Doc. Number :

Tentative Specification
Preliminary Specification
Approval Specification

MODEL NO.: G070Y3
SUFFIX: T01

Customer:

APPROVED BY   **SIGNATURE**

Name / Title
Note

Please return 1 copy for your confirmation with your signature and comments.

2011-07-25 20:28:32	APPL	yuhsiang.chang (/514-10922)	Director	Accept

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REVISION HISTORY

Version	Date	Section	Description
Ver 2.0	Feb. 15, '08	All	G070Y3-T01 Approval specification was first issued.
Ver 2.1	Aug. 26, '08	3.3	Modify Backlight Unit：LED life time min.10000 hrs → min. 15000 hrs
		7.2	Modify Optical Specification note (6) measurement setup figure.
		10.1	Add precaution of "Image sticking" in section 10.1 Assembly and handling precautions (11) Do not keep same pattern in a long period of time. It may cause image sticking on LCD.
Ver 2.2	Mar. 10, '09	1.2	Delete "LED light bar replaceable" statement
Ver 2.3	Apr. 20, '10	3.3	Modify LED life time L_L Min.15000 hrs → 30000 hrs
Ver. 2.4	Oct. 6, '10	3.3	Add cautionary statement to Note(4) about life time vs. operating conditions.
Ver. 2.5	Jul. 13, '11	9.1	Update module label definition.

1. GENERAL DESCRIPTION

1.1 OVERVIEW

G070Y3-T01 is a 6.95inch TFT Liquid Crystal Display module with a LED backlight unit and a-50-pin-and-1ch-TTL interface. This module supports 800 (R.G.B)x 480 WVGA mode which main application is the automotive Monitor and industrial field.

1.2 FEATURES

- Wide viewing angle.

- Fast response time

- WVGA (800 x 480 pixels) resolution

- Wide operating temperature range (-30℃ to 85℃)

- Reversible - scan function

- Digital interface

1.3 APPLICATION

- Automotive Monitor

- Industry Application

1.4 GENERAL SPECIFICATI0NS

Item	Specification	Unit	Note
Diagonal Size	6.95 Inches	mm	
Active Area	156 x 82.8	mm	(1)
Bezel Opening Area	159.3 x 86	mm	
Driver Element	a-si TFT active matrix	-	-
Pixel Number	800 x R.G.B. x 480	pixel	-
Pixel Pitch	0.1950 x 0.1725	mm	-
Pixel Arrangement	RGB vertical stripe	-	(2)
Display Colors	262.144 (6 bits)	color	-
Display Mode	Normal White	-	-
Surface Treatment	Hard Coating (3H), AG (Haze 25 %)	-	-
Weight	180(Typ)	g	

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

Note (2)
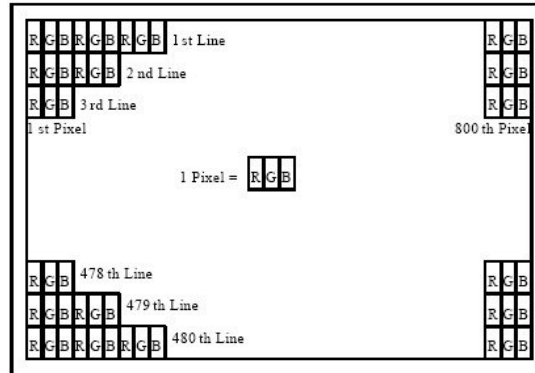
1.5 MECHANICAL SPECIFICATIONS

Item		Min.	Typ.	Max.	Unit	Note
Module Size	Horizontal(H)	167.7	168	168.3	mm	(1)
	Vertical(V)	93.7	94	94.3	mm	
	Depth(D)	6.05	6.35	6.65	mm	

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT

No.	Test Item	Test Condition	Note
1	High Temperature Storage	90℃, 240 hours	
2	Low Temperature Storage	-40℃, 240 hours	
3	Thermal Shock Storage	{(-40℃, 0.5 hour) (85℃, 0.5 hour)}, 100 cycles	(1) (2)
4	High Temperature Operating	85℃, 240 hours	
5	Low Temperature Operating	-30℃, 240 hours	
6	High Temperature & High Humidity Operating	60℃, 90% RH, 240hours	
7	Shock (Non-Operating)	100G, 6ms, +/-XYZ 3 times	(3)(5)
8	Vibration (Non-Operating)	3G, 10 to 200 Hz, sine wave	(4)(5)

Note (1) There should be no condensation on the surface of panel during test.

Note (2) The temperature of panel display surface area should be 90℃ Max.

Note (3) 6ms, half sine wave, 3 times for +/-X, +/-Y, +/-Z.

Note (4) 3 directions: X, Y and Z axes, 60min per each direction; 6 cycles; sweep time = 5 minutes; peak acceleration = 3G; frequency = 10 to 200 Hz; sine wave.

Note (5) At testing Vibration and Shock, the fixture in holding the module has to be hard and rigid enough so that the module would not be twisted or bent by the fixture.

Note (6) In the standard conditions, there is no function failure issue occurred. All the cosmetic specification is judged before the reliability test.

Relative Humidity (%RH)

Temperature (ºC)
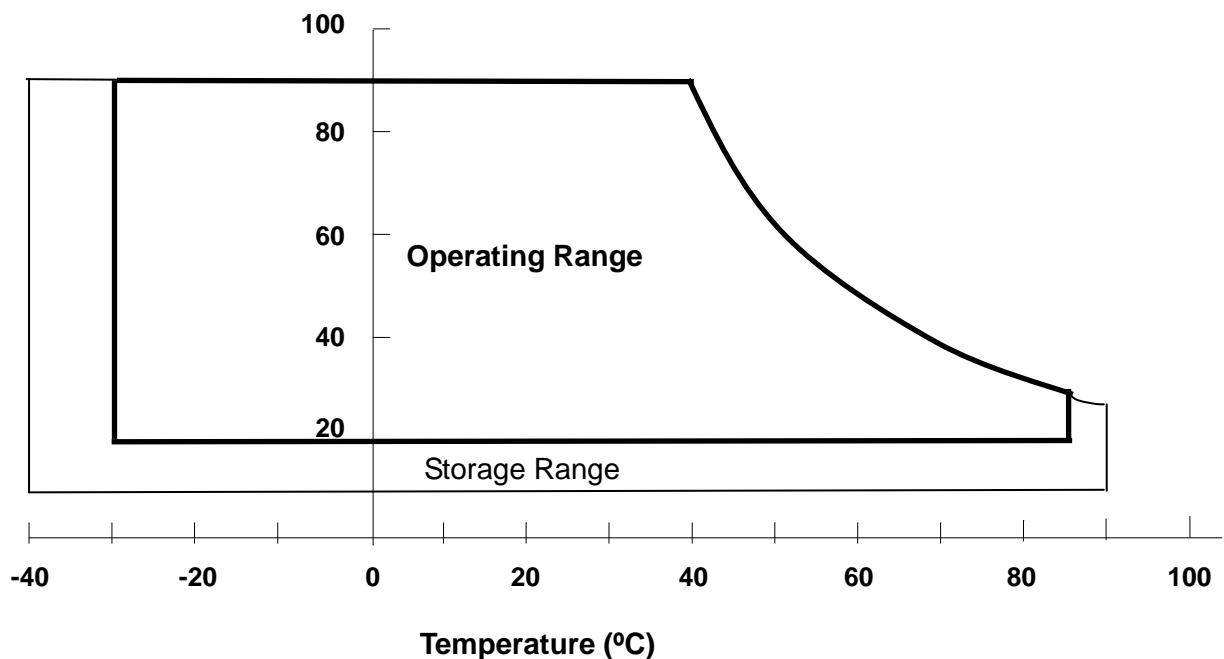
2.2 ELECTRICAL ABSOLUTE RATINGS

2.2.1 TFT LCD MODULE
Ta = 25 ± 2 °C

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Power Supply Voltage	VCC	-0.3	-	5	V	-
	AVDD	-0.3	-	13.5	V	-
	VGH	-0.3	-	42	V	
	VGL	VGH-42	-	0.3	V	-
Digital Input Voltage	V_I	-0.5	-	Vcc+0.5	V	(1)
Gamma Supply Voltage	V1~V5	0.4AVDD	-	AVDD+0.3	V	-
	V6~V10	-0.3	-	0.6AVDD	V	-

Note (1) V_I means all input logic signal.

2.2.2 BACKLIGHT UNIT
Ta = 25 ± 2 °C

Item	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
LED Light Bar Power Supply Voltage	V_L	-45	-	31.5	V	(1)
LED Light Bar Power Supply Current	I_L	-	-	90	mA	(1)

Note (1)   Permanent damage to the device may occur if maximum or minimum values are exceeded.

Function operation should be restricted to the conditions described under Normal Operating

Conditions.

3. ELECTRICAL CHARACTERISTICS

3.1 RECOMMENDED OPERATION CONDITION (GND = AVSS = 0V)   Ta = 25 ± 2 ºC

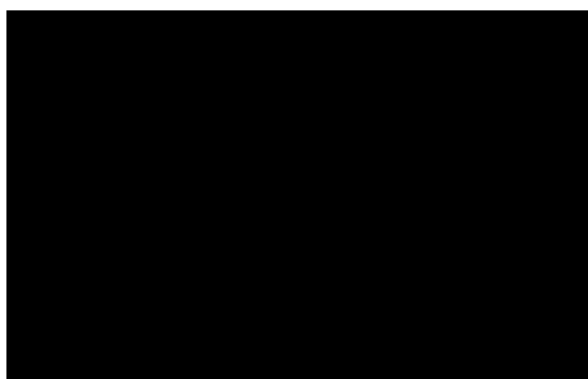| Parameter		Symbol	Value			Unit	Note
			Min.	Typ.	Max.		
Power Supply Voltage		VCC	3.0	3.3	3.6	V	
		AVDD	10.29	10.5	10.71	V	
		VGH	17.5	18	18.5	V	
		VGL	-7.5	-7	-6.5	V	
Input Signal Voltage		V1~V5	0.4AVDD	-	AVDD+0.3	V	(1)
		V6~V10	-0.3	-	0.6AVDD	V	(1)
		VCOM	-	4.035	-	V	
Digital Input Voltage	High Level	V_{IH}	0.7VCC	-	VCC	V	
	Low Level	V_{IL}	0	-	0.3VCC	V	

Note (1) Please refer to 11.1 application notes.

3.2 CURRENT CONSUMPTION (GND = AVSS =0V)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Supply Current for Source/Gate Driver (Digital)	I_{CC}	-	2.86	3.5	mA	(1)
Supply Current for Source Driver (Analog)	I_{DD}	-	21	25	mA	(1)
Supply Current for Gate Driver (High Level)	I_{GG}	-	0.13	0.2	mA	(1)
Supply Current for Gate Driver (Low Level)	I_{EE}	-	0.13	0.2	mA	(1)

Note (1) The specified power supply current is under the conditions at VCC = 3.3 V, Ta = 25 ± 2 ºC, f_v = 60 Hz, whereas a power dissipation check pattern below is displayed.

Black Pattern

Active Area

3.3 BACKLIGHT UNIT

Ta = 25 ± 2 ºC

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
LED Quantity			27		PCs	(1)
LED Light Bar Power Supply Voltage	V_L	26.1	27.9	29.7	V	(1),(2) (Duty 100%)
LED Light Bar Power Supply Current	I_L	-	60	-	mA	
Power Consumption	P_L	-	1.674	-	W	(3), (Duty 100%)
LED Life Time	L_L	30000	-	-	Hrs	(4)

Note (1) LED light bar configuration is shown as below.

V_L, I_L

LED
Light Bar
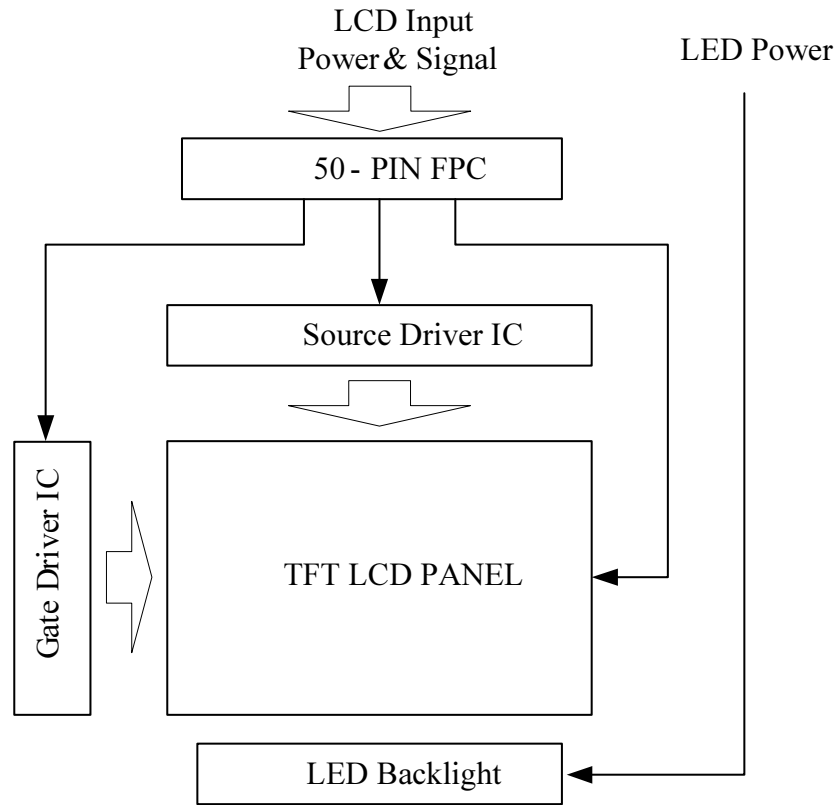Parallel:3
Series：9

Light Bar Feedback
Channels
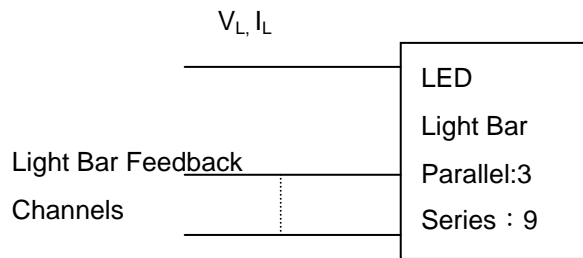
Note (2) For better LED light bar driving quality, it is recommended to utilize the adaptive boost converter with current balancing function to drive LED light-bar.
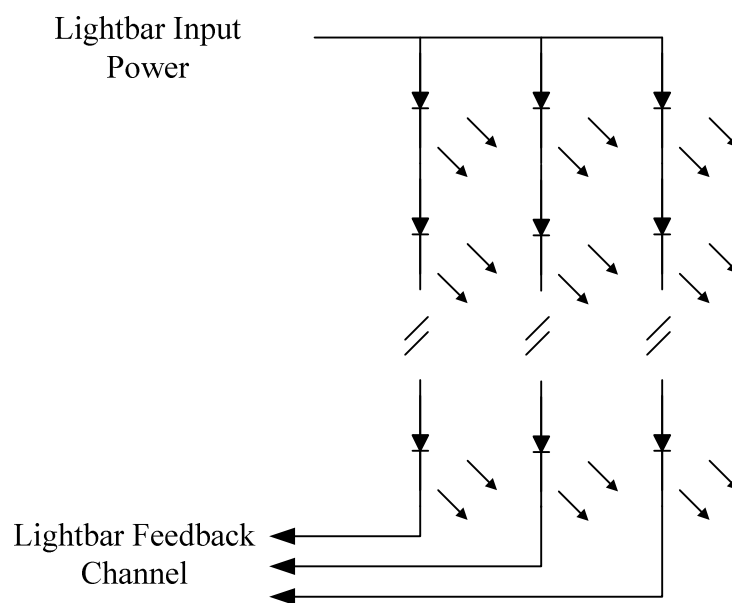
Note (3) $P_L = I_L \times V_L$

Note (4) The lifetime of LED is defined as the time when it continues to operate under the conditions at Ta = 25 ±2 ºC and I_L = 20 mA(Per EA) until the brightness becomes ≦ 50% of its original value. Operating LED at high temperature condition will reduce life time and lead to color shift.

4. BLOCK DIAGRAM
4.1 TFT LCD MODULE

LCD Input
Power & Signal

LED Power

```
50 - PIN FPC
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Source Driver IC

Gate Driver IC

TFT LCD PANEL

LED Backlight

4.2 BACKLIGHT UNIT

Lightbar Input
Power

Lightbar Feedback
Channel

5. INPUT TERMINAL PIN ASSIGNMENT

5.1 FPC I/O PIN ASSIGNMENT

Pin	Name	I/O	Description
1	VCOM	I	VCOM Voltage
2	DIO1	I/O	Start Pulse Signal Input/Output (Horizontal)
3	CLK	I	Source Driver Shift Clock Input
4	SHL	I	Source Driver Shift Direction Control Input
5	D00	I	Red Data(R0)
6	D01	I	Red Data(R1)
7	D02	I	Red Data(R2)
8	D03	I	Red Data(R3)
9	D04	I	Red Data(R4)
10	D05	I	Red Data(R5)
11	D10	I	Green Data(G0)
12	D11	I	Green Data(G1)
13	D12	I	Green Data(G2)
14	D13	I	Green Data(G3)
15	D14	I	Green Data(G4)
16	D15	I	Green Data(G5)
17	V1	I	Gamma Voltage 1
18	V2	I	Gamma Voltage 2
19	V3	I	Gamma Voltage 3
20	V4	I	Gamma Voltage 4
21	V5	I	Gamma Voltage 5
22	V6	I	Gamma Voltage 6
23	V7	I	Gamma Voltage 7
24	V8	I	Gamma Voltage 8
25	V9	I	Gamma Voltage 9
26	V10	I	Gamma Voltage 10
27	D20	I	Blue Data(B0)
28	D21	I	Blue Data(B1)
29	D22	I	Blue Data(B2)
30	D23	I	Blue Data(B3)
31	D24	I	Blue Data(B4)
32	D25	I	Blue Data(B5)
33	LD	I	Latching and Data Switching Input
34	REV	I	Data Inverting Input
35	POL	I	Polarity Inverting Input
36	VCC	I	Digital Supply Voltage
37	GND	I	Ground
38	AVDD	I	Source Driver Analog Supply Voltage
39	DIO2	I/O	Start Pulse Signal Input/Output (Horizontal)
40	GND	I	Ground

41	XAO	I	Output All-on Control
42	OE	I	Gate Driver Output Enable Control
43	UD_RL	I	Up/Down Scan Selection
44	CKV	I	Gate Driver Shift Clock input
45	STVU	I/O	Start Pulse Signal Input/Output (Vertical)
46	STVD	I/O	Start Pulse Signal Input/Output (Vertical)
47	VCC	I	Digital Supply Voltage
48	VGL	I	TFT Low Voltage
49	VGH	I	TFT High Voltage
50	GND	I	Ground

Note (1) User's connector Part No: 089H50-000000-G2-C (Starconn) or equivalent

5.2 BACKLIGHT FPC PIN ASSIGNMENT

Pin	Name	I/O	Description
1	V_L	I	LED Light-bar Input Power
2	CH1	O	Light-bar Feedback Channel
3	CH2	O	Light-bar Feedback Channel
4	CH3	O	Light-bar Feedback Channel

Note (1) User's connector Part No: EZ24004G213 (UNE) or equivalent

5.3 SCANNING DIRECTION

The following figures are seen from a front view and the arrow shows the direction of scan.
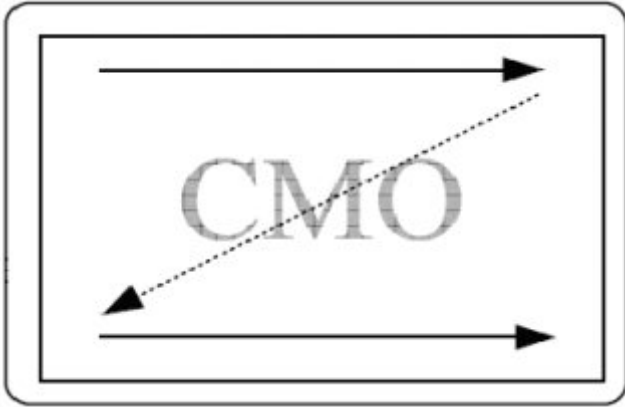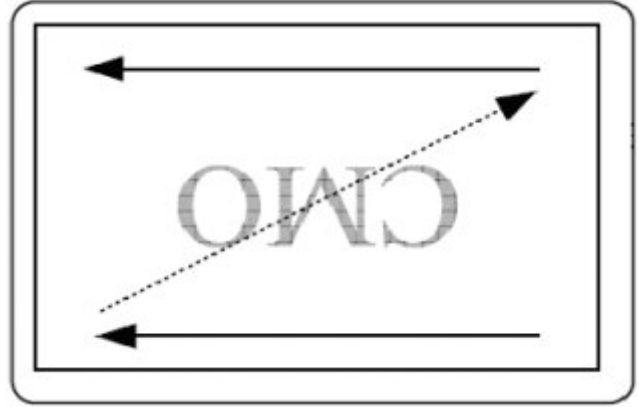

Figure1.Normal scan   Figure 2. Reverse scan

Note : (1) Normal Scan

SHL	U/D	DIO1	DIO2	STVU	STVD	Shift
1	0	Input	Output	Input	Output	Up to down Left to right

(2) Reverse Scan

SHL	U/D	DIO1	DIO2	STVU	STVD	Shift
0	1	Output	Input	Output	Input	Down to Up Right to left

5.4 COLOR DATA INPUT ASSIGNMENT

The brightness of each primary color (red, green and blue) is based on the 6-bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides the assignment of color versus data input. (0: Low Level Voltage, 1: High Level Voltage)

Color		Data Signal																	
		Red						Green						Blue					
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0
Basic Colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gray Scale Of Red	Red(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(1)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(2)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red(61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red(62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Gray Scale Of Green	Green(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(1)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Green(2)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Green(61)	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0
	Green(62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	Green(63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
Gray Scale Of Blue	Blue(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Blue(61)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
	Blue(62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue(63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

6. INTERFACE TIMING

6.1 AC ELECTRICAL CHARACTERISTICS (VCC = 3.3V, AVDD = 8.4V, AVSS = GND = 0V, Ta = 25℃)

Parameter	Symbol	Value Min.	Value Typ.	Value Max.	Unit	Condition
CLK frequency	Fclk	-	40	45	MHz	-
CLK Pulse width	Tcw	40%	-	60%	T_{CLK}	-
Data setup time	Tsu	4	-	-	ns	D00~D25, REV and DIO1/2 to CLK
Data hold time	Thd	2	-	-	ns	D00~D25, REV and DIO1/2 to CLK
Propagation delay of DIO2/1	Tphl	6	10	15	ns	CL = 25pF (Output)
Time that the last data to LD	Tld	1	-	-	T_{CLK}	-
Pulse width of LD	Twld	2	-	-	T_{CLK}	-
Time that LD to DIO1/2	Tlds	5	-	-	T_{CLK}	-
POL setup time	Tpsu	6	-	-	ns	POL to LD
POL hold time	Tphd	6	-	-	ns	POL to LD
Output stable time	Tst	-	-	12	us	10% or 90% target voltage, CL = 60pF, R = 2KΩ
CKV period	t_{CPV}	5	-	-	us	-
CKV pulse width	t_{CPVH}, t_{CPVL}	2.5	-	-	us	50% duty cycle
OE pulse width	t_{WOE}	1	-	-	us	-
XAO pulse width	t_{WXAO}	10	-	-	us	-
Data setup time	t_{su}	700	-	-	ns	-
Data hold time	t_{hd}	700	-	-	ns	-
Output delay time (1)	t_{Pd1}	-	-	1000	ns	CL = 300pF
Output delay time (2)	t_{Pd2}	-	-	800	ns	CL = 30pF
Output delay time (3)	t_{Pd3}	-	-	800	ns	CL = 300pF
Output delay time (4)	t_{Pd4}	-	-	10000	ns	CL = 300pF

■Timing Diagram 1
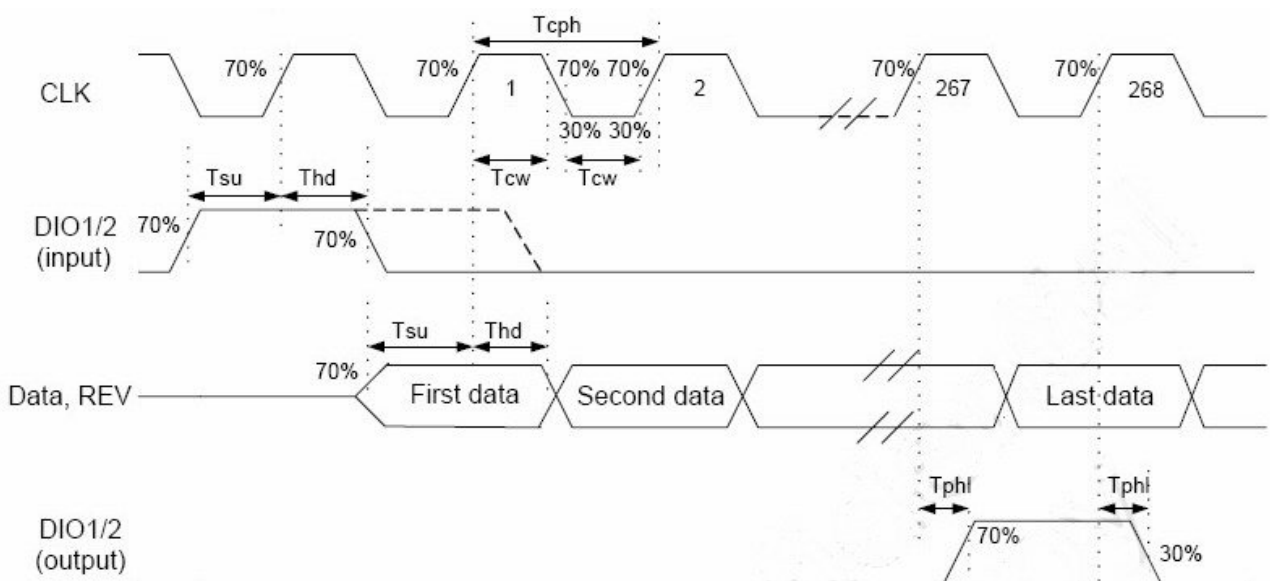
■Timing Diagram 2
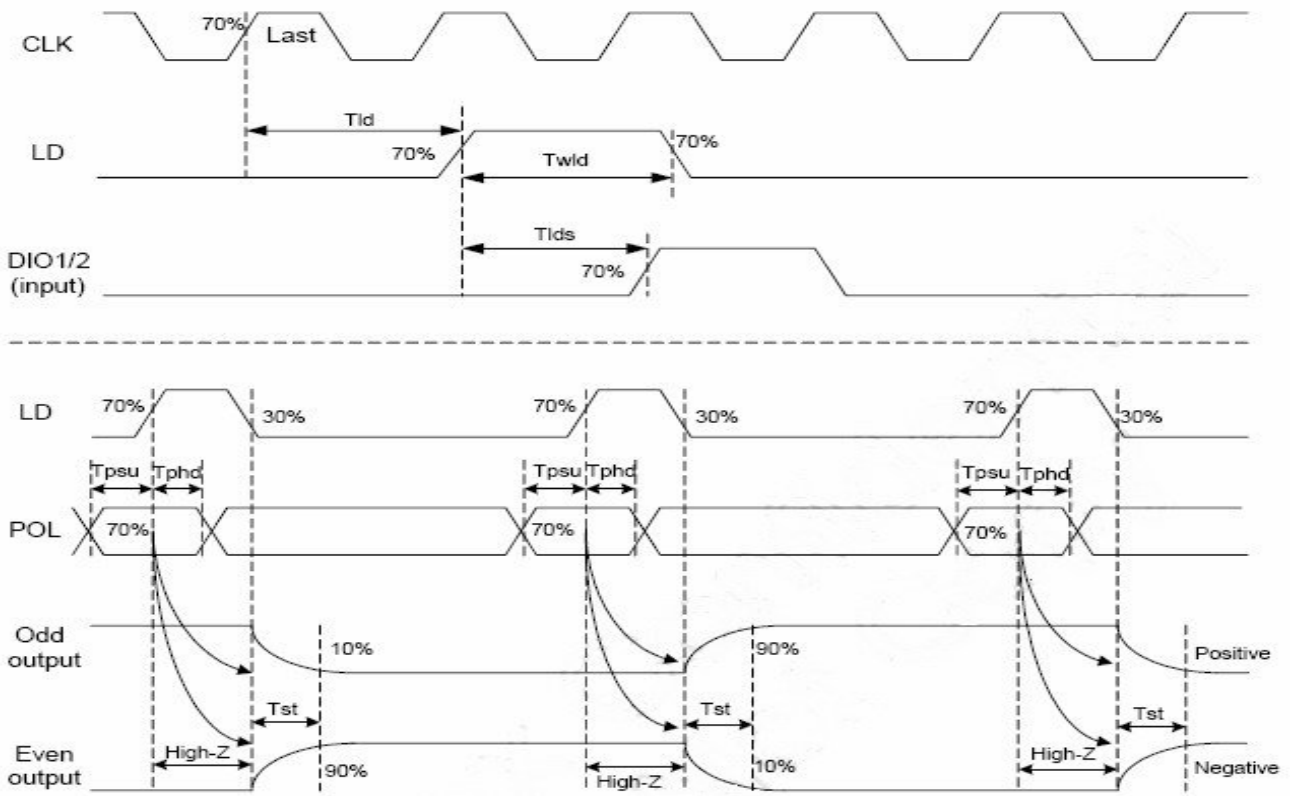
■Timing Diagram 3
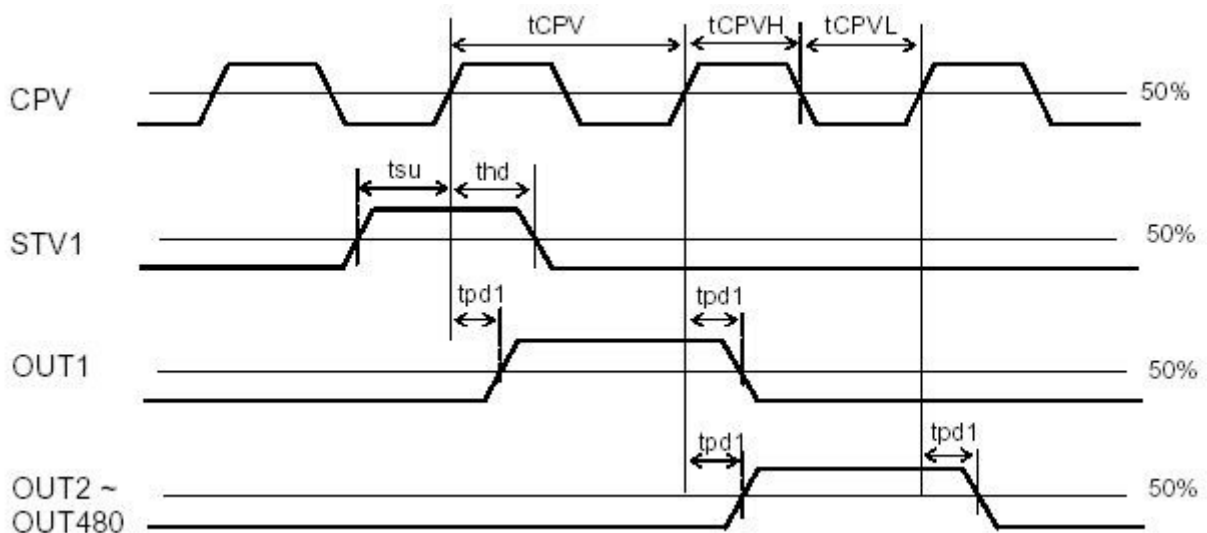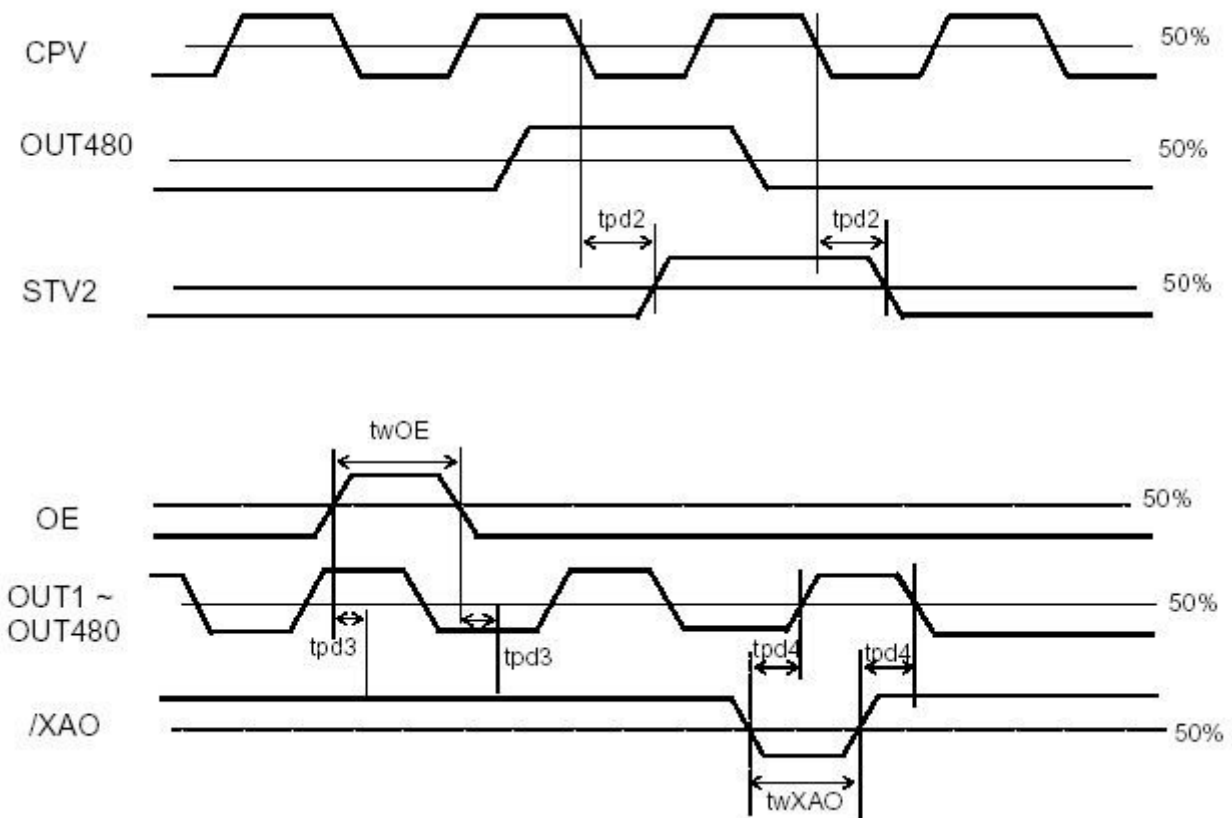
6.2 POWER ON/OFF SEQUENCE

To prevent the device from damage due to latch up, the power ON/OFF sequence shown below must be followed.

Power on sequence: Vcc➜VGL➜VGH

Power off sequence: VGH➜VGL➜Vcc

7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	^{o}C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	V_{CC}	3.3	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Current	I_f	20	mA

Note (1) I_f means the forward current of each channel

7.2 OPTICAL SPECIFICATIONS

The relative measurement methods of optical characteristics are shown in 7.2. The following items should

be measured under the test conditions described in 7.1 and stable environment shown in Note (6).

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Color Chromaticity	Red	Rx	θ_x=0°, θ_Y=0° Viewing Normal Angle	Typ – 0.03	0.619	Typ + 0.03		(1), (6)
		Ry			0.364			
	Green	Gx			0.342			
		Gy			0.595			
	Blue	Bx			0.147			
		By			0.085			
	White	Wx			0.313			
		Wy			0.329			
Center Luminance of White		L_C		500	600	-	cd/m^2	(4), (6)
Contrast Ratio		CR		500	650	-	-	(2), (6)
Response Time		T_R		-	5	10	Ms	(3)
		T_F		-	11	16	Ms	
White Variation		δW		-	1.25	1.4	-	(5), (6)
Viewing Angle	Horizontal	θ_x+	CR $\geqq$ 10	65	70	-	Deg.	(1), (6)
		θ_x-		65	70	-		
	Vertical	θ_Y+		55	60	-		
		θ_Y-		55	60	-		

Note (1) Definition of Viewing Angle (θx, θy):
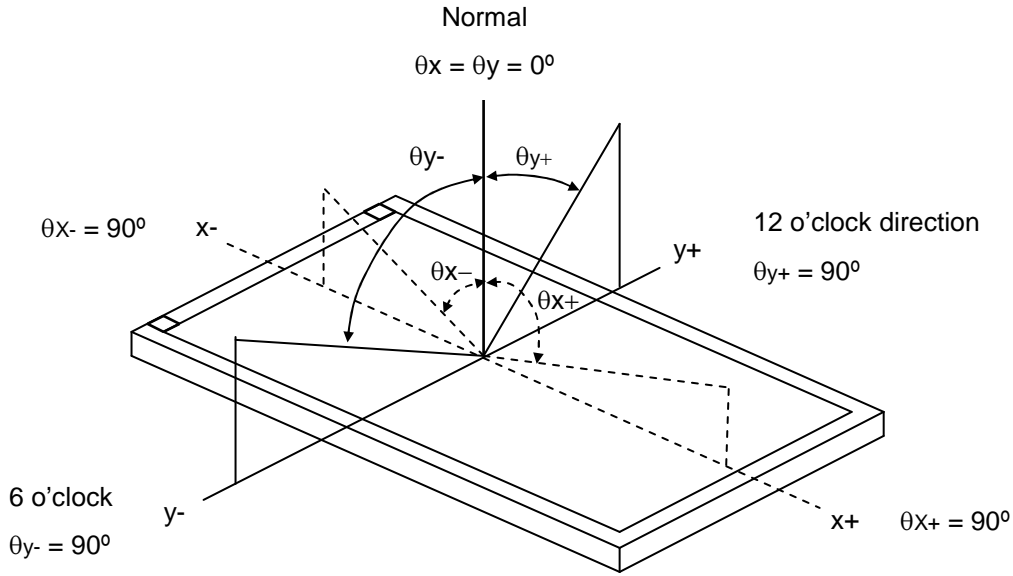
Note (2) Definition of Contrast Ratio (CR):

    The contrast ratio can be calculated by the following expression.
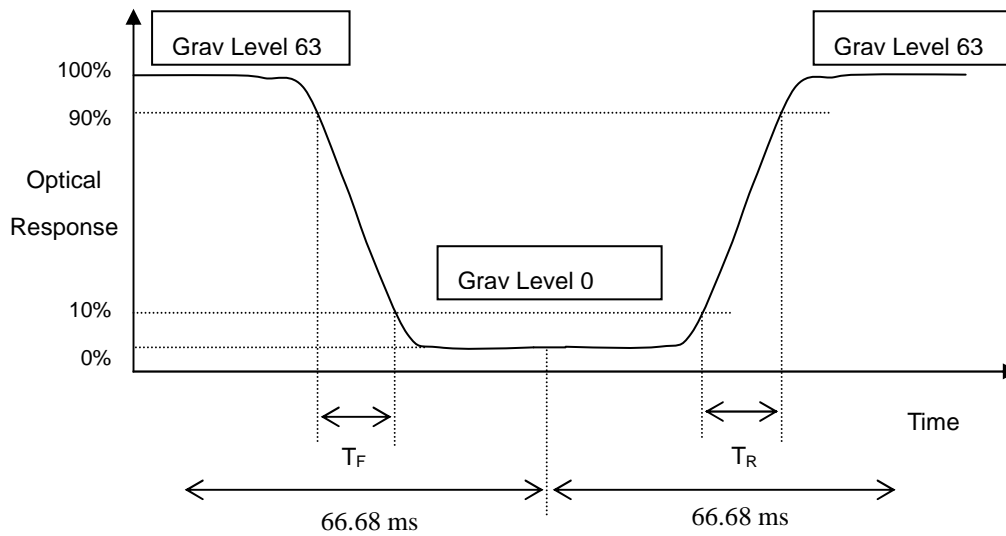
      Contrast Ratio (CR) = L63 / L0

      L63: Luminance of gray level 63

      L 0: 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 (3) Definition of Response Time (T_R, T_F) and measurement method:

Note (4) Definition of Luminance of White (L_C):

Measure the luminance of gray level 63 at center point

$L_C = L(5)$

L (x) is corresponding to the luminance of the point X at Figure in Note (5).

Note (5) Definition of White Variation (δW):

Measure the luminance of gray level 63 at 5 points

$\delta W = $ Maximum [L (1), L (2), L (3), L (4), L (5)] / Minimum [L (1), L (2), L (3), L (4), L (5)]

Horizontal Line

Active Area
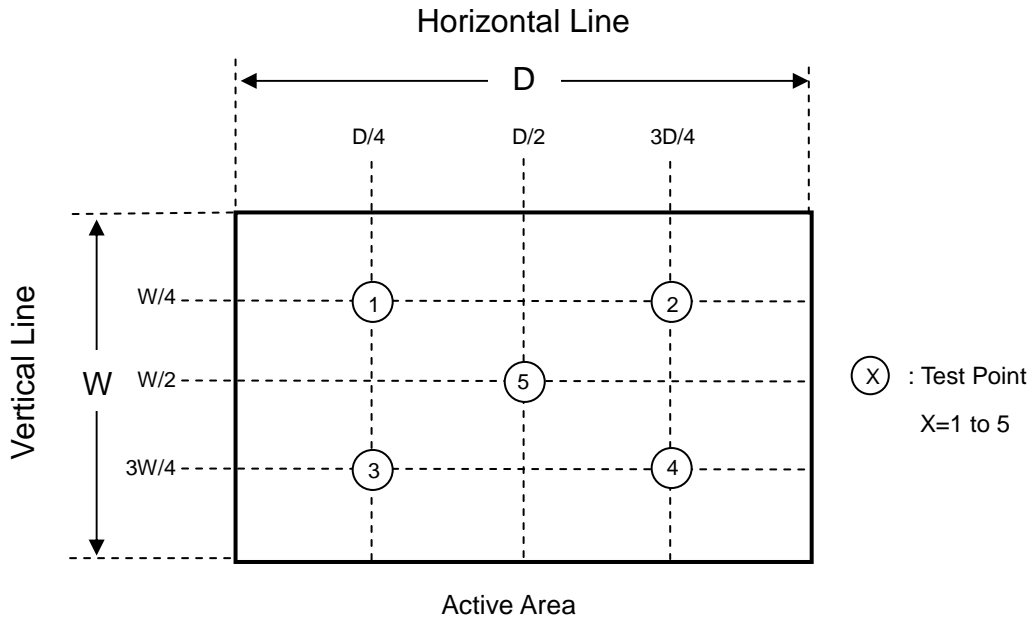
Note (6) Measurement Setup:

The LCD module should be stabilized at 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.
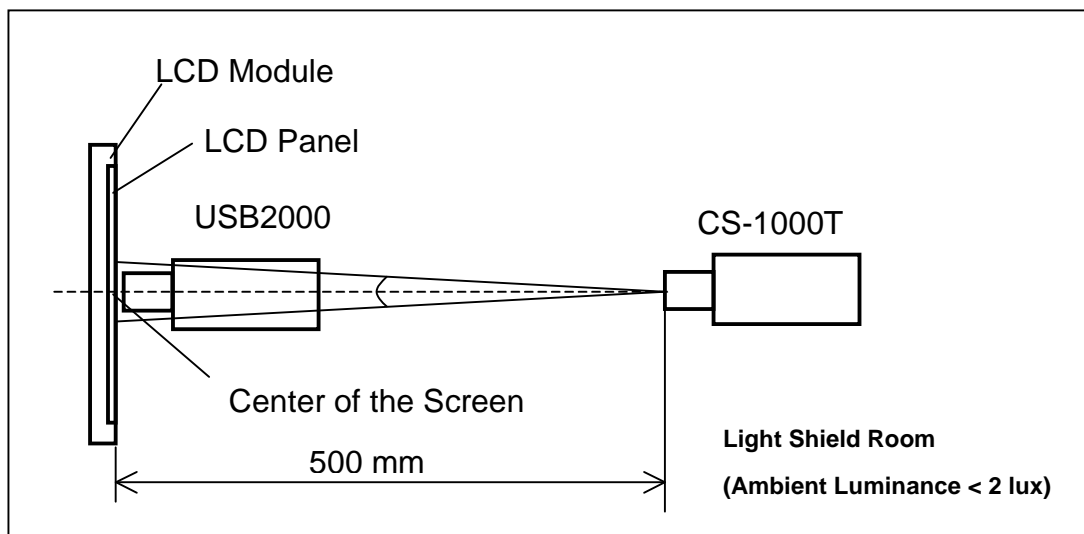
8. PACKAGING
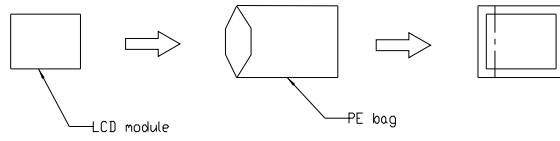
(1) 40 LCM Modules/1 box
(2) Carton dimensions : 435(L)x350(W)x265(H)mm
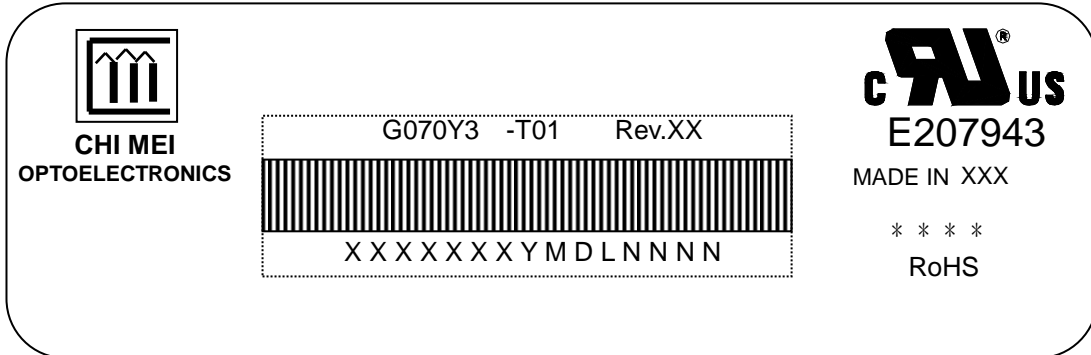(3) Weight : approximately 15.5 kg(40 modules per Carton).
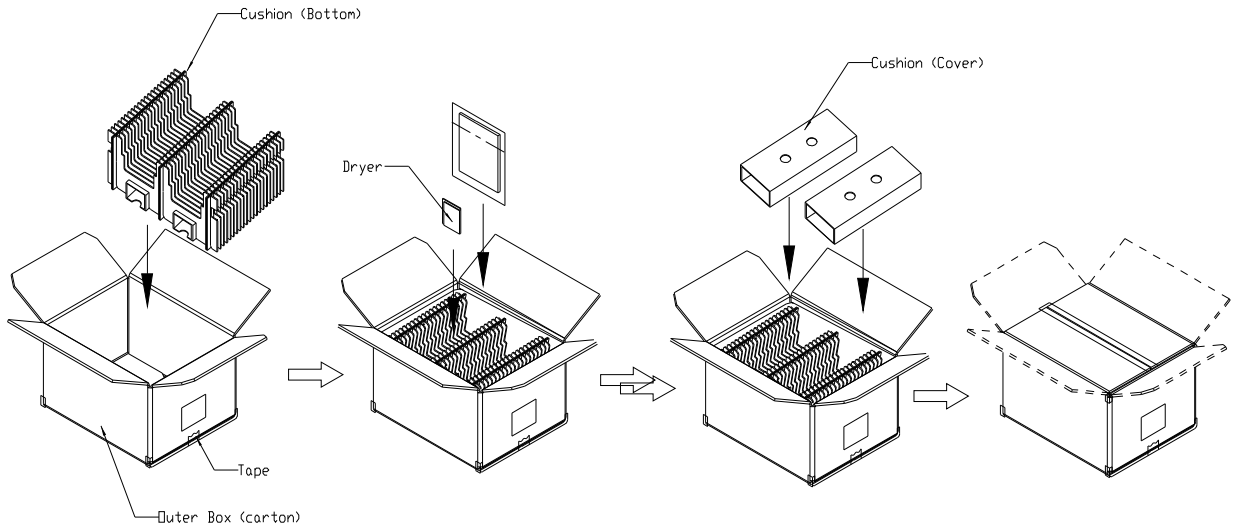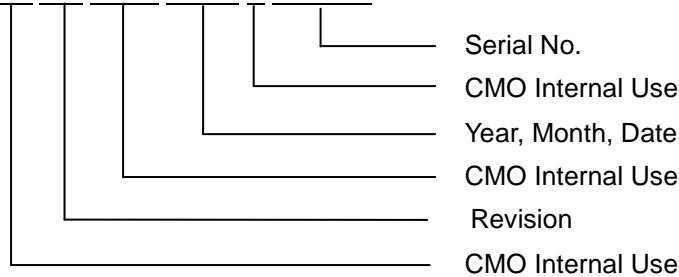
Sea and Land Transportation
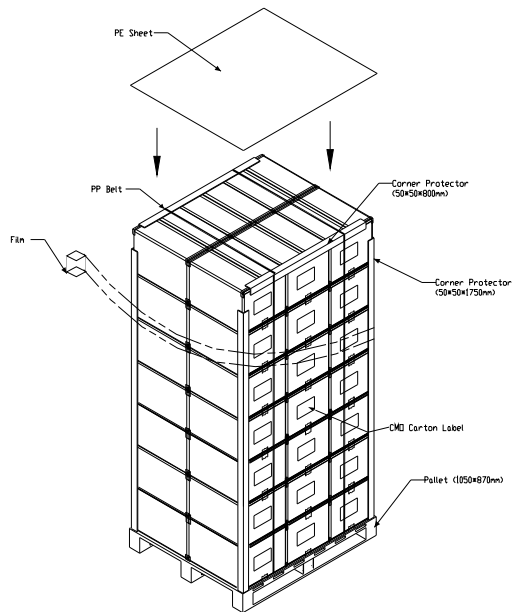
Air Transportation
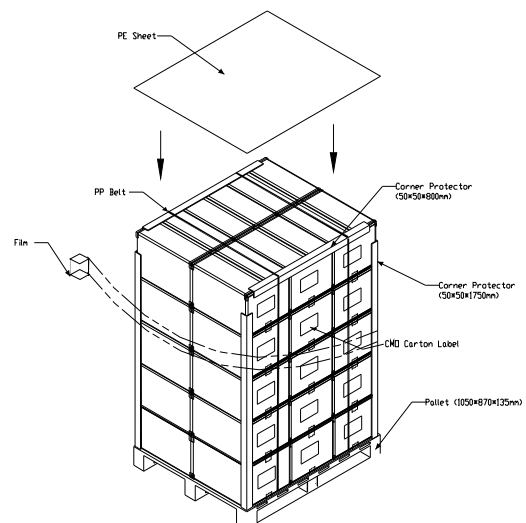
9. DEFINITION OF LABELS

9.1 CMO MODULE LABEL

The barcode nameplate is pasted on each module as illustration, and its definitions are as following explanation.

(a) Model Name: G070Y3 - T01

(b) Revision: Rev. XX, for example: A1, …, C1, C2 …etc.

(c) ＊ ＊ ＊ ＊ : Factory ID

(d) Serial ID: X X X X X X X Y M D X N N N N

- Serial No.
- CMO Internal Use
- Year, Month, Date
- CMO Internal Use
- Revision
- CMO Internal Use

Serial ID includes the information as below:

(a) Manufactured Date: Year: 1~9, for 2011~2019

Month: 1~9, A~C, for Jan. ~ Dec.

Day: 1~9, A~Y, for 1st to 31st, exclude I , O and U

(b) Revision Code: cover all the change

Serial No.: Manufacturing sequence of product

10. PRECAUTIONS

10.1 ASSEMBLY AND HANDLING PRECAUTIONS

(1) Do not apply rough force such as bending or twisting to the module during assembly.

(2) To assemble or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.

(3) It's not permitted to have pressure or impulse on the module because the LCD panel and Backlight will be damaged.

(4) Always follow the correct power sequence when LCD module is connecting and operating. This can prevent damage to the CMOS LSI chips during latch-up.

(5) Do not pull the I/F connector in or out while the module is operating.

(6) Do not disassemble the module.

(7) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.

(8) It is dangerous that moisture come into or contacted the LCD module, because moisture may damage LCD module when it is operating.

(9) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.

(10) When ambient temperature is lower than 10°C may reduce the display quality. For example, the response time will become slowly, and the starting voltage of CCFL will be higher than room temperature.

(11) Do not keep same pattern in a long period of time. It may cause image sticking on LCD
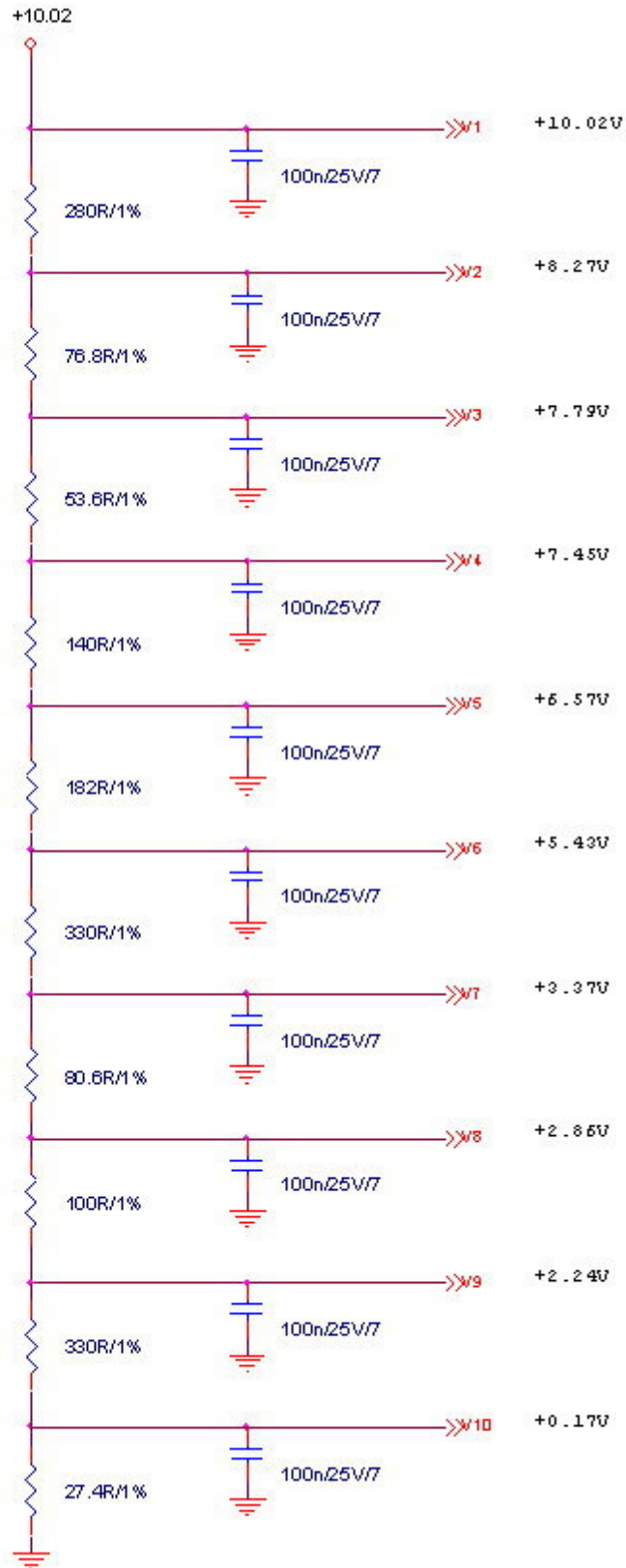

10.2 SAFETY PRECAUTIONS

(1) Do not disassemble the module or insert anything into the Backlight unit to prevent electrical shock.

(2) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.

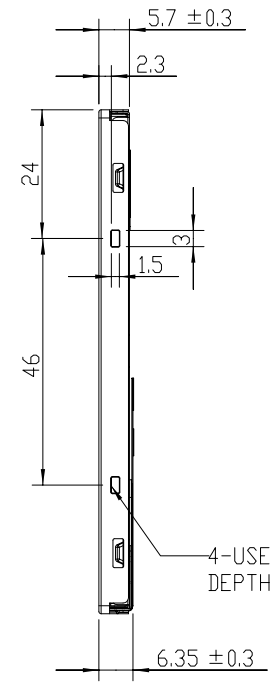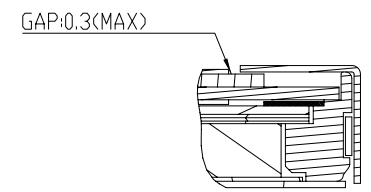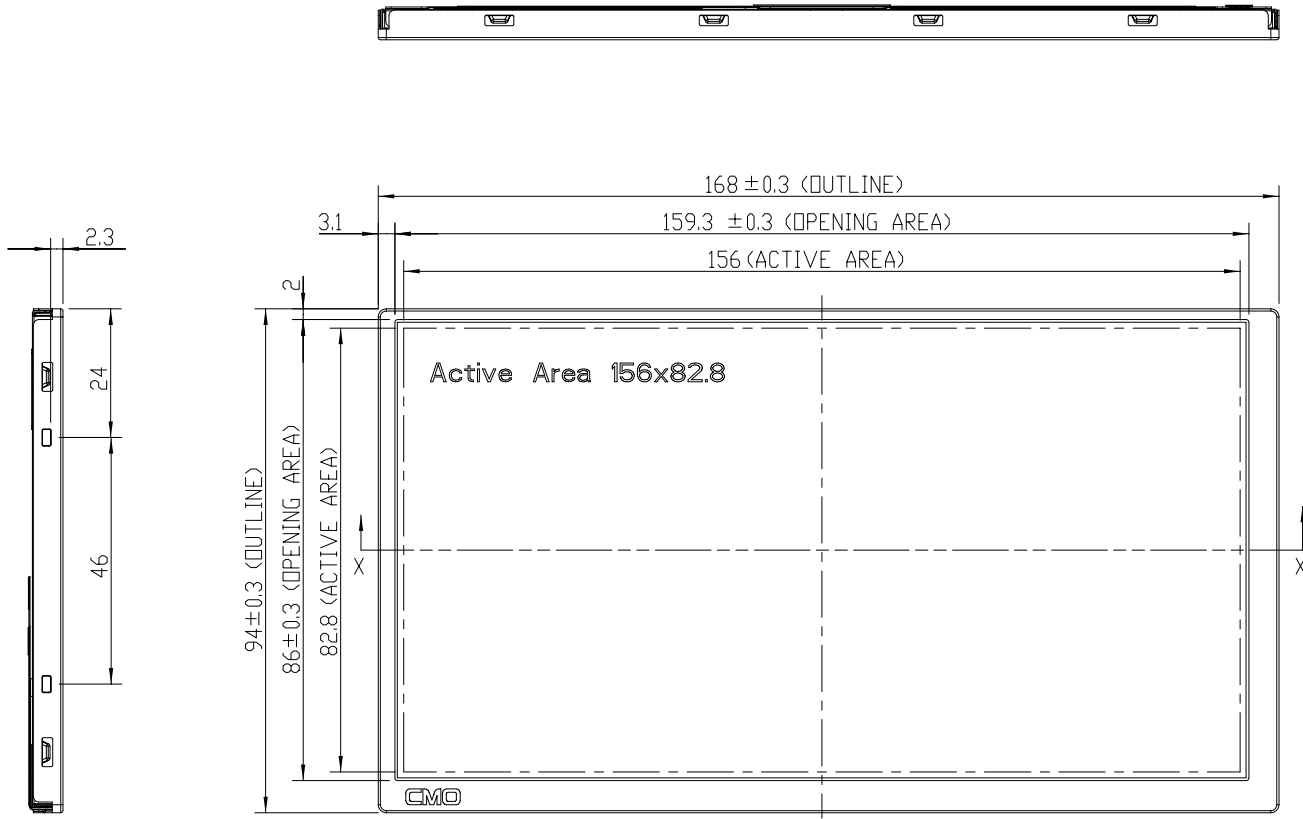(3) After the module's end of life, it is not harmful in case of normal operation and storage.

11. APPLICATION NOTES

11.1 GAMMA CIRCUIT

AVDD	10.5
V1	10.02
V2	8.27
V3	7.79
V4	7.45
V5	6.57
V6	5.43
V7	3.37
V8	2.86
V9	2.24
V10	0.17
VCOM	4.035

GAP:0.3(MAX)

SECTION X-X
SCALE 4:1

168 ±0.3 (OUTLINE)

159.3 ±0.3 (OPENING AREA)

156(ACTIVE AREA)

3.1

2.3

5.7 ±0.3

2.3

Active Area 156x82.8

94±0.3 (OUTLINE)

86±0.3 (OPENING AREA)

82.8(ACTIVE AREA)

2

24

46

24

46

3

1.5

CMO

X

X

4-USER HOLE
DEPTH 0.8mm (MAX.)

6.35 ±0.3

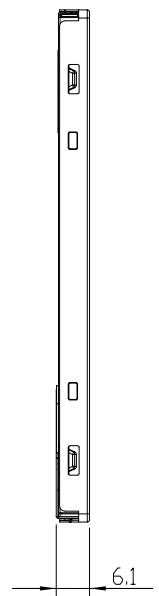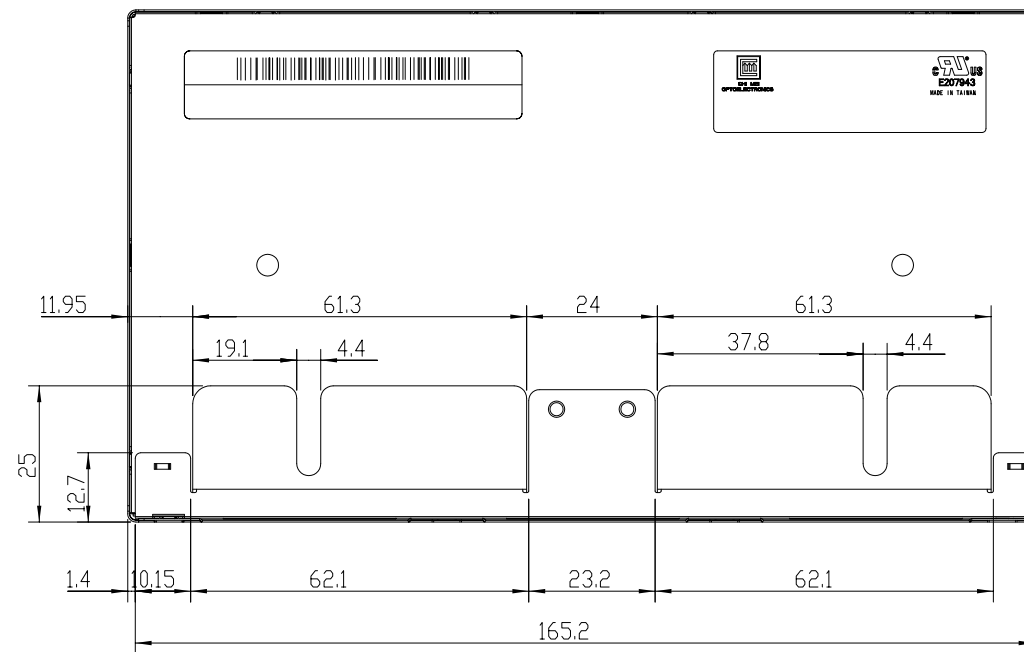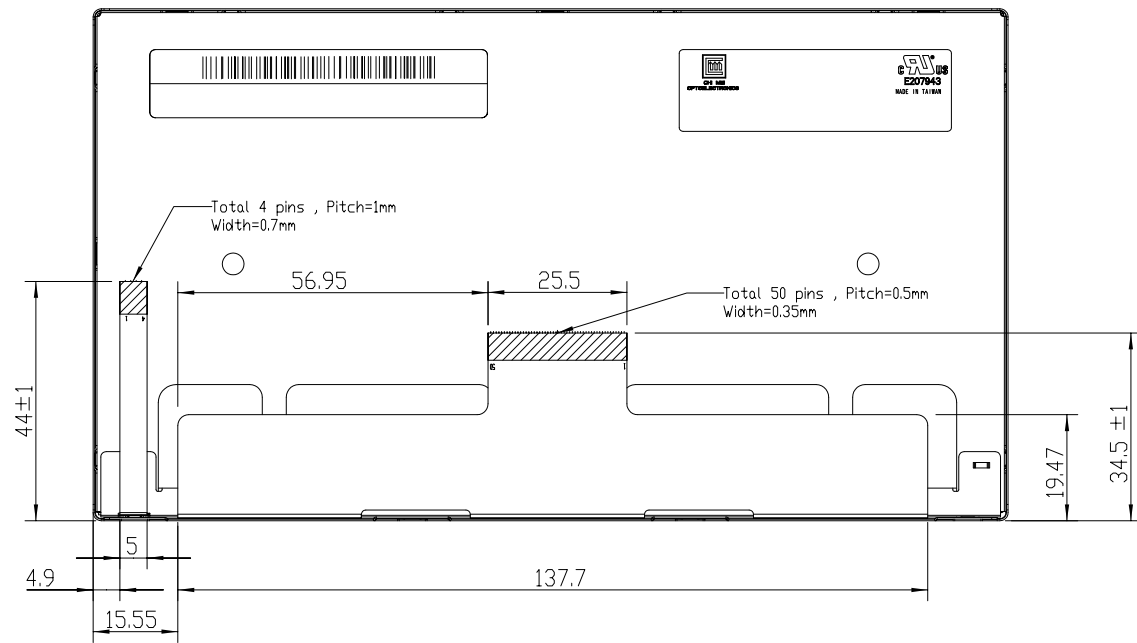NOTES:
1.OUTLINE TOLERANCE: ±0.3mm.
2.LIGHT-BAR MATING CONNECTOR:
   EZ24004TX2 (4) (UNICORN)
3.FPC MATING CONNECTOR :
   FH12-50S-0.5SH(55) (HIROSE)

TITLE	ASSY_MODULE_G070Y3-T01					2D REV.	A
						3D REV.	1.9
Approved	TIGER_CHANG	Drawing No.	G07034101A				
Checked	AIDEN_WANG	Part No.	TBD				
Drawer	AMONA_PAN	Material	TBD		Sheet	1 / 2	A3
Designer	AMONA_PAN	Date	26-Sep-2006	Scale	1:1	Unit:mm	

CHI MEI
OPTOELECTRONICS CORP.

Amona

| Mark | Description | Date | Changed_By | Approved_By | ECN No. | Remark |

Total 4 pins , Pitch=1mm
Width=0.7mm

56.95

25.5

Total 50 pins , Pitch=0.5mm
Width=0.35mm

44±1

19.47

34.5 ±1

5

4.9

137.7

15.55

11.95

61.3

24

61.3

19.1

4.4

37.8

4.4

25

12.7

1.4

10.15

62.1

23.2

62.1

165.2

6.1

BACK VIEW WITHOUT FPC&LIGHTBAR

NOTES:
1.OUTLINE TOLERANCE: ±0.3mm.
2.LIGHT-BAR MATING CONNECTOR:
 EZ24004TX2 (4) (UNICORN)
3.FPC MATING CONNECTOR :
 FH12-50S-0.5SH(55) (HIROSE)

TITLE	ASSY_MODULE_G070Y3-T01	2D REV. A
		3D REV. 1.9
Approved	TIGER_CHANG	Drawing No. G07034101A
Checked	AIDEN_WANG	Part No. TBD
Drawer	AMONA_PAN	Material TBD	Sheet 2 / 2 A2
Designer	AMONA_PAN	Date 22-Jun-2007 Scale 1:1 Unit:mm

2D REV. A

CHI MEI
OPTOELECTRONICS CORP.

Mark	Description	Date	Changed_By	Approved_By	ECN No.	Remark