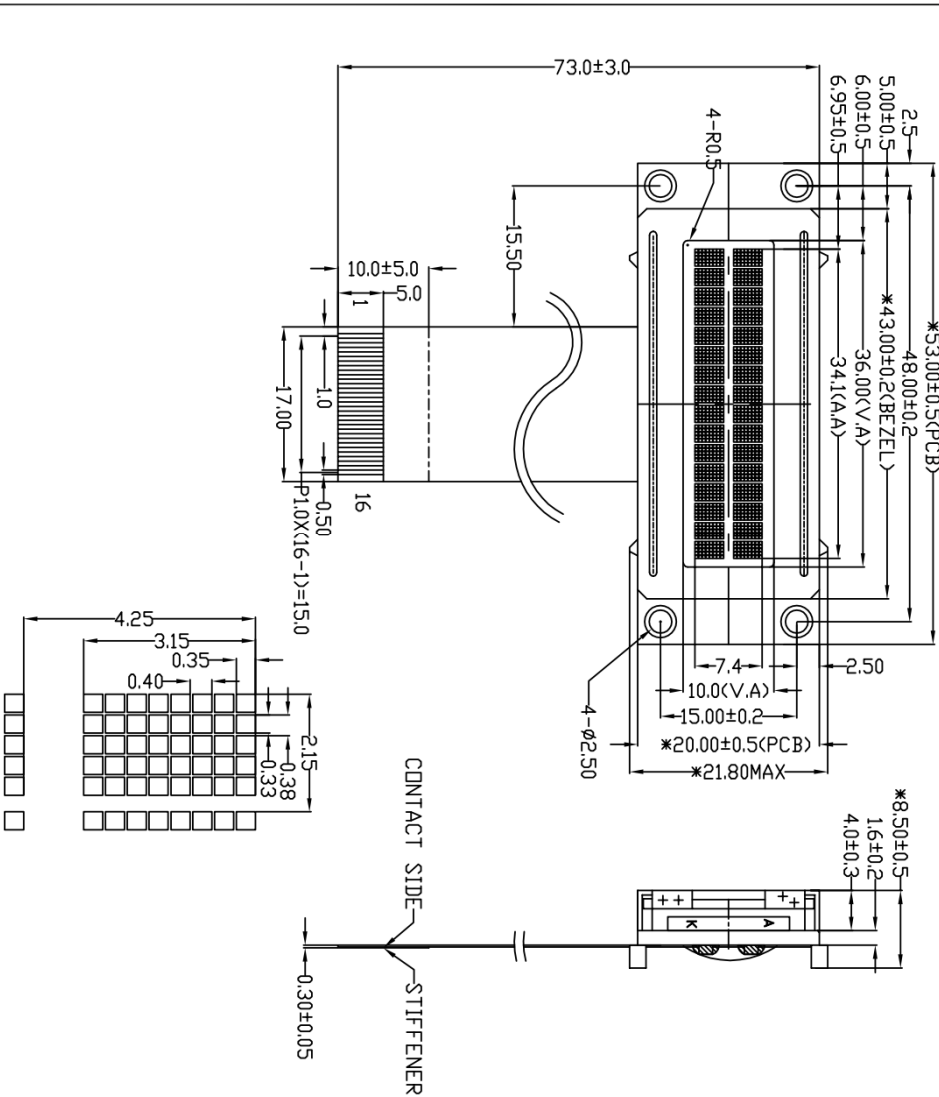
13.Outline Drawing

CUSTOMER'S APPROVED:

DATE:

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NO.	DESCRIPTION	NAME	DATE
①			
②			
③			
④	Initial version modify the IC based on YMS162-21AICBDCL	Jiang Xiaona	2018-03-14



1	Operating Voltage:	5.0V
2	Drive method:	1/16Duty,1/4Bus
3	Viewing Direction:	6:00
4	Operating Temp:	-20°C~70°C
5	Storage Temp:	-30°C~80°C
6	Display Type:	STN,Negative,Transmissive
7	Unspecified tolerance:	F:0.2
8	LCD controller/driver:	ST7066U-04-BB,ST7065
9	Backlight:	LED/W
10	Customer No.:	
11	Dimensions with mark "*" are important	
12	RoHS compliant	

**Yes Optoelectronics Co., Ltd.**

No. YMS162-36AIFBDCL Ver. 1

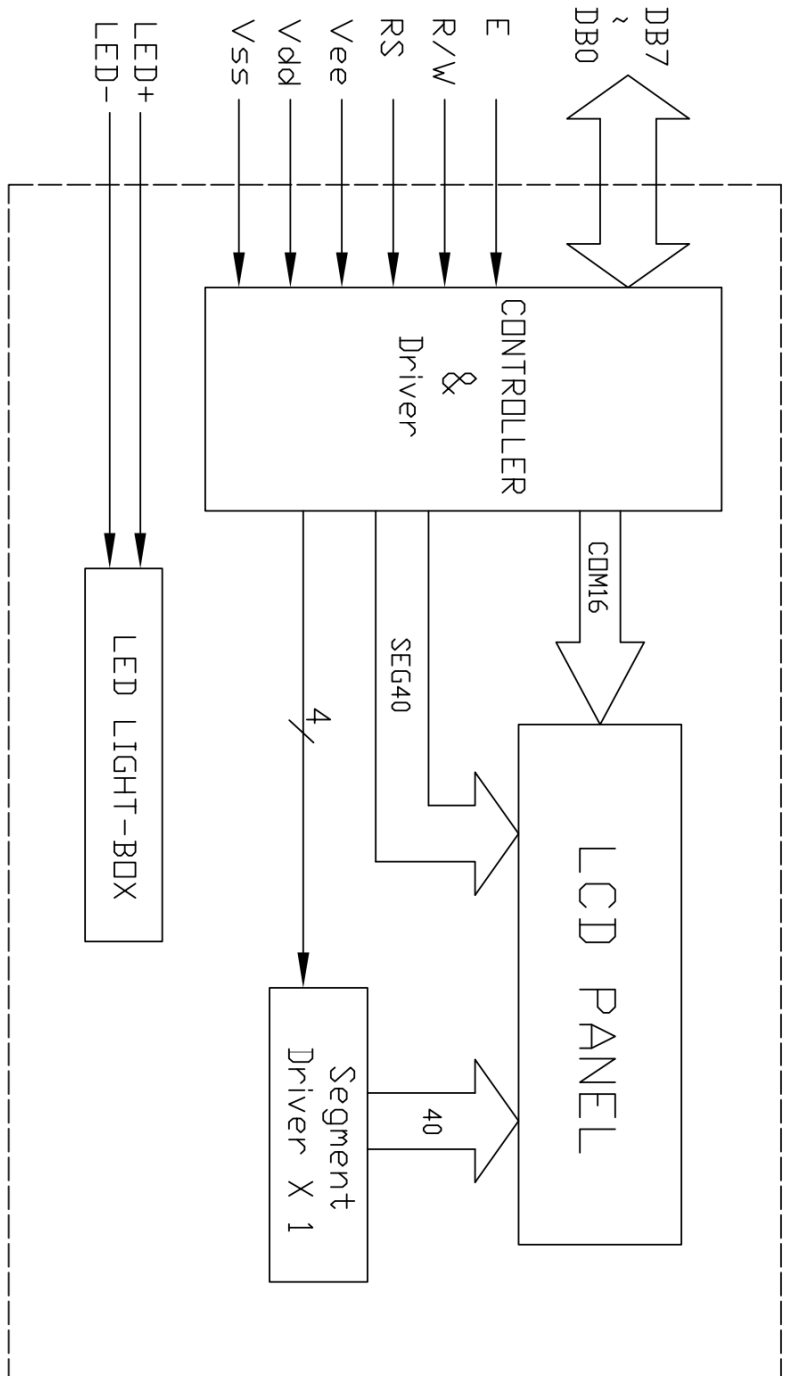
Unit: mm

Drw: *Appv* Chk: *Appv*


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PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SYMBOL	VSS	Vdd	Vee	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	LED+	LED-


**Yes Optoelectronics Co., Ltd.**

No. YMS162-36AIFBDCL Ver.1

Drrw

---

Unit:mm

---

Chk  
 Apv

## Standard Specifications for Product Quality

Product NO: YMS162-36AIFBDCL

Customer: GMS

DATE: MAR.15.2018

Prepared by	Checked by	Approved by
马丽	王法则	孙兴平

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## REVISION HISTORY

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1.0	MAR.15.2018	New Creation	ALL	

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# 1. Standard Specifications for Product Quality

## 1.1 Inspection conditions

Luminance : 15-60LUX minimum(Electrical inspection standard)  
 : 300-700LUX(Appearance inspection standard)

Inspection distance : 300mm(from the sample)

Temperature : 25±5°C Direction:right above.

1.2 When defects specified in this inspection standards are inspected, operating voltage (Vop) shall be set at the level where optimized contrast is available. Display quality is applied up to effective viewing area.

1.3 This inspection standard about the image quality shall be applied to any defect within the effective viewing area and shall not be applicable to outside of the area.

1.4 Should any defects which are not specified in this standard happen, additional standard shall be determined by mutual agreement between customer and YES opto.

## 2. Quality specification

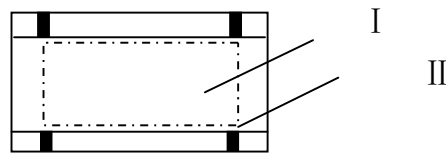
It shall be based on GB2828-87, Apply level II, Normal inspection by single sampling.

	IETM	CHECK LEVEL	AQL
MAJOR (MA)	1.LIQUID CRYSTAL LEAKAGE 2.WRONG POLARIZER 3.OUTSIDE DIMENSION 4.SEGMENT MISSING 5.SEGMENT SHORT	II	0.25
MINOR (MI)	1.BLACK SPOTS OR WHITE SPOTS. 2.FOREIGN SUBSTANCE, 3.WHITE SPOTS, 4.PINHOLE,SEGMENT 5.DEFORMATION SCRATCHS(GLASS & POLARIZER), 6.SEGMENT DEFECT, 7.AIR BUBBLES BETWEEN GLASS & POLARIZER, 8.COLOR VARIATION,GLASS CHIPS, 9.OTHER VISUAL DEFECTS.	II	1.0

## 3. Definition of area

3.1 I area: viewing area

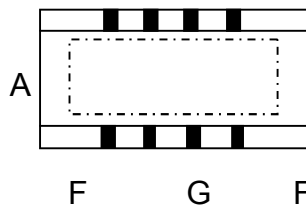
II area: outside viewing area



3.2 A area: The glass area outside sealant. F G F

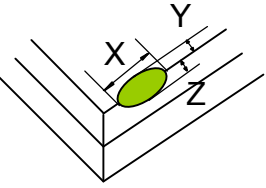
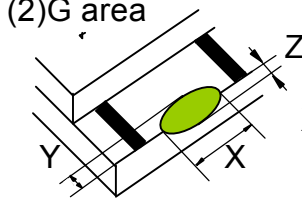
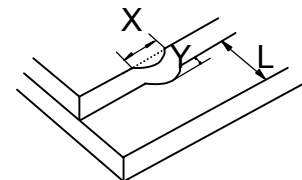
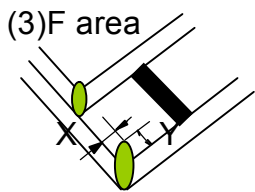
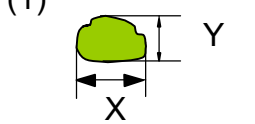
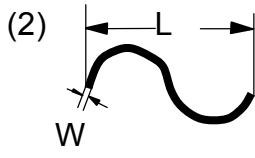
G area: Electrode pad area.

F area: Without electrode pad area.



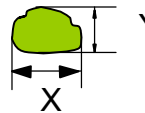
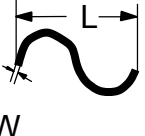
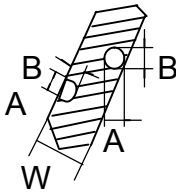
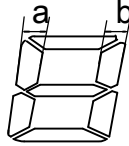
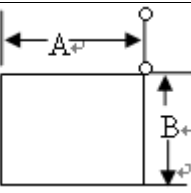
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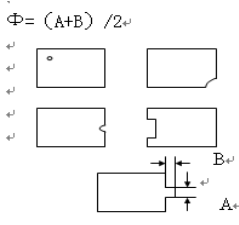
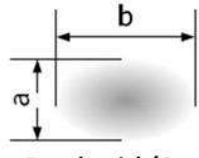
4.Standard of appearance test: (unit: mm)

No	Items	Criterion	Checking manner
1	Substrate crack X: defect Length Y: defect Width Z: defect Depth T: glass Thickness N: defect QTY L:Connector Width	<p>(1) A area</p>  <p><math>X \leq 3.0</math> Y: Don't allowed hurt sealing <math>Z \geq T/2</math> <math>N \leq 3</math>  <math>X \leq 5.0</math> Y: Don't allowed hurt sealing <math>Z \leq T/2</math> <math>N \leq 3</math>  <math>X \leq 1.0</math> <math>Y \leq 0.5</math> <math>Z \leq T/3</math> No check</p> <p>(2)G area</p>  <p><math>X \leq 3.0</math> <math>Y \leq 0.5</math> <math>Z \leq T/2</math> <math>N \leq 2</math></p>  <p><math>X \leq \text{total length}</math>  <math>Y \leq 1/4L</math> <math>N \leq 1</math>                      Over the drawing tolerance is not allowed</p> <p>(3)F area</p>  <p><math>X \leq 2.0</math> <math>Y \leq 3</math> <math>Z \leq T</math> <math>N \leq 3</math>                      Don't allowed hurt sealing</p>	checking with eyes
2	Black spot white spot $D=(X+Y)/2$ Line Note: Scratch, bubble and dent which can be observed in power off state.	<p>(1)</p>  <p><math>0.2 &lt; D \leq 0.25</math> <math>N \leq 1</math>  <math>0.1 &lt; D \leq 0.2</math> <math>N \leq 3</math>  <math>D \leq 0.1</math> No check</p> <p>(2)</p>  <p><math>L \leq 2.0</math> <math>W \leq 0.03</math> <math>N \leq 2</math>  <math>L \leq 1.0</math> <math>W \leq 0.05</math> <math>N \leq 1</math></p>	Checking on the table with light and polarizer and checking with eyes directly.

No	Items	Criterion	Checking manner
3	Polarizer Bubble	$D \leq 0.15$ No check $0.15 < D \leq 0.4$ $N \leq 2$	Checking on the table with light and polarizer, and checking with eyes directly
4	Rainbow Color	Allow tiny rainbow Allow 5% color contrast or accord limitative sample	Checking on the table with light and polarizer, And checking with eyes directly
5	END Seal	1. Dimension accord design require 2. Inject depth (d): $1/5D \leq d \leq D$ (D: seal design depth)	Checking with eyes
6	Polarizer or pad appearance	No dirty	Checking with eyes

### 5 Standard of display test

No	Items	Criterion	Checking manner
1	Black spot white spot $D = (X+Y)/2$  Line Note: Scratch, bubble and dent which can be observed at all image display mode at Von voltage and does not change with voltage.	(1)  $Y$ $X$ $0.2 < D \leq 0.25$ $N \leq 1$ $0.1 < D \leq 0.2$ $N \leq 3$ $D \leq 0.1$ No check  (2)  $L$ $W$ $L \leq 2.0$ $W \leq 0.03$ $N \leq 2$ $L \leq 1.0$ $W \leq 0.05$ $N \leq 1$	Checking at the display state
2	Pin hole $D = (A+B)/2$ W: segment width	 $B$ $B$ $A$ $A$ $W$ $W \leq 0.4$ $D \leq 0.20$ And $D \leq 1/2W$ $N \leq 1$ $W > 0.4$ $D \leq 0.25$ And $D \leq 1/3W$ $N \leq 2$ $D \leq 0.05$ No check	Checking at the display state
3	Different width of segment	 $a$ $b$ $ a-b  < 0.25$ or $ a-b  \leq 1/4W$ No check	Checking at the display state
4	Different width	 $A$ $B$ A: distortion $\leq 10\%$ B: distortion $\leq 10\%$ Superfluous Electrode lines display is not allowed	

5	Pinhole	$\Phi = (A+B) / 2$ 	$0.15 < \Phi \leq 0.2 \quad N \leq 1$ $0.05 < \Phi \leq 0.15 \quad N \leq 3$ $\Phi \leq 0.05 \quad \text{Any number}$ Note: Distance between two spots $\geq 10\text{mm}$ , $\Phi < 1/3$ pixels
6	Black spot white spot  $D = (a+b)/2$ Note: The phenomenon change with voltage	$D \leq 0.5$ No check $0.5 < D \leq 0.7 \quad N \leq 3$ $0.7 < D$ Not allowed	Checking at the display state
7	LED	1.The LED must be White 2.The LED must be uniform.	Checking With Eyes

## Specifications for Packing

Product NO: YMS162-36AIFBDCL

Customer: GMS

DATE: MAR.15.2018

Prepared by	Checked by	Approved by
冯蓉蓉	孙腾贺	张泽宇

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# Packing

CUSTOMER'S APPROVED:

DATE: 2018.03.16

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PRODUCT PART NO.:YMS162-36AIFBDCL

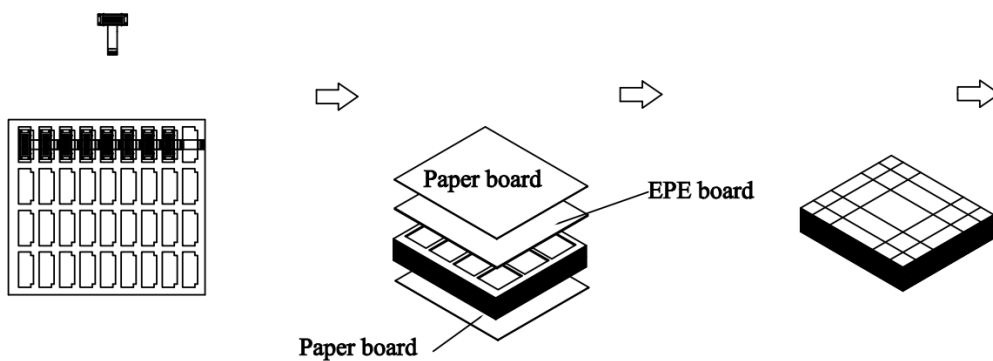
PACKING TYPE: BY EPE TRAY(T161-33A)

## PACKLING ORDER:

1) Putting 32 pcs Modules on each EPE tray.

2) Putting 5 pcs EPE trays together with EPE paper on the top of EPE tray.

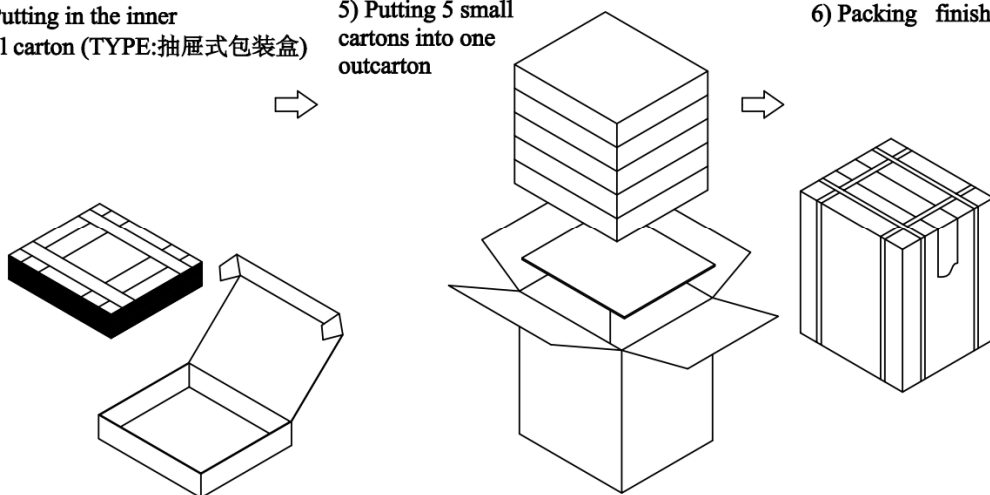
3) Assembling the boards and the tray together with adhesive tape



4) Putting in the inner small carton (TYPE:抽屜式包装盒)

5) Putting 5 small cartons into one outcarton

6) Packing finished



Note: 32 pcs in a tray, 5 trays in a inner carton,5 inner cartons in a out carton, so 32x5x5=800pcs/Outcarton

Dimension (Small carton ): 385\*325\*87mm

Dimension (Out carton ): 394\*344\*470mm

NO. YMS162-36AIFBDCL

Drw:

Chk:

Apv:

YES OPTOELECTRONICS CO., LTD

DATE MAR.15.2018

Version1.0

TECHNICAL SPECIFICATION

LCM

YES

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