

Product Specification

SPECIFICATION FOR APPROVAL

() Preliminary Specification
 (●) Final Specification

Title	7.0"W (480 X RGB X 234) TFT- LCD
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BUYER	
MODEL	

SUPPLIER	LG.Philips LCD Co., Ltd.
MODEL	LT070W02
SUFFIX	* TMJ2

***Without Tcon**

SIGNATURE	DATE
/	
/	
/	

APPROVED BY	DATE
C.S. KYEONG /G.Manager	
REVIEWED BY	
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PREPARED BY	
O.J. KWON /Engineer	

Product Engineering Dept.
LG. Philips LCD Co., Ltd

Product Specification**CONTENTS**

NO.	ITEM	PAGE
0	Record of Revisions	3
1	Summary	4
2	Features	4
3	General Specification	4
4	Interface (Input Terminal)	5
5	Absolute Maximum Ratings	6
6	Electrical Characteristics	7
7	Electro-optical Characteristics	12
8	Mechanical Characteristics	15
9	Reliability Test	17
10	Packing	18
11	Precautions	19

RECORD OF REVISIONS

[illegible]

Product Specification

1. Summary

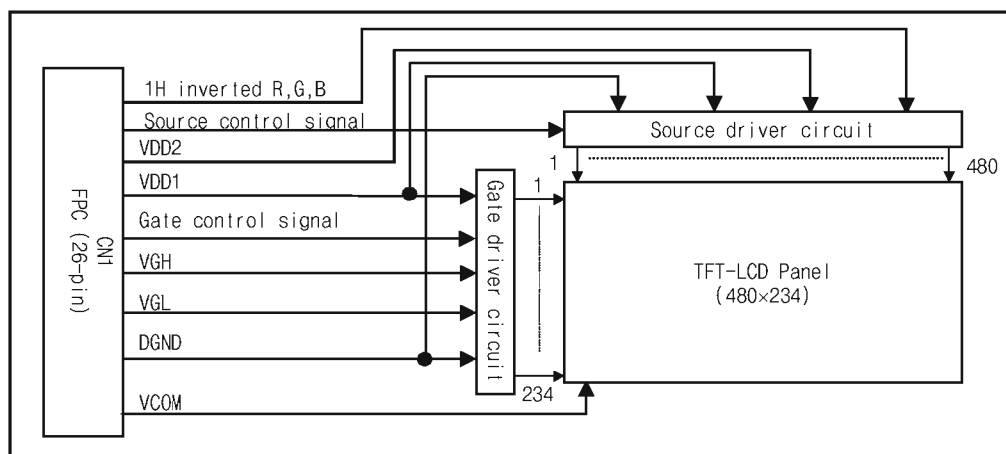
The LT070W02-TMJ2 is a **Board Assembly Product** of TFT LCD without any extra system.

This Board Assembly utilizes amorphous silicon thin film transistors and a 16:9 aspect ratio. A 7.0" active matrix liquid crystal display allows full color to be displayed.

The applications are Portable DVD, Multimedia applications and others AV system.

2. Features

- Utilizes a panel with a 16:9 aspect ratio, which makes the module suitable for use in wide-screen systems.
- The 7.0" screen produces a high resolution image that is composed of 112,320 pixel elements in a stripe arrangement.
- Wide viewing angle technology is employed.
[The most suitable viewing direction is in the 6 o'clock direction.]
- By adopting an active matrix drive, a picture with high contrast is realized.
- This Board Assembly is accomplished through the use of COG mounting technology.
- By adopting a high aperture panel, high transmittance color filter and high transmission polarizing plates, transmittance ratio is realized.



3. General Specification

CHARACTERISTIC ITEM	SPECIFICATION
Video Signal Interface	Analog Video Interface
Display Technology	a-Si TFT active matrix
Display Mode	TN Type Full Color / Transmitting Type / Normally White
Screen Size (Diagonal)	7.0" (17.78cm)
Outline Dimension	162.7mm (W) X 139.4mm (H) X 1.69mm (D)
Active Area	154.08mm (W) X 86.58mm (H)
Number Of dots	480(H) X 3(R,G,B) X 234(V)
Dot Pitch	0.107mm (W) X 0.370mm (H)
Color Filter Array	RGB vertical stripes
Weight	60 g (Max.)
Surface Treatment	Anti-Glare Treatment

Product Specification

4. Interface (Input terminal)

1> TFT-LCD Panel Driving Part

Pin No.	SYMBOL	FUNCTION	REMARK
1	GND	Ground for logic circuit	
2	VCC	Supply voltage of logic control circuit for scan driver	
3	VGL	Negative power for scan driver	
4	VGH	Positive power for scan driver	
5	STVR	Vertical start pulse	Down to up Sampling Mode Input
6	STVL	Vertical start pulse	Up to Down Sampling Mode Input
7	CLK	Shift clock input for scan driver	
8	U/D	Up/Down scan control Input	See 6-3> P.11
9	GOE	Output enable input for scan driver(GOE)	H: enable / L:disable
10	VCOM	Common electrode driving signal	
11	VCOM	Common electrode driving signal	
12	L/R	LEFT/RIGHT scan control input	See 6-3> P.11
13	MOD	Sequential sampling and simultaneous sampling setting	
14	SOE	Output enable input for data driver(INH)	
15	STHL	Start pulse for horizontal scan line	
16	STHR	Start pulse for horizontal scan line	
17	CPH3	Sampling and shifting clock pulse for data driver	
18	CPH2	Sampling and shifting clock pulse for data driver	
19	CPH1	Sampling and shifting clock pulse for data driver	
20	VCC	Supply voltage of logic control circuit for data driver	
21	GND	Ground for logic circuit	
22	VR	Alternated video signal input(Red)	
23	VG	Alternated video signal input(Green)	
24	VB	Alternated video signal input(Blue)	
25	AVDD	Supply voltage for analog circuit	
26	AVSS	Ground for analog circuit	

****The matching connector part number is GF053-26S-LSS(Bottom Contact Type) or GF055-26S-LSS (Top Contact Type) manufactured by LG Cable Ltd. or equivalent.**

Product Specification

5. Absolute Maximum Ratings

PARAMETER	SYMBOL	CONDITION	MIN.	MAX.	UNIT	REMARK
Logic Voltage	VDD1	$T_a=25^{\circ}\text{C}$	-0.3	6	V	
Source Driver Voltage	VDD2	$T_a=25^{\circ}\text{C}$	-0.3	6	V	
Digital Input Signals	V_{DI}	$T_a=25^{\circ}\text{C}$	-0.3	VDD1+0.3	V	[Note 5-1]
Analog Input Signals	V_{AI}	$T_a=25^{\circ}\text{C}$	-0.2	VDD2+0.2	V	[Note 5-2]
Gate Driver High Supply Voltage	VGH	$T_a=25^{\circ}\text{C}$	-0.3	40	V	
Gate Driver Low Supply Voltage	VGL	$T_a=25^{\circ}\text{C}$	-20	0.3	V	
Storage Temperature	T_{st}	-	-20	70	$^{\circ}\text{C}$	[Note 5-3,4]
Operating Temperature (Ambient Temperature)	T_a	-	-10	60	$^{\circ}\text{C}$	[Note 5-3,4,5,6]

[Note 5-1] STVR, STVL, CLK, U/D, GOE, STHL, MOD, L/R, MOD, SOE, STHL, STHR, CPH1, CPH2, CPH3

[Note 5-2] VR, VG, VB

[Note 5-3] This rating applies to all parts of the module and should not be exceeded.

[Note 5-4] Maximum wet-bulb temperature is 60°C . Condensation of dew must be avoided as electrical current leaks will occur, causing a degradation of performance specifications.

[Note 5-5] The operating temperature only guarantees operation of the circuit. The contrast, response speed, and the other specification related to electro-optical display quality is determined at the room temperature, $T_a \approx 25^{\circ}\text{C}$.

[Note 5-6] Ambient temperature when the backlight is lit (reference value).

Product Specification

6. Electrical Characteristics

1> Recommended Operating Conditions

◆ TFT-LCD Panel Driving Section

 $T_a = 25^{\circ}\text{C}$

PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Logic Supply Voltage		VDD1	3.0	3.3	5.5	V	
Digital Input Signal	High Level	V_{IH}	0.8VDD1	-	VDD1	V	
	Low Level	V_{IL}	0	-	0.2VDD1	V	
Source Driver Supply Voltage		VDD2	4.5	5.0	5.5	V	
Gate Driver	High Supply Voltage	VGH	16.0	16.5	17.0	V	
	Low Supply Voltage	VGL	-15	-10	-5	V	
Analog Video Signal Input Voltage		V_{VI}	AGND+1.0	-	VDD2-1.0	V	
Color Filter Substrate Voltage	AC Component	$V_{COM_{AC}}$	4.0	5.0	6.0	V_{P-P}	
	DC Component	$V_{COM_{DC}}$	-	(1.9)	-	V	[Note 1]

[Note 1] This value should be tuned for optimal display quality of each panel.

***** Cautionary Matter : When applying or disconnecting power, please be sure that such action is sequentially carried out for all power supplies. In addition, apply input signals only after power has been turned on.

-Source Driver :

Turn on power to VDD1 and VDD2 in this order.
 Turn off power in the reverse order.

-Gate Driver :

Turn on power to VDD1, VGL and VGH in this order.
 Turn off power in the reverse order.

Product Specification

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Logic Supply Current	I_{DD1}	-	-	5.0	mA	VDD1 = 3.3V
Source Driver Supply Current	I_{DD2}	-	-	50	mA	VDD2 = 5.0V
Gate Driver High Supply Current	I_{GH}	-	-	0.5	mA	VGH=16.5V
Gate Driver Low Supply Current	I_{GL}	-	-	15	mArms	VGL _{DC} =-10V

Product Specification

2> Timing Characteristics of input signals

	PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
S O U R C E	Clock cycle time	Tcph	100	-	2000	ns	CPHn
	CPHn pulse duty	Tcwh	40	-	60	%	CPHn
	CPHn phase delay	Tc12 Tc23 Tc31	20	-	Tcph/2	ns	CPH1-CPH2 CPH2-CPH3 CPH3-CPH1
	Set-up time of analog signals	Tasu	60	-	-	ns	VA,VB,VC-CPHn
	Hold time of analog signals	Tahd	40	-	-	ns	CPHn-VA,VB,VC
	STHn set-up time	Tsu	20	-	-	ns	STHn-CPHn
	STHn hold time	Thd	10	-	-	ns	CPHn-STHn
	Propagation delay of STHn	Tphl	10	35	50	ns	CL=25pF
	Sample and hold disable time	Tdis	8	-	-	us	OE-STHn
	SOE pulse width	Twoe	1	-	-	Tcph	
G A T E	STVD/STVU Delay Time	Tdt	-	-	500	ns	
	Driver Output Delay Time	Tdo	-	-	900	ns	
	Output Falling Time	Tthl	-	400	800	ns	
	Output Rising Time	Ttlh	-	500	1000	ns	
	OEx to Driver Output Delay Time	Toe	-	-	900	ns	
	Clock Frequency	Fclk	-	-	200	KHz	
	Clock Rise Time	Trck	-	-	100	ns	
	Clock Falling Time	Tfck	-	-	100	ns	
	Clock Pulse Width (High & Low)	PWCLK	500	-	-	ns	
	STVD/STVU Set-up Time	Tsu	200	-	-	ns	
	STVD/STVU Hold Time	Thd	300	-	-	ns	
	Output Enabled pulse	Twcl	1	-	-	ns	

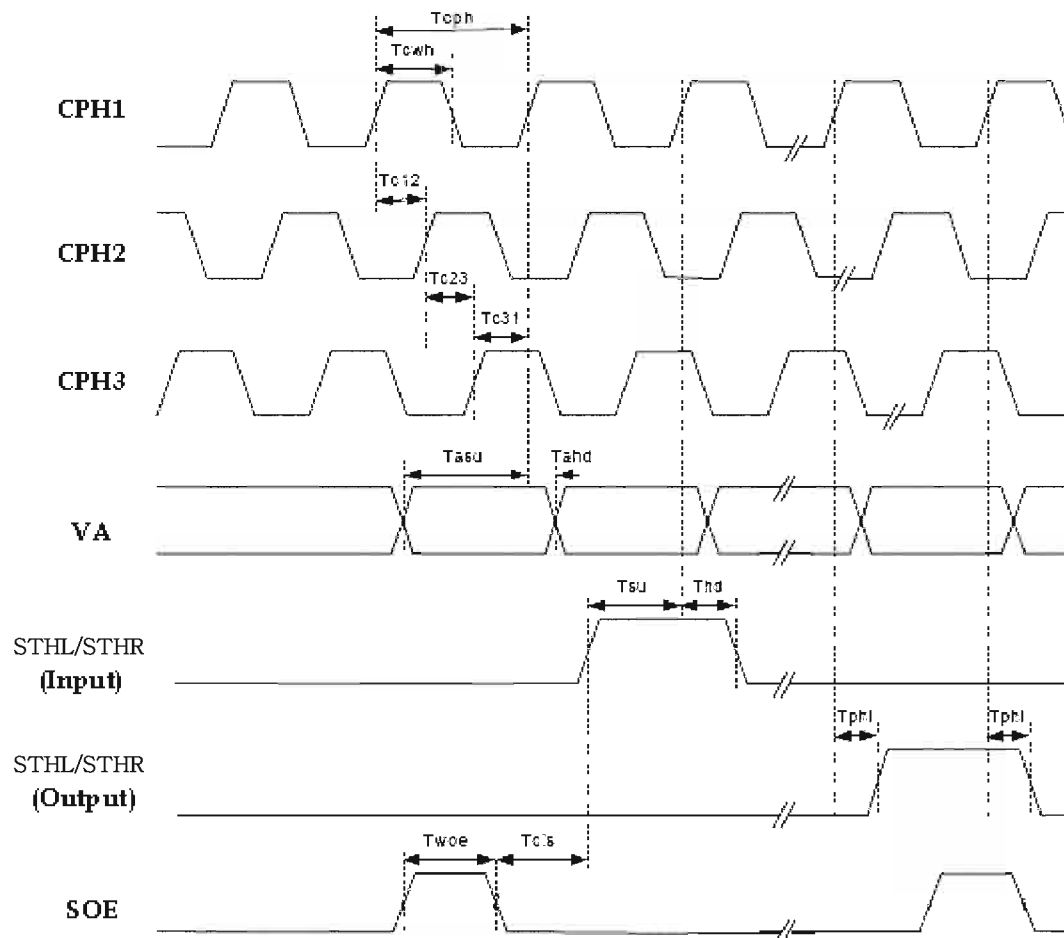
3> Scanning Mode Selection (Reference position : @ Input terminal)

MODE	L/R	U/D	STHL	STHR	STVL	STVR	REMARK
Normal Mode	H	L	Signal Output	Signal Input	Signal Input	Signal Output	See P.15 (the figure of [Note 7-3])
Left/Right, Up/Down Reverse Mode	L	H	Signal Input	Signal Output	Signal Output	Signal Input	

***** H(High Level) =VDD1 , L(Low Level)=DGND

Product Specification

Timing for a Source Driver

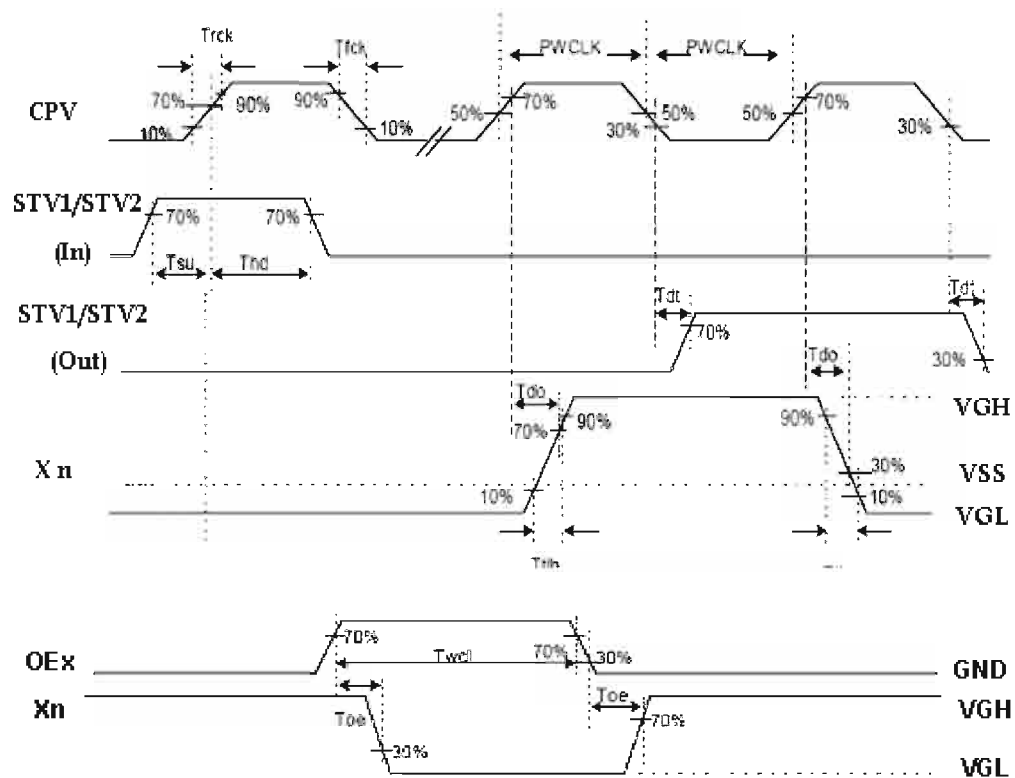


- Remark : The sample-and-hold circuits are switched and the outputs are started with new data at the rising edge of SOE.

" For T_{we} period, shift register in source driver are reset internally."

Product Specification

Switching Characteristics Waveform for Gate Driver



Product Specification

7. Electro-optical Characteristics

 $T_a = 25^\circ\text{C}$

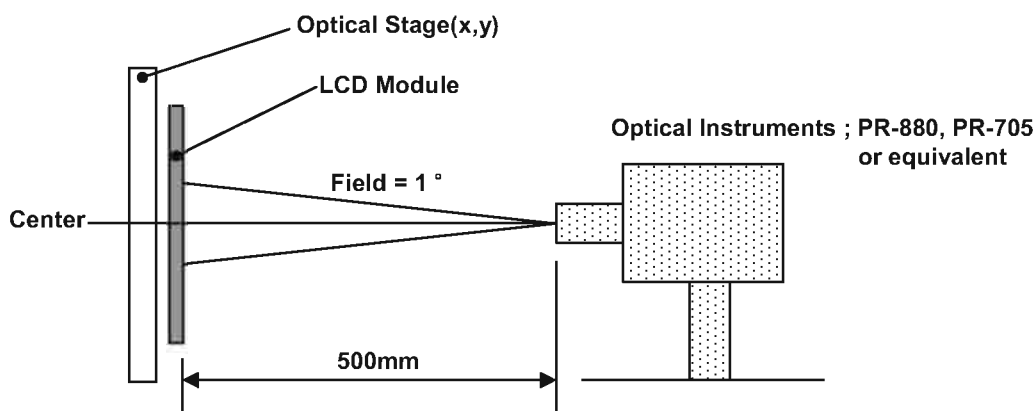
PARAMETER		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	REMARK
Transmittance		T	-	7.00	8.75	-	%	
Contrast Ratio		CR	Optimal	300	400	-	-	[Note 7-2]
White Color Chromaticity		W_x	-	287	317	347	-	[Note 7-1]
		W_y		311	341	371	-	
Viewing Angle	$\phi=180^\circ$	Θ_l	$CR \geq 10$	60	65	-	$^\circ$	[Note 7-2] [Note 7-3]
	$\phi=0^\circ$	Θ_r		60	65	-	$^\circ$	
	$\phi=90^\circ$	Θ_u		40	45	-	$^\circ$	
	$\phi=270^\circ$	Θ_d		50	55	-	$^\circ$	
Response Time	Rise	τ_r	$\Theta=0^\circ$	-	10	20	ms	[Note 7-4]
	Fall	τ_d		-	15	25	ms	

** All transmissive mode optical characteristics are measured under back light condition.
but, following conditions are just "Internal Conditions for Quality Test" of LG.Philips LCD.

< Reference Backlight Unit >

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Luminance	B_1	-	3150	-	cd/m ²	Center Point
White Color Chromaticity	X	-	0.290	-	-	Center Point
	Y	-	0.283	-		Center Point

Product Specification



Measuring Condition ;

-Measuring surroundings : Dark Room

-Measuring temperature : $T_a = 25^\circ\text{C}$

-Adjust operating voltage to get optimum contrast at the center of the display.

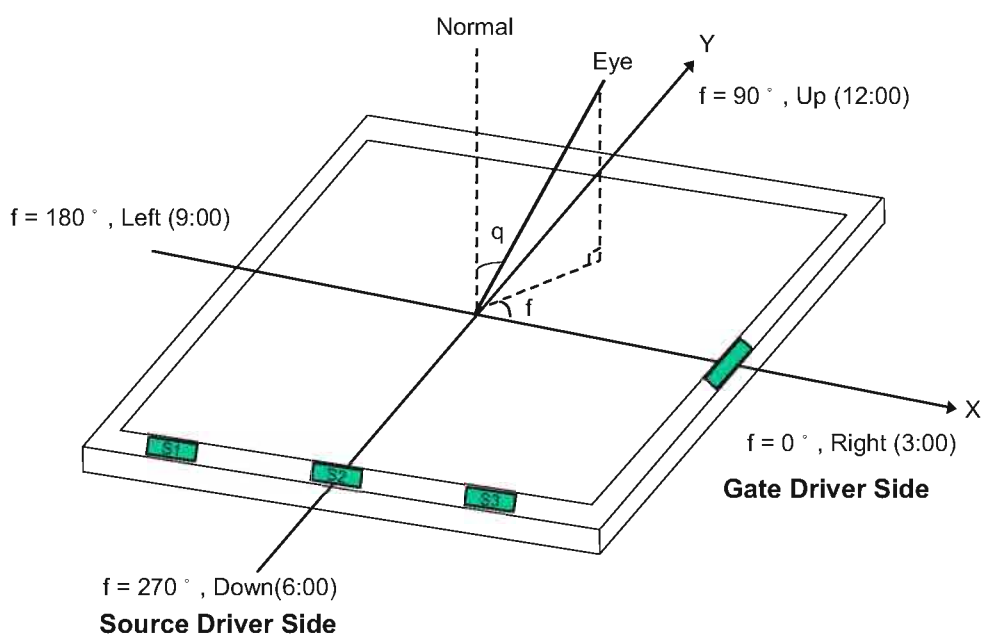
-Measured value at the center point of LCD panel after more than 30 minutes while backlight turning on.

[Note 7-1] Measured on the center area of the panel by PHOTO RESEARCH photometer PR-880.

[Note 7-2] Contrast ratio is defined as follows ;

$$\text{Contrast Ratio(CR)} = \frac{\text{Photo detector output with LCD being "white"}}{\text{Photo detector output with LCD being "black"}}$$

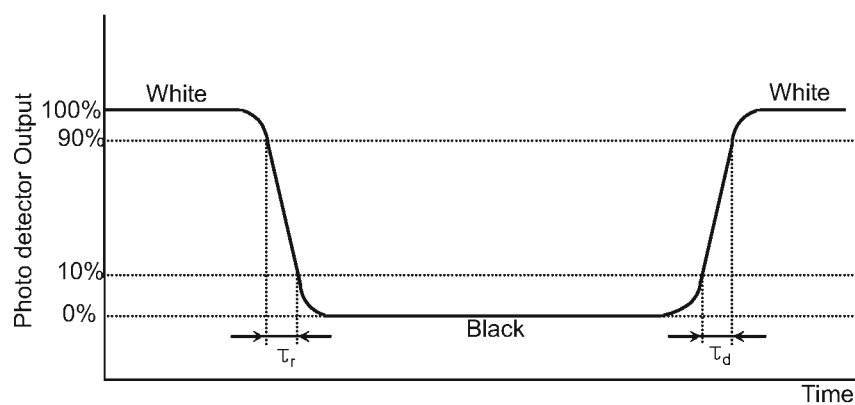
[Note 7-3] Viewing angle range is defined as follows;



Product Specification

[Note 7-4]

Response time is obtained by measuring the transition time of photo detector output, when input signals are applied so as to make the area "black" to and from "white".



Product Specification

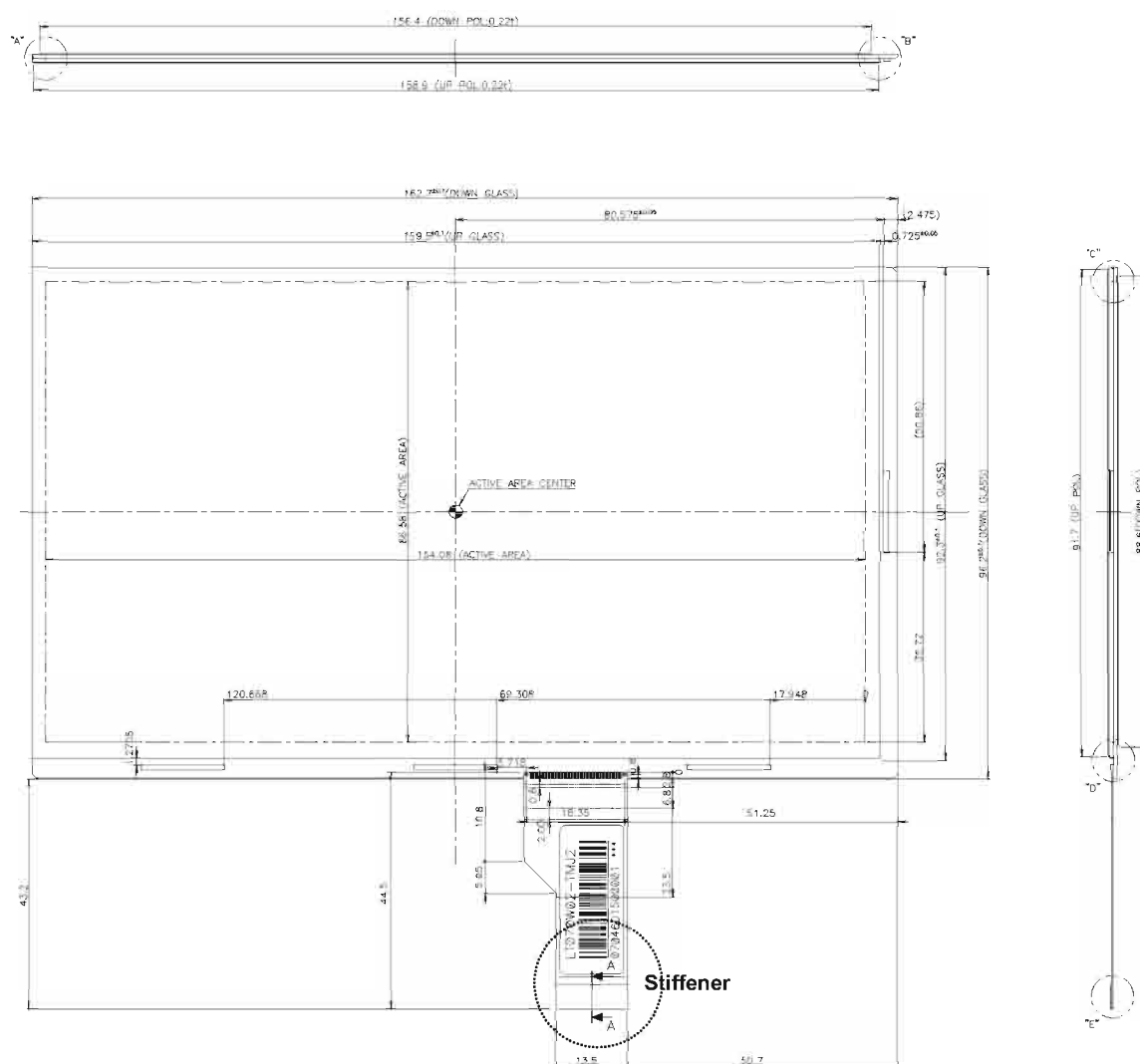
8. Mechanical Characteristics

PARAMETER	SPECIFICATION		UNIT	REMARK
Outline Dimension	Width	162.7	mm	
	Height	139.4	mm	
	Depth	1.69 (TYP)	mm	
Active Display Area	Width	154.08	mm	
	Height	86.58	mm	
Weight	60 (Max.)		g	
Surface Treatment	Anti-Glare Treatment		-	

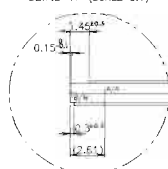
Product Specification

[Outline Dimension]

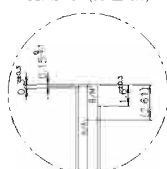
Note) Unit:[mm], General tolerance: $\pm 0.3\text{mm}$



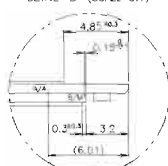
DETAIL "A" (SCALE 9:1)



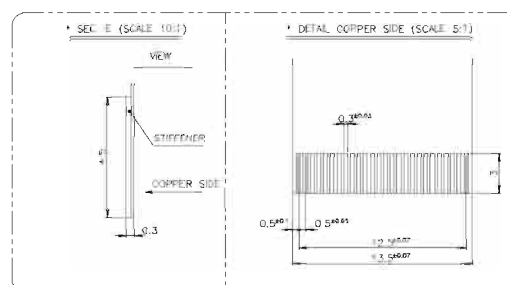
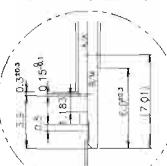
DETAIL "C" (SCALE 5:1)



DETAIL "B" (SCALE 5:1)



DETAIL "D" (SCALE 5:1)



Product Specification

9. Reliability Test

No.	Test Items	Test Condition	REMARK
1	High Temperature Storage Test	Ta=70℃ 240h	[Note 9-1,2,3]
2	Low Temperature Storage Test	Ta=-20℃ 240h	[Note 9-1,2,3]
3	High Temperature Operation Test	Ta=60℃ 240h	[Note 9-1,2,3]
4	Low Temperature Operation Test	Ta =-10℃ 240h	[Note 9-1,2,3]
5	High Temperature and High Humidity Operation Test	Ta=50℃ 80%RH 240h	[Note 9-1,2,3]
6	Thermal Shock Test	-10℃ (0.5h) ~ 60℃ (0.5h) / 100 cycles	

[Note 9-1] T_a = Ambient Temperature

[Note 9-2] In the Reliability Test, Confirm performance after leaving in room temp.

[Note 9-3] In the standard condition, there shall be no practical problems that may affect the display function.

Product Specification

10. Packing

10-1. Designation of Lot Mark

a) Lot Mark

A	B	C	D	E	F	G	H	I	J	K	L	M
---	---	---	---	---	---	---	---	---	---	---	---	---

A,B,C : SIZE(INCH)
E : MONTH

D : YEAR
F ~ M : SERIAL NO.

Note

1. YEAR

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Mark	1	2	3	4	5	6	7	8	9	0

2. MONTH

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mark	1	2	3	4	5	6	7	8	9	A	B	C

b) Location of Lot Mark

Serial No. is printed on the label. The label is attached to the backside of the LCD module.

10-2. Packing Form

a) Package quantity in one box : 80 pcs

b) Box Size(mm) : 384(L)×334(W)×191(H)

Product Specification

11. PRECAUTIONS

Please pay attention to the following when you use this TFT LCD COG Assembly(Board Ass'y).

11-1. MOUNTING PRECAUTIONS

- (1) You must mount a Board Ass'y using packing trays arranged.
And do not hold on to the FPC while carrying.
- (2) You should consider the mounting structure so that uneven force(ex. Twisted stress) is not applied to the Board Ass'y.
And the case on which a Board Ass'y is mounted should have sufficient strength so that external force is not transmitted directly to the Board Ass'y.
- (3) Please attach a transparent protective plate to the surface in order to protect the polarizer.
Transparent protective plate should have sufficient strength in order to resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not describe because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
Do not touch the surface of polarizer for bare hand or greasy cloth.(Some cosmetics are determined to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

11-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage :
 $V = \pm 200\text{mV}$ (Over and under shoot voltage)
- (2) Response time depends on the temperature.(In lower temperature, it becomes longer.)
- (3) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (4) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (5) Sufficient suppression to the electromagnetic interference shall be done by system manufacturers.
Grounding and shielding methods may be important to minimize the interference.

Product Specification

12-3. ELECTROSTATIC DISCHARGE CONTROL

Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly.

12-4. PRECAUTIONS FOR STRONG LIGHT EXPOSURE

Strong light exposure causes degradation of polarizer and color filter.

12-5. STORAGE

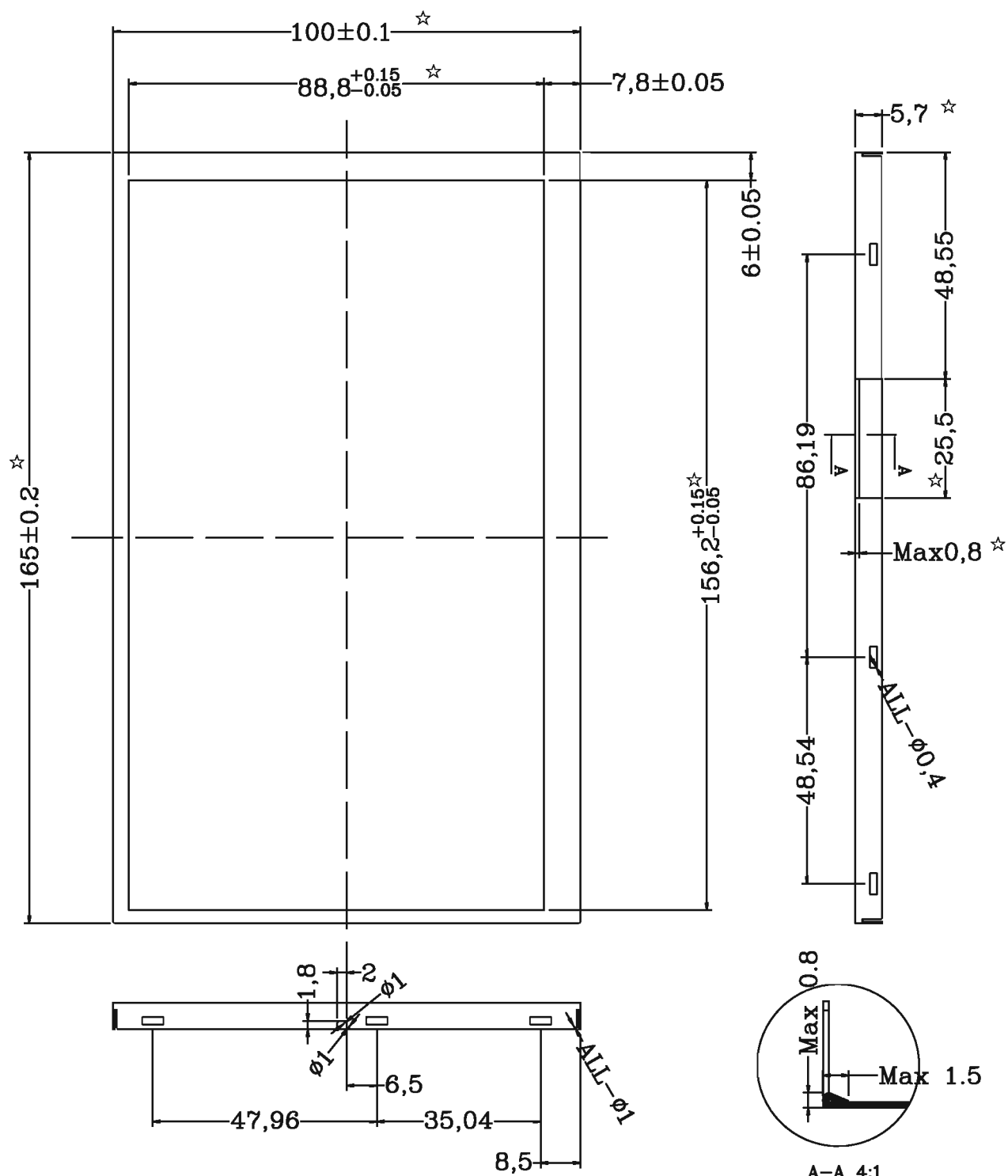
When storing modules as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5°C and 35°C at normal humidity.
- (2) The polarizer surface should not come in contact with any other object.
It is recommended that they be stored in the container in which they were shipped.

12-6. HANDLING PRECAUTIONS FOR PROTECTION FILM

- (1) When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) The protection film is attached to the polarizer with a small amount of glue. If some stress is applied to rub the protection film against the polarizer during the time you peel off the film, the glue is apt to remain on the polarizer.
Please carefully peel off the protection film without rubbing it against the polarizer.
- (3) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the polarizer after the protection film is peeled off.
- (4) You can remove the glue easily. When the glue remains on the polarizer surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

上铁框图:



Note:

Unit: mm

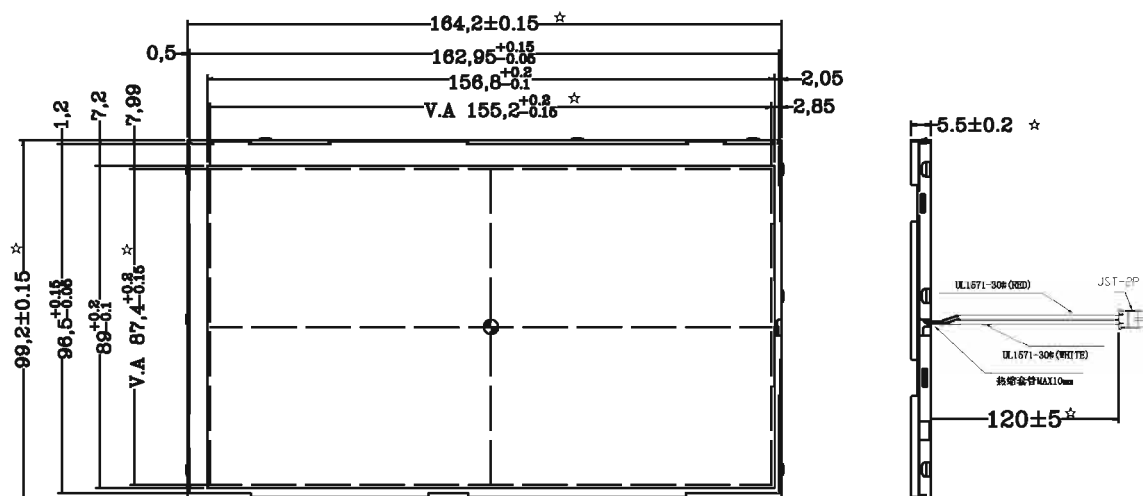
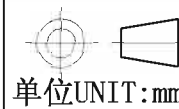
notspecifiedTolerance:

$\pm 0.2\text{mm}$

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DATE	2008. 04. 30	2-08-L070F6-009L			
PAGE	1/5				

1. SCOPE OF APPLICATION

This specification is applied to the back light unit delivered
by Xing Yuan Electronic Technology(Shen Zhen)Co.,Ltd



Note:

Unit: mm

notspecifiedTolerance:

$\pm 0,2\text{mm}$

MARK	DATE	REMARKS			
REVISION	A0	MODEL NO	APPROVEDBY	CHECKEDBY	DRAWNBY
DATE	2008. 04. 30	2-08-L070F6-009L			
PAGE	2/5				

3. ELECTRICAL/OPRICAL CHARACTERISTICS AT Ta=25℃

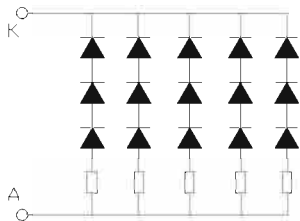
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Average Luminous Intensity	Iv	3500	3700		cd/m ²	IF=125mA, 3※5=15
chromaticity coor dinaies	X	0.275	0.290	0.305		IF=25mA/SMD
	Y	0.280	0.295	0.310		IF=25mA/SMD
Forward Voltage	VF	9.3	9.9	10.5	V	IF=125mA, 3※5=15
Reverse Current	IR			50	uA	VR=5V, ※1
Luminous Tolerance	Iv-m	80	85		%	(min/max)*100

※注：9点平均亮度必须在3500cd/m² 以上。

4. ABSOLUTE MAXIMUM RATINGS AT Ta=25℃

PARAMETER	SYMBOL	SPECIFICATION	UNITS	REMARK
Power Dissipation	Pd	1890	mW	※1
Peak Forward Current	IFP	600	mA	※1
ReverseVoltage	VR	5	V	※1
Operaring Temperature	TOPR	-30℃ TO+70℃	℃	
Storage Temperature	TSTG	-30℃ TO+80℃	℃	

※1.Internal Circuit Diagram



CURRENT IF=125mA

5. MEASURING CINDITION AND METHOD FOR OPTICAL CHARACTERISTICS

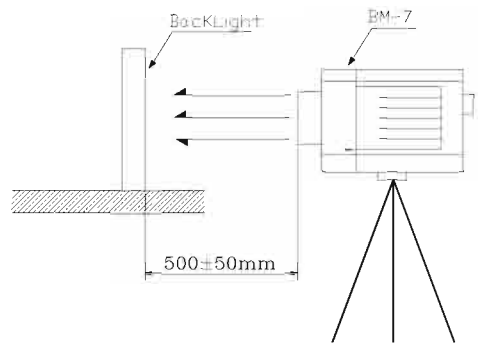
5.1 Measuring environment

- (1)Measuring envionment: Ambient temperature23 ±2 ℃ ,Humidity60±5%RH, Draft free condition Dark room(less then 10Lux)
- (2)BackLight drive: BackLight shall drive with 25mA/ea ofinput current
- (3)Measuring Insument:BM-7
- (4)Measuring Time:Measuring shsll carry out when the thermal heat reach to a state ofperfect valance after driving BackLight more than 5minutes

REVISION	A0	MODEL NO	APPROVEDBY	CHECKEDBY	DRAWNBY
DATE	2008. 04. 30	2-08-L070F6-009L			
PAGE	3/5				

5.2 Measuring Method

Measuring point: The brightness measuring device shall be located at a distance of $500 \pm 50\text{mm}$ from the radiation surface of BackLight with perpendicular direction and the measurement is to be carried out under the visual angle of brightness measuring device is set as 1.0

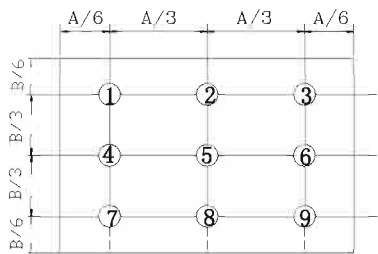


5.3 Measurement of Luminance (Measuring Apparatus: BM-7)

This luminous intensity is the average of 59 detected points.

The standard aperture is set at $\varnothing 10$

Luminous Tolerance: The ratio of the maximum luminance ($B_{\max}$) and the minimum luminance ($B_{\min}$) based on 9 detected points



6. DEFECTIVE APPEARANCE

DEFECTIVE APPEARANCE	SPECIFICATION	TOLERANCE NUMBER
Blackspot Whitespot	$0.30 < D$	0
	$0.10 < D \leq 0.30$	3
	$D \leq 0.10$	No check
Foreign Material Line	$2.50 < L$	0
	$1.00 < L \leq 2.50$	3
	$L \leq 1.00$	No check
	$W \leq 0.02$	No check

D: (Major Axis+Minor Axis)/2

L: Length

W: Width

Whatever the length, if any foreign material line is crossed, which will be a defective unit.

Foreign particle existence other than the light emitting area need not be checked.

It is excluded not to see the foreign particle in light emitting area while separated by 30cm.

REVISION	A0	MODEL NO	APPROVED BY	CHECKED BY	DRAWN BY
DATE	2008. 04. 30	2-08-L070F6-009L			
PAGE	4/5				

7. Reliability Test

NO.	Test Items	Test Condition	REMARKS
1	High Temperature Storage Test	Ta=80° C 240Hour	【NoTe 7-1.2.3】
2	Low Temperature Storage Test	Ta=-30° C 240Hour	【NoTe 7-1.2.3】
3	High Temperature Operation Test	Ta=70° C 240Hour	【NoTe 7-1.2.3】
4	Low Temperature Operation Test	Ta=-20° C 240Hour	【NoTe 7-1.2.3】
5	High Temperature and High Humidity Operation Test	Ta=60° C 96%RH 240Hour	
6	Thermal Shock Test	-30° C(0%RH)~80° C(96%RH) 30 Cycles	
7	Vibration Test (non-Operating)	45Hz 1Hour	
8	Pulling-force Test	1.0Kg/cm 10ms	
9	Package Drop Test	Height:60cm 1 Corner 3Edges 6 Surfaces	

【NoTe 7-1】 Ta=Ambient temperature

【NoTe 7-2】 In the Reliability Test,
Confirm performance after leaving in room temp.

【NoTe 7-3】 In the standard condition, there shall be no practical problems that may affect the display function

REVISION	A0	MODEL NO	APPROVEDBY	CHECKEDBY	DRAWNBY
DATE	2008.04.30	2-08-L070F6-009L			
PAGE	5/5				

☐ 进料 ☐ 制程 ☐ 成品 ☒ 样品 ☐ 其它

光源类别: ☒ LED ☐ CCFL

日期: 2008-04-30

☒ 顾客 ☐ 供方		导电科技		☒ 成品型号 ☐ 原料料号: 2-08-L070F6-009L				图示:										
项次	Parameter参数		Sysbol	Min	TYP	Max	Unit	Remark备注										
1	Average Luminous Intensity		IV	3500	3700			IF= 125 mA										
2	Chromaticity Coordinates 色坐标		X	0.275	0.290	0.305		IF= 25 mA/SMD										
3			Y	0.280	0.295	0.310												
4	Forward Voltage 顺向电压		Vf	9.3	9.9	10.5	V	IF= 125 mA										
5	Reverse Current 逆向电流		IR			50	UA	VR= 5 V										
6	Luminous Tolerance 均匀度		IV-m	80	85		%	Min/max*100										
								Test Set测试仪器: ☒ BM-7 ☐ ST-86L ☐ 其它										
								Temperature温度: 23±2 °C										
								Humidity湿度: 65±5 %RH										
								TestCondition测试条件: 25 mA/Chip										
point	Sample 1			Sample 2			Sample 3			Sample 4			Sample 5			Sample 6		
	☒ 背光 ☐ 模组			☐ 背光 ☐ 模组			☐ 背光 ☐ 模组			☐ 背光 ☐ 模组			☐ 背光 ☐ 模组			☐ 背光 ☐ 模组		
	亮度 Luminance	X坐标	Y坐标	亮度 Luminance	X坐标	Y坐标	亮度 Luminance	X坐标	Y坐标	亮度 Luminance	X坐标	Y坐标	亮度 Luminance	X坐标	Y坐标	亮度 Luminance	X坐标	Y坐标
1	3780	0.2757	0.316															
2	4009	0.2773	0.3161															
3	3895	0.2777	0.3194															
4	3883	0.2781	0.3201															
5	4030	0.2782	0.3167															
6	3716	0.276	0.3169															
7	3773	0.2772	0.3179															
8	4017	0.2788	0.3189															
9	3953	0.2789	0.3199															
10																		
11																		
12																		
平均Avg	3895																	
均匀ToL	92%																	
最小Min	3716																	
最大Max	4030																	
最终判定: ☒ 允收 ☐ 拒收 ☐ 特采 ☐ 重工 ☐ 全检 ☐ 报废																		

[保存期限: 1年]

共1页, 第1页 XY-QP-022-03-A2

核准:

审核:

检验员:

品质检验记录

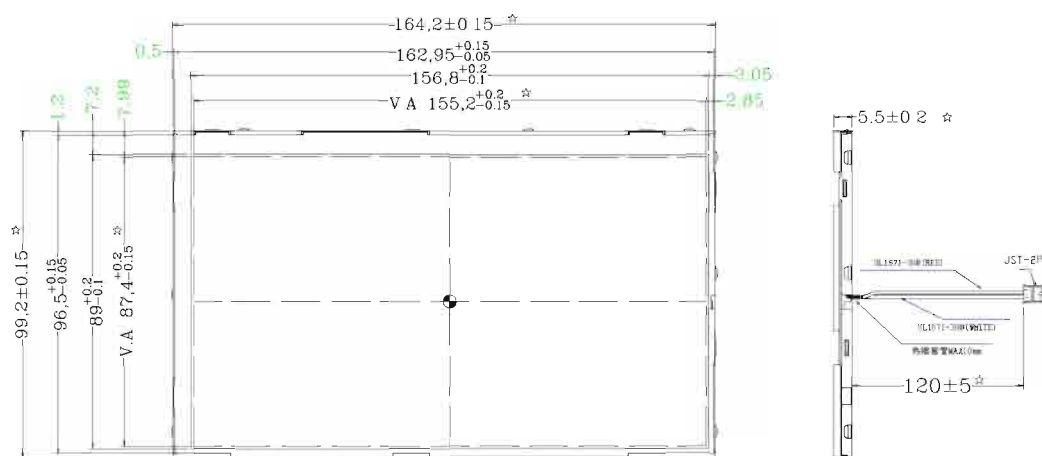
☐ 进料 ☐ 制程 ☐ 成品 ☒ 成品样品 ☐ 原物料样品 ☐ 其它

日期: 2008-04-30

■顾客 ☐ 供方 导电科技		料号 2-08-L070F6-009L			品名 7 寸 LED 背光源		抽样计划 MIL-STD-105E Level II	
项次	检验项目	批量	抽样数	AQL	AC/RE	不良数	缺 点 说 明	
1	数量 CR	2	2	/	/	0		
2	外观 CR	2	2	/	/	0		
3	外观 mA	2	2	/	/	0		
4	外观 mI	2	2	/	/	0		
5	尺寸 CR	2	2	/	/	0		
6	电性 CR	2	2	/	/	0		
7	电性 mA	2	2	/	/	0		
8	电性 mI	2	2	/	/	0		
9	包装 CR	2	2	/	/	0		

依据: ☐ 原物料承认书 ☒ 成品规格 ☐ 生产规格 ☐ 一般检验规范 ☐ 特殊检验规范
☐ 供方进料品质履历表 ☐ 限度样品

图面资料:



项次	规格	Sample 1	Sample 2	Sample 3	Sample4	Sample 5	备 注
1	164.2 ± 0.15	164.21	164.20				■全尺寸量测, 第 1 / 1 页
2	162.2+0.15/-0.05	162.22	162.24				
3	V/A155.2+0.2/-0.15	155.24	155.20				
4	99.2 ± 0.15	99.27	99.25				
5	96.5+0.15/-0.05	96.53	96.54				
6	V/A87.4+0.2/-0.15	87.44	87.43				
7	5.5 ± 0.2	5.54	5.56				
8	120 ± 5	120.26	120.24				
最终判定		■允收 □拒收 □特采 □重工 □全检 □报废					

主管:

工程师:

检验员:

[保存期限: 一年]

XY-QP-020-02-A0