






晶發科技有限公司  
GI FAR TECHNOLOGY CO.,LTD

No. 11, Lane 249, Sec. 2, Chung Shan Rd., Shulin City, Taipei Hsien, Taiwan, R.O.C.



# SPECIFICATIONS

**CUSTOMER :** \_\_\_\_\_  
**MODEL NO. :**           **GFB640480B-DNCE5B**            
**VERSION :**   **A**    
**DATE :**   **2014.09.26**    
**CERTIFICATION :**   **ROHS**  

Customer Sign	Approved By	Prepared By	Prepared By
			

晶發科技有限公司  
GI FAR TECHNOLOGY CO.,LTD

台北縣樹林市中山路二段 249 巷 11 號  
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## Revision Record

Data(y/m/d)	Ver.	Description	Note	page
2014.09.26	A	Specification released		



## 1.MECHANICAL DATA

NO.	ITEM	CONTENTS	UNIT
1	Product No.	GFB640480B-DNCE5B	
2	Module Size	260.5 (W) x 174.0 (H) x 8.0 Max. (D)	mm
3	Dot Size	0.27 (W) x 0.27 (H)	mm
4	Dot Pitch	0.30 (W) x 0.30 (H)	mm
5	Number of Dots	640 (W) x 480 (H)	Dot
6	Duty	1/240	—
7	LCD Display Mode	Normal Black / Negative Image	—
8	Rear Polarizer	Transmissive	—
9	Viewing Direction	6	O'clock
10	Backlight	CCFL	—
11	Controller	Excluded	—
12	DC/DC Converter	Excluded	—
13	Touch Panel	Excluded	—
14	Weight	350 (Approx.)	g

WORLDWIDE  
COPY



## 2.ABSOLUTE MAXIMUM RATINGS

### 2-1.ELECTRICAL ABSOLUTE RATINGS

VSS=0V

ITEM	SYMBOL	MIN.	MAX.	UNIT	COMMENT
Power Supply for Logic	VDD-VSS	-0.3	7	V	
Power Supply for LCD Drive	VSS-VEE	0	27	V	
Input Voltage	VI	-0.3	VDD	V	
Static Electricity	—	—	—	—	Note 1

Note 1 LCM should be grounded during handling LCM.

### 2-2.ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS

ITEM	WIDE TEMP.			
	OPERATING		STORAGE	
	MIN.	MAX.	MIN.	MAX.
Ambient Temperature(°C)	-20	70	-30	80
Humidity (Without Condensation)	Note 2,4		Note 3,4	

Note 2  $T_a \leq 70^\circ\text{C}$  : 75%RH MAX.

Note 3 Please refer to item of reliability test.

Note 4 Background color will change slightly depending on ambient temperature.  
That phenomenon is reversible.


Note 5 Operation temp not include CCFL Lamp.





### 3.ELECTRICAL CHARACTERISTICS

#### 3-1.ELECTRICAL CHARACTERISTICS OF LCM

ITEM	SYMBOL	CONDITION		MIN.	TYP.	MAX.	UNIT
Power Supply for Logic	VDD-VSS	—		4.5	5.0	5.5	V
Input Voltage	VIH	H Level		0.8VDD	—	VDD	V
	VIL	L Level		0	—	0.2VDD	
Recommended LC Driving Voltage	VDD-VEE (Vop)	Duty = 1/240	-20°C	26.1	26.6	27.1	V
			0°C	24.3	24.8	25.3	
			25°C	23.4	23.9	24.4	
			50°C	22.5	23.0	23.5	
			70°C	21	21.5	22	
Power Supply Current (Ta=25°C)	IDD	VDD-VSS=5.0V VDD-VEE = 23.9 V FLM = 70 Hz		—	60	90	mA
	IEE	Pattern: 		—	2	5	
LCM Surface Luminance (Ta=25°C)	L	IL=5mA	Dots All On	55	70	—	cd/m <sup>2</sup>
			Dots All Off	—	2	—	



### 3-2.ELECTRICAL CHARACTERISTICS OF BACKLIGHT

Used Lamp Rating

Ta=25°C

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Lamp Voltage	VL	—	440	—	Vrms	—
Lamp Current	IL	—	5	—	mArms	—
Lamp Power Consumption	PL	—	2.2	—	W	(*1)
Starting Voltage	VS	—	—	590	Vrms	Ta=25°C
		—	—	685	Vrms	Ta=0°C
Lamp life time	LL	—	30,000	—	Hrs	at IL=5 mArms Ta=25°C (*2)

(\*1) Power consumption excluded inverter loss.

(\*2) Lamp life time is defined as follows : The final brightness is at 50% of original brightness.

(\*3) a. Please follow the table of lamp characteristics shown above if not to use the inverter tested by Nan Ya.

b. If customers want to design inverter by themselves, please inform Nan Ya to offer the detail lamp specification.

2010010001  
NAN YA



### 3-3.ELECTRICAL CHARACTERISTICS OF TESTED INVERTER

#### TDK CXA-L10L

( If the inverter output "CN2" couldn't mating CCFL connector, please refer to specification "INTERNAL PIN CONNECTION" page to fit it.)

#### 3-3-1 GENERAL SPECIFICATIONS

OPERATION TEMPERATURE : -10°C ~60°C

STORAGE TEMPERATURE : -20°C ~85°C

DIMENSION : 44.0(L)mm x 21.0(W)mm x MAX. 18.0(H)mm

#### 3-3-2 PIN ASSIGNMENTS

INPUT(CN1) CONNECTOR :

NO.	FUNCTION
1	VIN
2	GND

OUTPUT(CN2) CONNECTOR :

NO.	FUNCTION
3	OUT1
4	OUT2
5	OUT GND

#### 3-3-3 RELATIONSHIP BETWEEN VIN & TUBE CURRENT(CONNECTION C)

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Input Voltage	VIN	—	10.8	—	V	
Tube Current	IL	—	5	—	mA	



## 4.OPTICAL CHARACTERISTICS

### 4-1.Optical Char. of Wide Temp. Mode

at Vop

ITEM		Cr(Contrast Ratio)										$\theta$ (Viewing Angle)		$\varphi$ (Viewing Angle)	
		-20°C		0 °C		25 °C		50 °C		70°C		25 °C		25 °C	
MODE		MIN.	TYP.	MIN.	TYP.	MIN.	TYP.	MIN.	TYP.	MIN.	TYP.	Viewing Direction	TYP.	Viewing Direction	TYP.
T	G	9.1	13	10.5	15	14	20	5.6	8	1.8	2.5	6 O'clock	45	9 O'clock	40
												12 O'clock	30	3 O'clock	40
NOTE		NOTE 3,6										NOTE 3,5			

NOTE :

T: Transmissive

G : Normally Black , 6 O'clock

at  $\varphi = 0^\circ, \theta = 0^\circ$

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	NOTE
Response Time (rise)	Tr	-20 °C	—	4000	6000	ms	NOTE 2,3
		0 °C	—	1000	1500		
		25 °C	—	300	450		
		50 °C	—	160	240		
		70 °C	—	80	120		
Response Time (fall)	Tf	-20 °C	—	2000	3000	ms	NOTE 2,3
		0 °C	—	800	1200		
		25 °C	—	200	300		
		50 °C	—	80	120		
		70 °C	—	60	90		

※The above LCD optical characteristics are based on DMS-501 measured data.





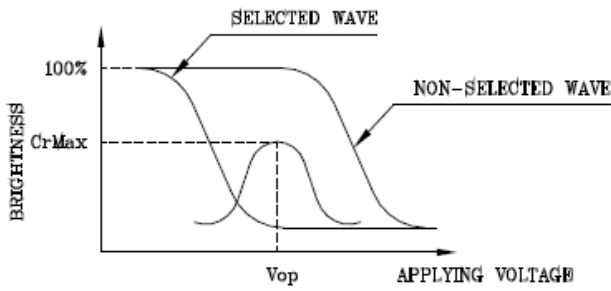
# 晶發科技有限公司 GI FAR TECHNOLOGY CO.,LTD

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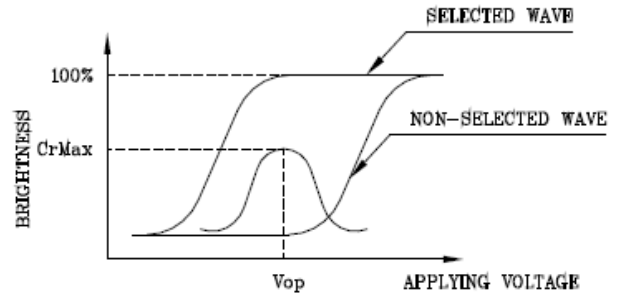


(NOTE 1)

Definition of Operation Voltage(Vop)



(positive type)



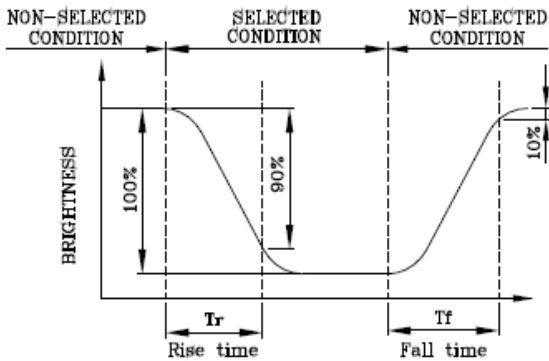
(negative type)

\*Conditions

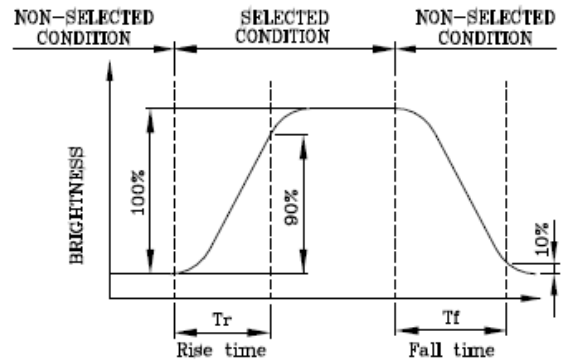
Viewing Angle : 0  
Frame Frequency : 70Hz  
Applying Waveform : 1/N duty 1/a bias

(NOTE 2)

Definition of Response Time(Tr,Tf)



(positive type)



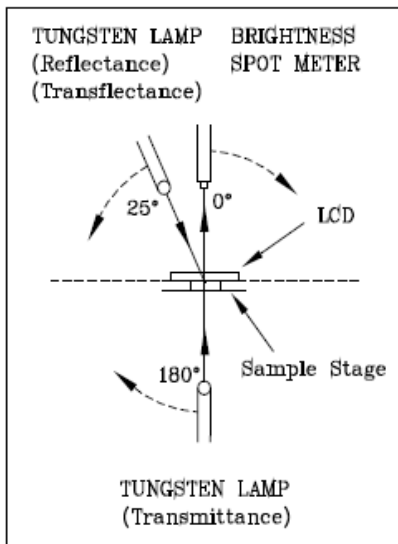
(negative type)

\*Conditions

Operating Voltage : Vop  
Viewing Angle (θ,φ) : (0,0)  
Frame Frequency : 70Hz  
Applying Waveform : 1/N duty 1/a bias

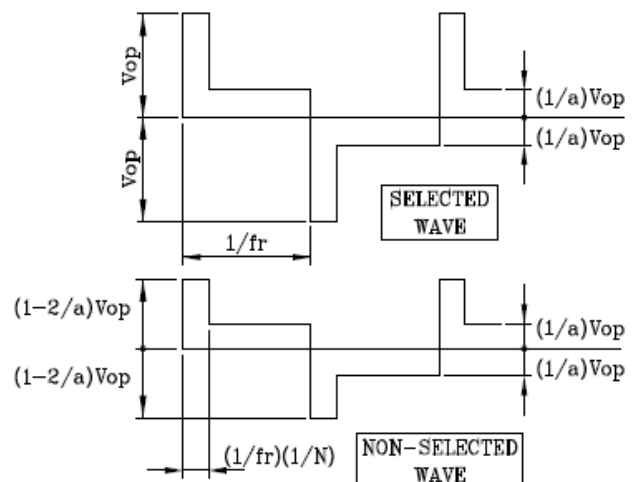
(NOTE 3)

Description of Measuring Equipment and Driving Waveforms



CONST.  
TEMP.  
CHAMBER

Multiplex Driving ( 1/N duty 1/a bias )





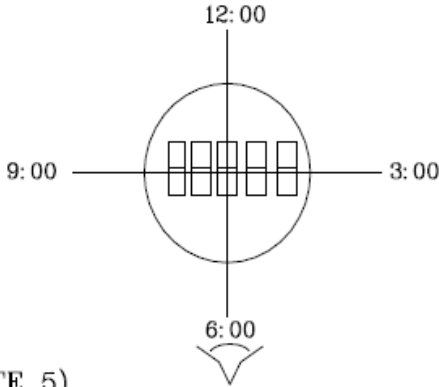
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No. 11, Lane 249, Sec. 2, Chung Shan Rd., Shulin City, Taipei Hsien, Taiwan, R.O.C.



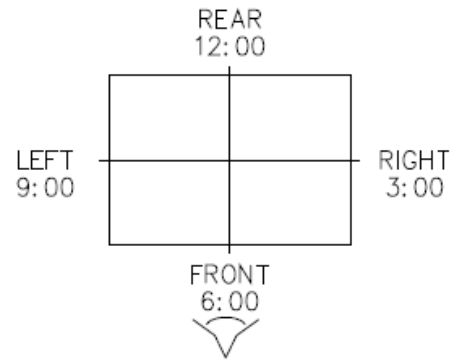
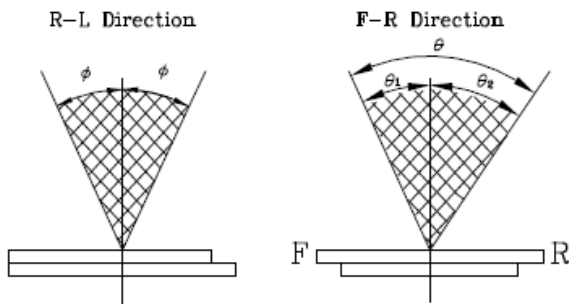
(NOTE 4)

Definition of Viewing Direction



(NOTE 5)

Definition of Viewing Angle



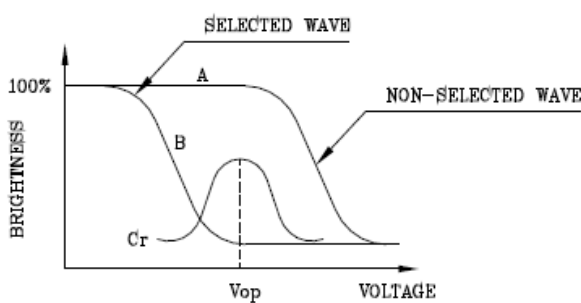
$$\theta = \theta_1 + \theta_2$$

\*Conditions

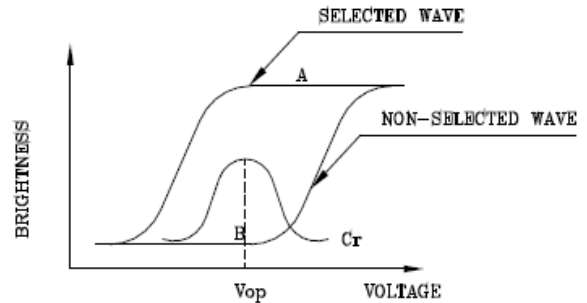
- Operating Voltage :  $V_{op}$
- Frame Frequency : 70Hz
- Applying Waveform : 1/N duty 1/a bias
- Contrast Ratio : larger than 2

(NOTE 6)

Definition of Contrast Ratio (Cr)



(positive type)



(negative type)

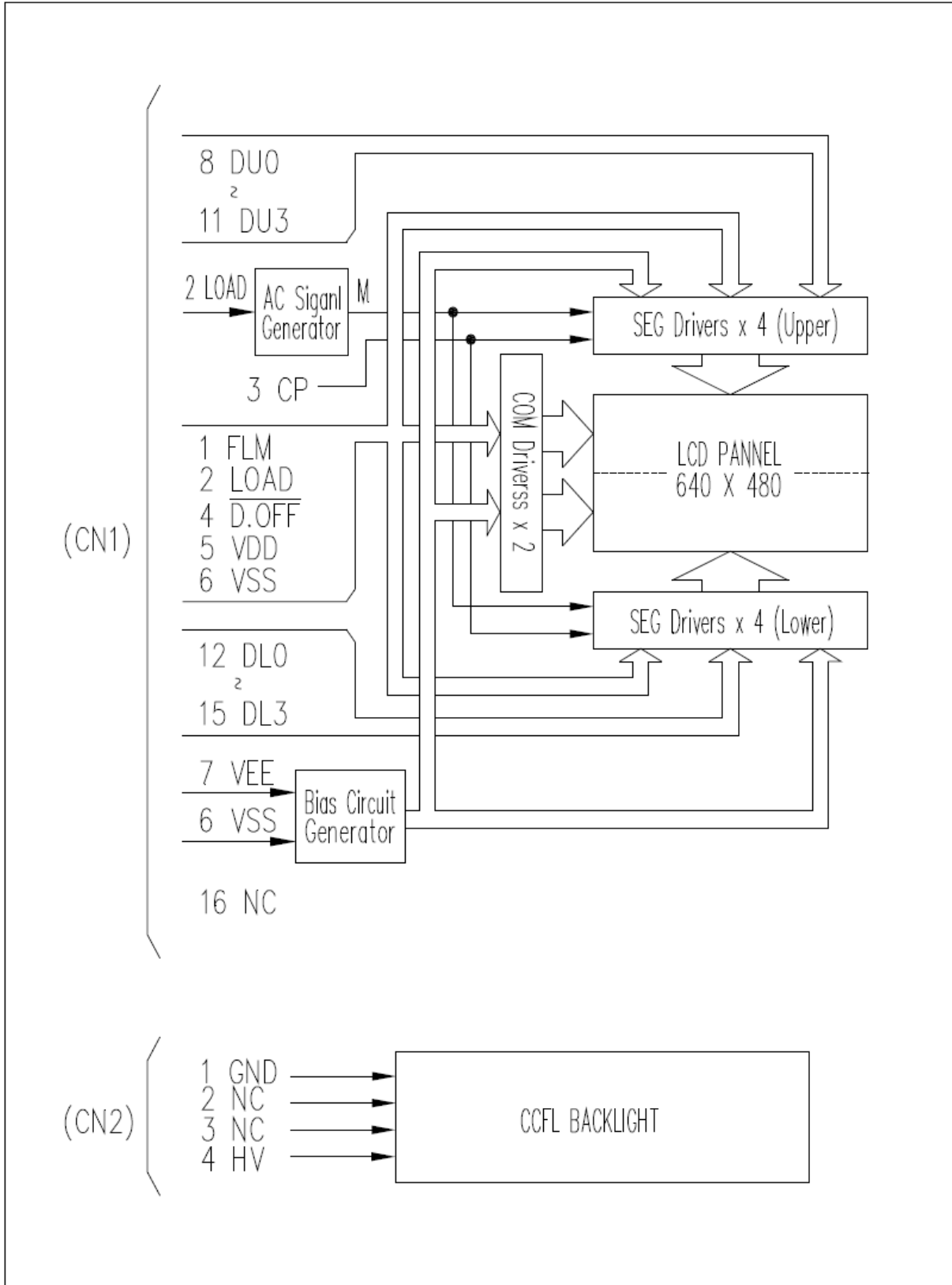
$$\text{Contrast Ratio : } Cr = A/B$$

\*Conditions

- Viewing Angle : 0
- Frame Frequency : 70Hz
- Applying Waveform : 1/N duty 1/a bias



5. BLOCK DIAGRAM





## 6.INTERNAL PIN CONNECTION

### LCD

Pin No.	Symbol	I/O	Function
1	FLM	I	Scan Start-Up Signal
2	LOAD	I	Data Latch Pulse
3	CP	I	Data Shift Pulse
4	/D.OFF	I	Display Off ("H"= On , "L"= Off)
5	VDD	I	Power Supply for Logic (+5V)
6	VSS	I	Signal Ground (GND)
7	VEE	I	Power Supply for LCD (-)
8	DU0	I	Display Data (Upper Half)
9	DU1	I	Display Data (Upper Half)
10	DU2	I	Display Data (Upper Half)
11	DU3	I	Display Data (Upper Half)
12	DL0	I	Display Data (Lower Half)
13	DL1	I	Display Data (Lower Half)
14	DL2	I	Display Data (Lower Half)
15	DL3	I	Display Data (Lower Half)

INTERFACE CONNECTOR :53261-1571 (MOLEX)

MATING CONNECTOR : MOLEX 51021-1500

### CCFL

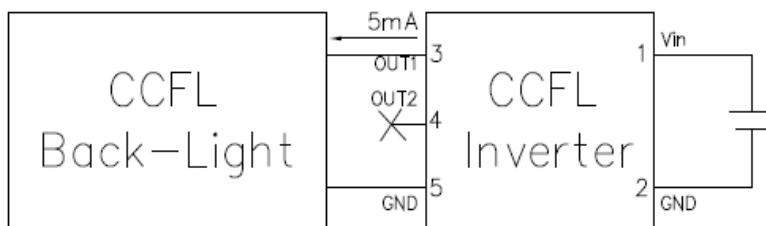
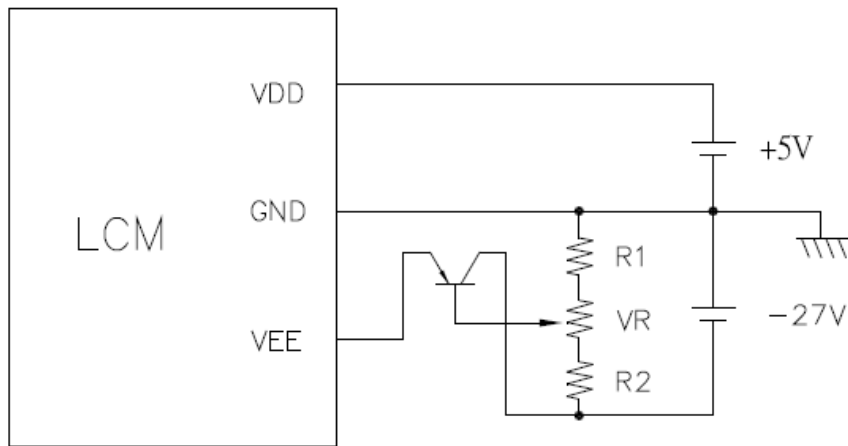
Pin No.	Symbol	Level	Function
1	GND	—	Power Supply for CCFL (Gnd)
2	NC	—	—
3	NC	—	—
4	HOT	—	Power Supply for CCFL (Hot)

USED CCFL CONNECTOR : M63M83-04 (MITSUMI)

CORRESPONDABLE LED CONNECTOR : M60-04-30-1 (MITSUMI)



## 7.POWER SUPPLY



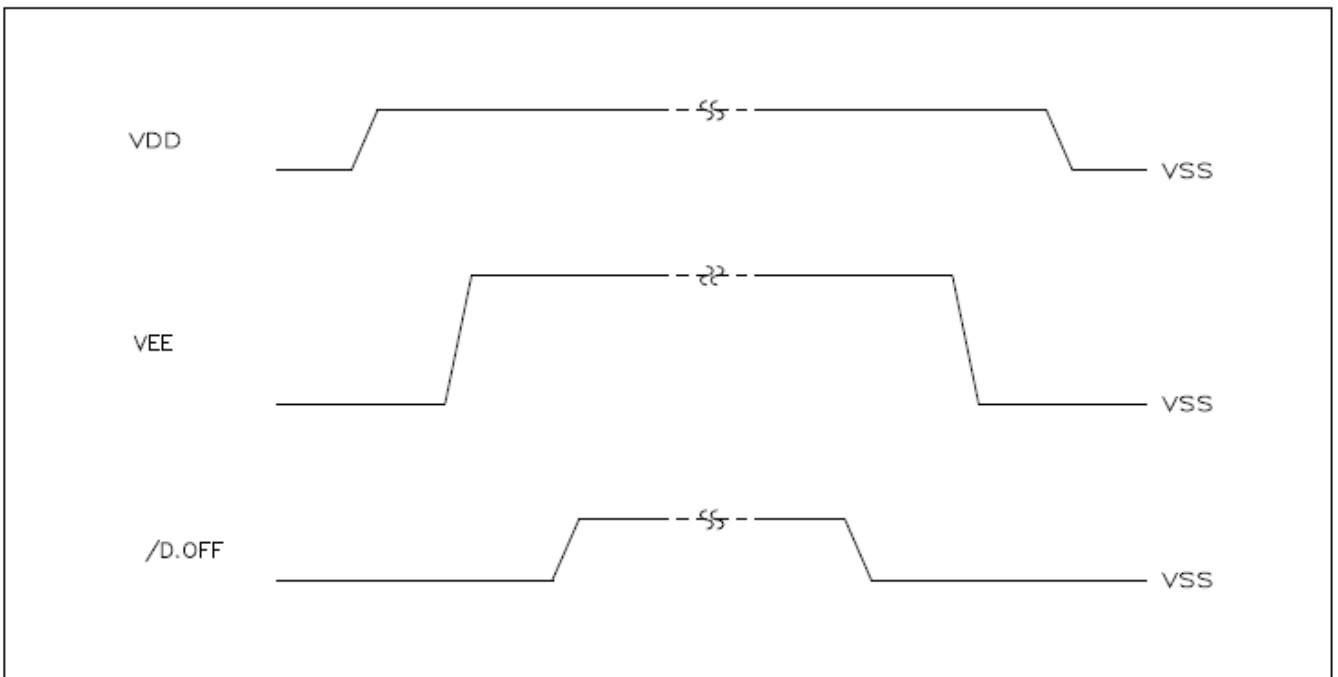


## 8.TIMING CHARACTERISTICS

### 8-1.INTERFACE TIMING

\*\* Please refer to the IC SPEC IST3025. ( Integrated Solutions Technology, Inc )

### 8-2.PRECAUTION WHEN CONNECTING OR DISCONNECTING THE POWER SUPPLY



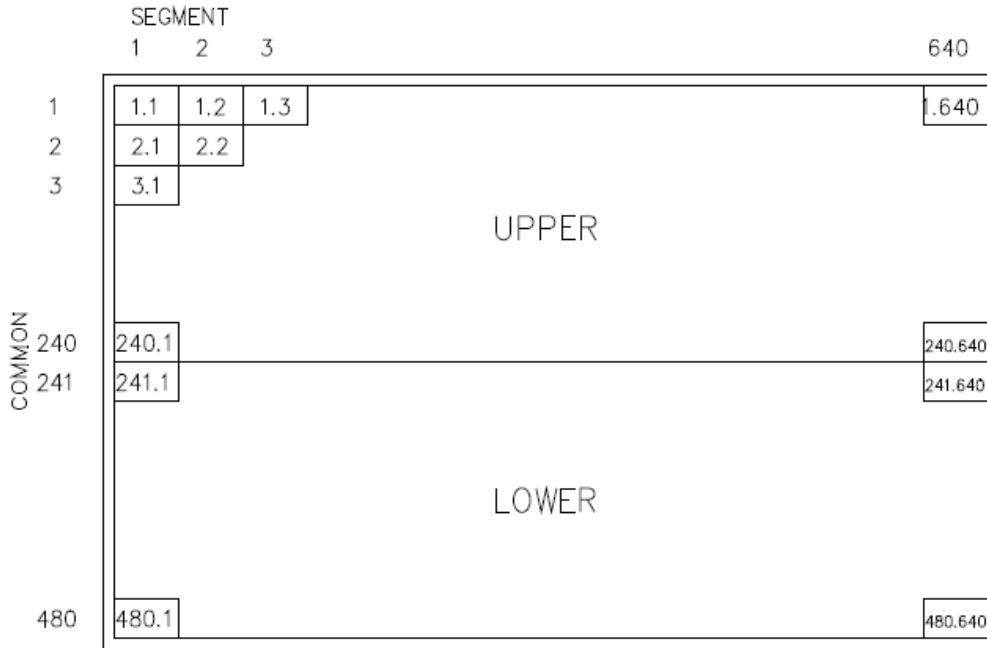
(NOTE)

When connecting the power supply, connect the LCD drive power after connecting the logic system power. Furthermore, when disconnecting the power, disconnect the logic system power after disconnecting the LCD drive power.

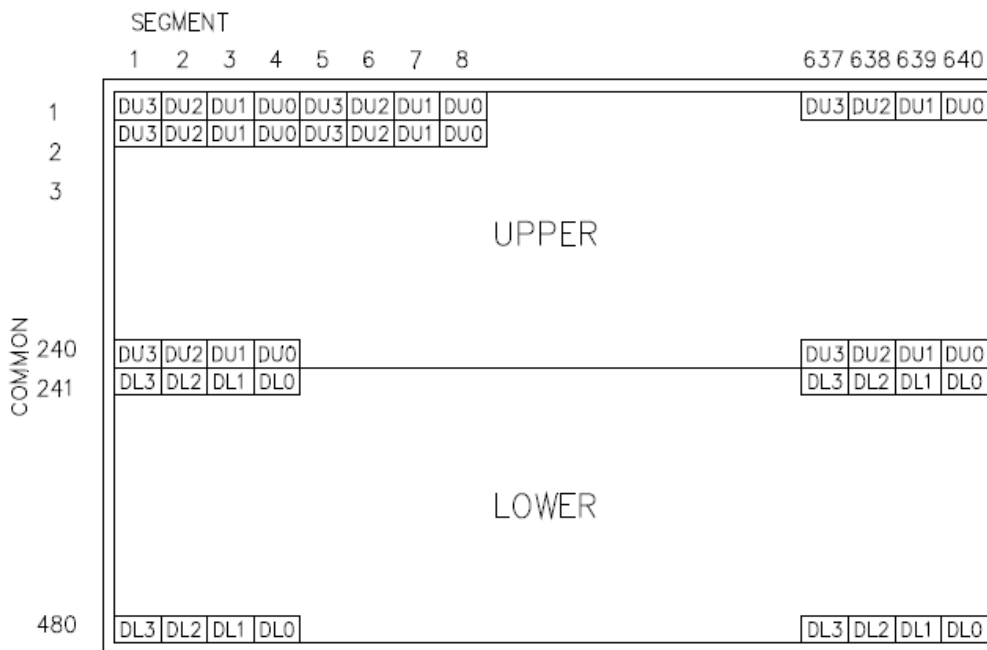
GI FAR



### 8-3.DISPLAY PATTERN



NOTE : 1.1 MEANS 1ST COMMON 1ST SEGMENT DOT





## 9.RELIABILITY TEST

### WIDE TEMPERATURE RELIABILITY TEST

NO.	ITEM	CONDITION		STANDARD	NOTE
1	High Temp. Storage	80 °C	120 Hrs	Appearance without defect	
2	Low Temp. Storage	-30 °C	120 Hrs	Appearance without defect	
3	High Temp. & High Humi. Storage	60 °C 90%RH	120 Hrs	Appearance without defect	
4	High Temp. Operating Display	70 °C	120 Hrs	Appearance without defect	
5	Low Temp. Operating Display	-20 °C	120 Hrs	Appearance without defect	
6	Thermal Shock	-20, 30min. → 70°C, 30min. ↑ (1cycle) ↓		Appearance without defect	10 cycles

\*There is no guarantee surround the boundary of polarizer within 0.5mm after reliability test.





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## Inspection Provision

### 1.Purpose

The inspection provision provides outgoing inspection provision and its expected quality level based on our outgoing inspection of LCD produces.

### 2.Applicable Scope

The inspection provision is applicable to the arrangement in regard to outgoing inspection and quality assurance after outgoing.

### 3.Technical Terms



## 4.Outgoing Inspection

### 4-1 Inspection Method

MIL-STD-105E Level II Regular inspection

### 4-2 Inspection Standard

	Item		AQL(%)	Remarks
Major Defect	Dots	Opens	0.4	faults which substantially lower the practicality and the initial purpose difficult to achieve.
		Shorts		
	Erroneous operation			
Solder appearance	Shorts	0.4	faults which substantially lower the practicality and the initial purpose difficult to achieve.	
	Loose			
Cracks	Display surface cracks	0.4	faults which substantially lower the practicality and the initial purpose difficult to achieve.	

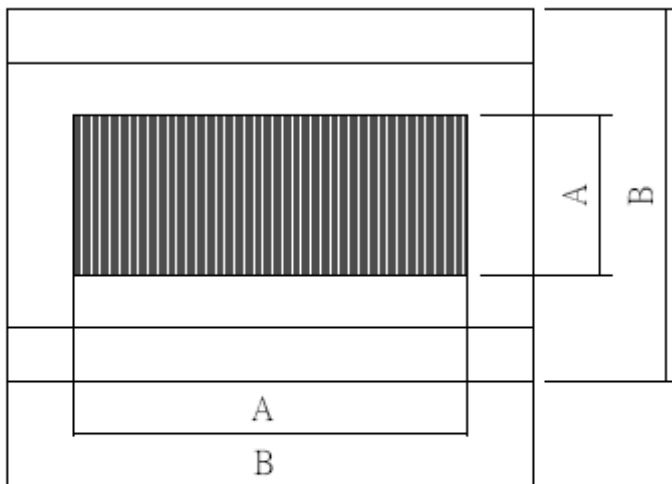


	Dimensions	External from Dimensions	0.4	
Minor Defect	Inside the glass	Black spots	0.65	faults which appear to pose almost no obstacle to the practicality, effective use, and operation.
	Polarizing plate	Scratches, foreign Matter, air bubbles, and peeling		
	Dots	Pinhole, deformation		
	Color tone	Color unevenness		
	Solder appearance	Cold solder Solder projections		

#### 4-3 Inspection Provisions

\*Viewing Area Definition

Fig. 1



A : Zone Viewing Area

B : Zone Glass Plate Outline

\*Inspection place to be 500 to 1000 lux illuminance uniformly without glaring.

The distance between luminous source(daylight fluorescent lamp and cool white fluorescent lamp) and sample to be 30 cm to 50 cm.



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\*Test and measurement are performed under the following conditions, unless otherwise specified.

Temperature            20 ± 15°C  
 Humidity                65 ± 20%R.H.  
 Pressure                 860~1060hPa(mmbar)

In case of doubtful judgment, it is performed under the following conditions.

Temperature            20 ± 2°C  
 Humidity                65 ± 5%R.H.  
 Pressure                 860~1060hPa(mmbar)

5.Specification for quality check

5-1 Electrical characteristics

NO.	Item	Criterion
1	Non operational	Fail
2	Miss operating	Fail
3	Missing dot	Fail
4	Contrast irregular	Fail
5	Response time	Within Specified value
6	Backlight turn on/off	Within Specified value

WORLDWIDE



5-2 External Appearance Defect

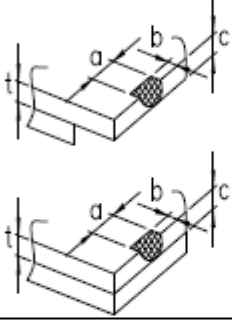
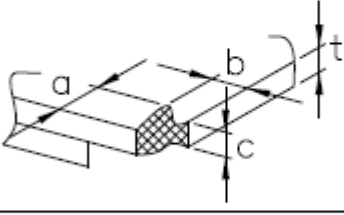
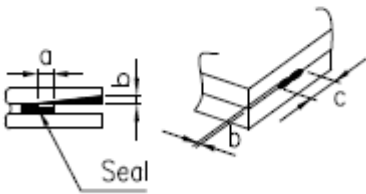
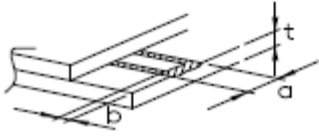
NO.	Item	Criterion																		
1	Black spots, foreign matter, and white spots (Including light leakage due to pinholes of polarizing plates, etc.)	<p>(1)-1-Spots</p> <table border="1" data-bbox="802 533 1465 904"> <thead> <tr> <th>Average Diameter (mm):D</th> <th>Number of pieces permitted</th> </tr> </thead> <tbody> <tr> <td><math>D \leq 0.1</math></td> <td>Ignore</td> </tr> <tr> <td><math>0.1 &lt; D \leq 0.2</math></td> <td>5</td> </tr> <tr> <td><math>0.2 &lt; D \leq 0.3</math></td> <td>2</td> </tr> <tr> <td><math>0.3 &lt; D</math></td> <td>0</td> </tr> </tbody> </table> <p>Number of total pieces is set to within 5 pieces.</p> <p>Note that when there are 2 pieces or more, they are not to be concentrated. Set as: Average diameter = (Long diameter + Short diameter)/2</p> <p>(1)-2-Blurred Spots(At lighting condition)</p> <table border="1" data-bbox="802 1328 1465 1592"> <thead> <tr> <th>Average Diameter (mm):D</th> <th>Number of pieces permitted</th> </tr> </thead> <tbody> <tr> <td><math>D \leq 0.3</math></td> <td>Ignore</td> </tr> <tr> <td><math>0.3 &lt; D \leq 0.75</math></td> <td>5</td> </tr> <tr> <td><math>0.75 &lt; D</math></td> <td>0</td> </tr> </tbody> </table> <p>Number of total pieces is set to within 5 pieces.</p> <p>Note that when there are 2 pieces or more, they are not to be concentrated. Set as: Average diameter = (Long diameter + Short diameter)/2</p>	Average Diameter (mm):D	Number of pieces permitted	$D \leq 0.1$	Ignore	$0.1 < D \leq 0.2$	5	$0.2 < D \leq 0.3$	2	$0.3 < D$	0	Average Diameter (mm):D	Number of pieces permitted	$D \leq 0.3$	Ignore	$0.3 < D \leq 0.75$	5	$0.75 < D$	0
Average Diameter (mm):D	Number of pieces permitted																			
$D \leq 0.1$	Ignore																			
$0.1 < D \leq 0.2$	5																			
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$D \leq 0.3$	Ignore																			
$0.3 < D \leq 0.75$	5																			
$0.75 < D$	0																			



1	Line	<p>(1)-1-Lines</p> <table border="1" data-bbox="788 394 1453 712"> <thead> <tr> <th>Width(mm):W</th> <th>Length(mm):L</th> <th>Number of pieces permitted</th> </tr> </thead> <tbody> <tr> <td><math>W \leq 0.03</math></td> <td>Ignore</td> <td>Ignore</td> </tr> <tr> <td><math>0.03 &lt; W \leq 0.08</math></td> <td><math>L \leq 4</math></td> <td>2</td> </tr> <tr> <td><math>0.08 &lt; W \leq 0.1</math></td> <td><math>L \leq 1</math></td> <td>1</td> </tr> </tbody> </table> <p>Object exceeding 0.1mm follow the standards of the spots form. Note that when there are 2 pieces or more, they are not to be concentrated.</p> <p>(1)-2-Blurred Lines(At lighting condition)</p> <table border="1" data-bbox="788 1028 1453 1346"> <thead> <tr> <th>Width(mm):W</th> <th>Length(mm):L</th> <th>Number of pieces permitted</th> </tr> </thead> <tbody> <tr> <td><math>W \leq 0.03</math></td> <td>Ignore</td> <td>Ignore</td> </tr> <tr> <td><math>0.03 &lt; W \leq 0.08</math></td> <td><math>L \leq 3</math></td> <td>6</td> </tr> <tr> <td><math>0.08 &lt; W</math></td> <td><math>3 &lt; L</math></td> <td>None</td> </tr> </tbody> </table> <p>Object exceeding 0.1mm follow the standards of the spots form. Note that when there are 2 pieces or more, they are not to be concentrated.</p>	Width(mm):W	Length(mm):L	Number of pieces permitted	$W \leq 0.03$	Ignore	Ignore	$0.03 < W \leq 0.08$	$L \leq 4$	2	$0.08 < W \leq 0.1$	$L \leq 1$	1	Width(mm):W	Length(mm):L	Number of pieces permitted	$W \leq 0.03$	Ignore	Ignore	$0.03 < W \leq 0.08$	$L \leq 3$	6	$0.08 < W$	$3 < L$	None
Width(mm):W	Length(mm):L	Number of pieces permitted																								
$W \leq 0.03$	Ignore	Ignore																								
$0.03 < W \leq 0.08$	$L \leq 4$	2																								
$0.08 < W \leq 0.1$	$L \leq 1$	1																								
Width(mm):W	Length(mm):L	Number of pieces permitted																								
$W \leq 0.03$	Ignore	Ignore																								
$0.03 < W \leq 0.08$	$L \leq 3$	6																								
$0.08 < W$	$3 < L$	None																								
2	Scratches(Glass, reflection plates, and polarizing plates)	In accordance with black spots. (At non lighting condition)																								
3	Color irregular	Not remarkable color irregular.																								



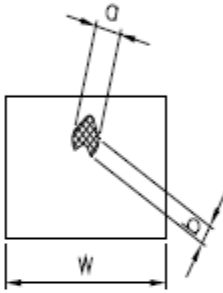
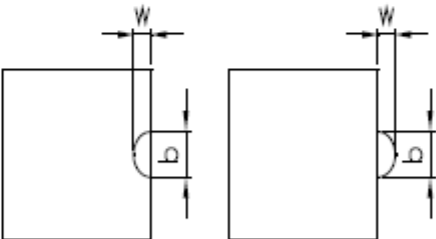
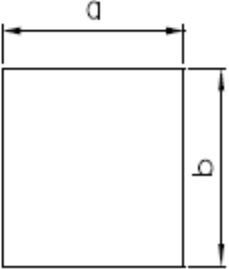


4	Air bubbles polarizing plates, and reflection plates	<table border="1" data-bbox="788 331 1251 595"> <tr> <th>Average Diameter (mm):D</th> <th>Number of pieces permitted</th> </tr> <tr> <td><math>D \leq 0.3</math></td> <td>Ignore</td> </tr> <tr> <td><math>0.3 &lt; D</math></td> <td>0</td> </tr> </table> <p data-bbox="1251 360 1458 573">Average diameter = (Long diameter + Short diameter)/2</p> <p data-bbox="788 613 1458 689">Note that when there are 4 pieces or more, they are not to be concentrated.</p>		Average Diameter (mm):D	Number of pieces permitted	$D \leq 0.3$	Ignore	$0.3 < D$	0
Average Diameter (mm):D	Number of pieces permitted								
$D \leq 0.3$	Ignore								
$0.3 < D$	0								
5	Cracks	<p>(1)General crack</p> 	$a \leq 5$ $b \leq 2$ $c \leq t$ Where, a and b are ignored when less than or equal to 0.5. The numbers of pieces are set at up to 5 pieces.						
		<p>(2)Corner crack</p> 	$a \leq 2.5$ $b \leq 2.5$ $c \leq t$ $a+b \leq 4$						
		<p>(3)Seal portion crack</p> 	$a \leq \text{The seal width} \times 1/3$ $b \leq t \times 2/3$ $c \leq 5$ The numbers of pieces are set at up to 5 pieces.						
		<p>(4)ITO Pin crack</p> 	$a \leq 5$ $b \leq 1/3 \text{ pin length}$ $c \leq t$						
		(5)Progressive cracks	All taken to be unacceptable.						



6	Outer dimensions	Should be within the tolerance.
7	Soldering	Should be no defective soldering such as shorting, loose terminal cold solder, peeling of printed circuit board pattern, improper mounting position, etc.

5-3 Dot Appearance Defect

NO.	Item	Criteria
1	Pinhole	 <p>Dot display a and b are each <math>\leq 0.2\text{mm}</math>. The overall total is taken be with in 10 units. Note that they are not to be concentrated.</p>
2	Missing	 <p>Dot display a and b are each <math>\leq 0.2\text{mm}</math>. The overall total is taken to be with in 10 units.</p>
3	Thick and thin display	 <p>Taken to be within <math>\pm 1.5\%</math> of display character width(a) and height(b).</p>



# 晶發科技有限公司 GI FAR TECHNOLOGY CO.,LTD

No. 11, Lane 249, Sec. 2, Chung Shan Rd., Shulin City, Taipei Hsien, Taiwan, R.O.C.



## NOTICE:

### • SAFETY

1. If the LCD panel breaks, be careful not to get the liquid crystal to touch your skin.
2. If the liquid crystal touches your skin or clothes, please wash it off immediately by using soap and water.

### • HANDLING

1. Avoid static electricity which can damage the CMOS LSI.
2. Do not remove the panel or frame from the module.
3. The polarizing plate of the display is very fragile. So, please handle it very carefully.
4. Do not wipe the polarizing plate with a dry cloth, as it may easily scratch the surface of plate.
5. Do not use ketonics solvent & Aromatic solvent. Use a soft cloth soaked with a cleaning naphtha solvent.

### • STORAGE

1. Store the panel or module in a dark place where the temperature is  $25\pm 5^{\circ}\text{C}$  and the humidity is below 65% RH.
2. Do not place the module near organics solvents or corrosive gases.
3. Do not crush, shake, or jolt the module.

### • TERMS OF WARRANTY

1. Acceptance inspection period

The period is within one month after the arrival of contracted commodity at the buyer's factory site.

2. Applicable warranty period

The period is within twelve months since the date of shipping out under normal using , and the storage environment should be kept on  $25\pm 5^{\circ}\text{C}$  and 50~60%RH.

SECRET





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## 10.OUTLINE DRAWING

