



晶采光電科技股份有限公司
AMPIRE CO., LTD.

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SPECIFICATIONS FOR LCD MODULE

CUSTOMER	
CUSTOMER PART NO.	
AMPIRE PART NO.	AM-800600MTMQW-A1H
APPROVED BY	
DATE	

Approved For Specifications

Approved For Specifications & Sample

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APPROVED BY	CHECKED BY	ORGANIZED BY

RECORD OF REVISION

Revision Date	Page	Contents	Editor																								
2009/09/11	-	New Release	Emil																								
2009/09/16	-	Revise the connecter part No. to JST BHSR-02S-1	Emil																								
2009/09/17	8	Revise the connecter part No. to JAE FI-S20P-HFE.	Emil																								
2009/09/18	17,18	Update the mechanical drawing (front cover of the drawing).	Emil																								
2009/09/18	19	Addition a packing drawing.	Emil																								
2009/11/09	-	Issued the official part No. AM-800600MTMQW-A1H.	Emil																								
2009/11/10	20	Addition the describing of date code.	Emil																								
2009/11/10	12	Revise the incoming inspect standard.	Emil																								
2009/12/11	-	Remark the revising records:	Emil																								
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Location</th> <th style="text-align: center;">Component Type</th> <th style="text-align: center;">Part No.</th> </tr> </thead> <tbody> <tr> <td>CN3</td> <td>Connecter</td> <td>JAE FI-S20P-HFE</td> </tr> <tr> <td>PCB</td> <td>PCB</td> <td>800600M-A1 Rev. A</td> </tr> <tr> <td>CA,CB</td> <td>Capacitor</td> <td>10uF</td> </tr> <tr> <td>CC</td> <td>Capacitor</td> <td>2.2uF</td> </tr> <tr> <td>U1</td> <td>XOR Gate</td> <td>74SH86</td> </tr> <tr> <td>JP1(1-2 short)</td> <td>Resister</td> <td>0 ohm</td> </tr> <tr> <td>BD1</td> <td>Resister</td> <td>Removed</td> </tr> </tbody> </table>	Location	Component Type	Part No.	CN3	Connecter	JAE FI-S20P-HFE	PCB	PCB	800600M-A1 Rev. A	CA,CB	Capacitor	10uF	CC	Capacitor	2.2uF	U1	XOR Gate	74SH86	JP1(1-2 short)	Resister	0 ohm	BD1	Resister	Removed	
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2009/12/14	17-18	Revise the Pin definition.	Emil																								
2009/12/15	7	Add the section of power consumption.	Emil																								
2010/3/26	11	Add the power on/off sequence	Edward																								

1. INSTRUCTION

Ampire 8.4" Display Module is a color active matrix TFT-LCD that uses amorphous silicon TFT as a switching device. This model is composed of a TFT-LCD panel, a driving circuit . This TFT-LCD has a high resolution (800(R.G.B) X 600) and can display up to 262,144 colors.

1.1 Features

- (1) Construction : a-Si TFT-LCD with driving system, White LED Backlight.
- (2) LCD type : Transmissive , Normally White
- (3) Number of the Colors : 262K colors (R,G,B 6 bit digital each)
- (4) LVDS Interface.
- (5) LCD Power Supply Voltage : 3.3V single power input, built-in power supply circuit.
- (6) Build-in LED Driver IC (VLED=3.3V~5V).

2. PHYSICAL SPECIFICATIONS

Item	Specifications	unit
Display resolution(dot)	800RGB (W) x 600(H)	dots
Active area	170.40 (W) x 127.80(H)	mm
Pixel pitch	213 (W) x 213 (H)	um
Color configuration	R.G.B -stripe	
Overall dimension	189.75(W)x149.40(H)x9.50(D)	mm
Weight	272	g
Backlight unit	LED	
Display color	262K	colors

3. ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit	Note
Supply voltage range	VCC	-0.5	4	V	(1)
Voltage range at any terminal	VI	-0.5	VCC + 0.5	V	
Operating Temperature	Top	-20	70	°C	
Storage Temperature	Tstg	-30	80	°C	

(1)All voltage values are with respect to the GND terminals unless otherwise noted.

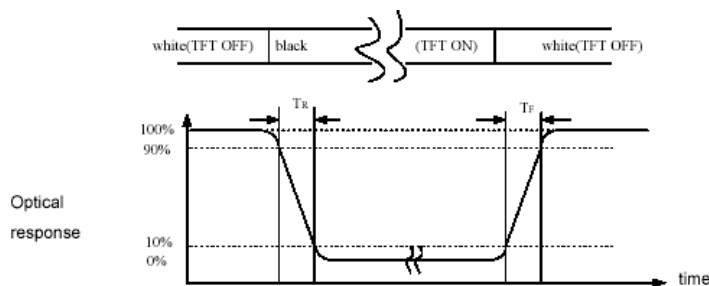
4. OPTICAL CHARACTERISTICS

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Response Time		$T_r + T_f$	$\Theta = \Phi = 0^\circ$	-	8	16	ms	(1)
Contrast ratio		CR		480	600	-	-	(2)(3)
Viewing Angle	Horizontal	Θ_L	$CR \geq 10$	65	75	-	Deg.	(5)
		Θ_R		65	75	-		
	Vertical	Θ_U		50	60	-		
		Θ_D		60	70	-		
Luminance (Center)		L	$\Theta = \Phi = 0^\circ$	200	250	-	cd/m ²	(3)(4) IL=180mA
Luminance Uniformity		ΔL		-	70	-	%	(3)(4)
Color chromaticity	White	Wx		0.26	0.31	0.367		
		Wy		0.28	0.33	0.38		

NOTE :

- These items are measured by BM-5A(TOPCON) or CA-1000(MINOLTA) in the dark room (no ambient light)

(1) Definition of Response Time (White-Black)



(2) Definition of Contrast Ratio

Measure contrast ratio on the below 5 points(refer to figure1,#1~#5point) and take the average value

Contrast ratio is calculated with the following formula :

$$\text{Contrast Ratio(CR)} = (\text{White})\text{Luminance of ON} \div (\text{Black})\text{Luminance of OFF}$$

(3) Definition of Luminance :

Measure white luminance on the same 5 points and take the average value

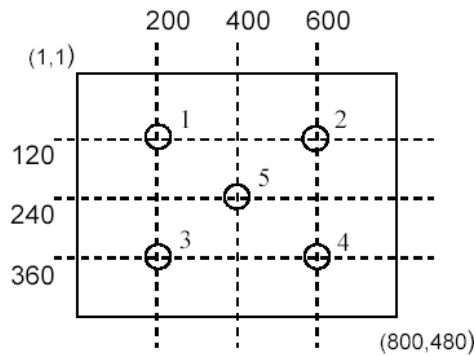


Fig.1 Measuring point

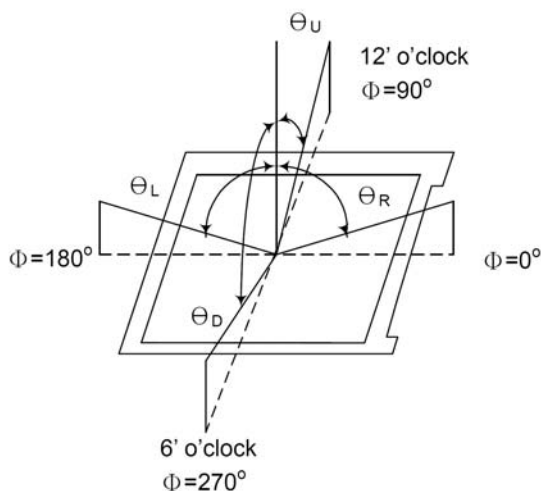
(4) Definition of Luminance Uniformity :

Measured Maximum luminance[L(MAX)] and Minimum luminance[L(MIN)] on the 5 points

Luminance Uniformity is calculated with the following formula :

$$\Delta L = [L(\text{MIN}) / L(\text{MAX})] \times 100\%$$

(5) Definition of Viewing Angle



5. ELECTRICAL CHARACTERISTICS

Recommended Operating Conditions

See Figure 2

		MIN	NOM	MAX	UNIT
V_{CC}	Supply voltage	3	3.3	3.6	V
V_{IH}	High-level input voltage (SHTDN)	2			V
V_{IL}	Low-level input voltage (SHTDN)			0.8	V
$ V_{ID} $	Magnitude differential input voltage	0.1		0.6	V
V_{IC}	Common-mode input voltage	$\frac{ V_{ID} }{2}$	$2.4 - \frac{ V_{ID} }{2}$		V
T_A	Operating free-air temperature	-40		125	°C

Timing Requirements

		MIN	NOM	MAX	UNIT
$t_c^{(1)}$	Cycle time, input clock	14.7	t_c	32.4	ns

(1) Parameter t_c is defined as the mean duration of a minimum of 32000 clock cycles.

PARAMETER MEASUREMENT INFORMATION

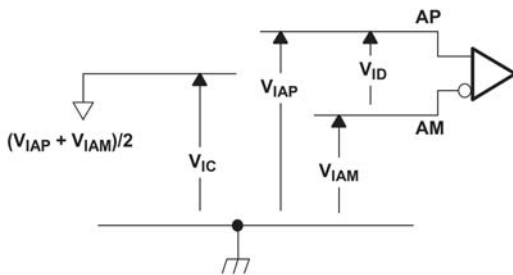
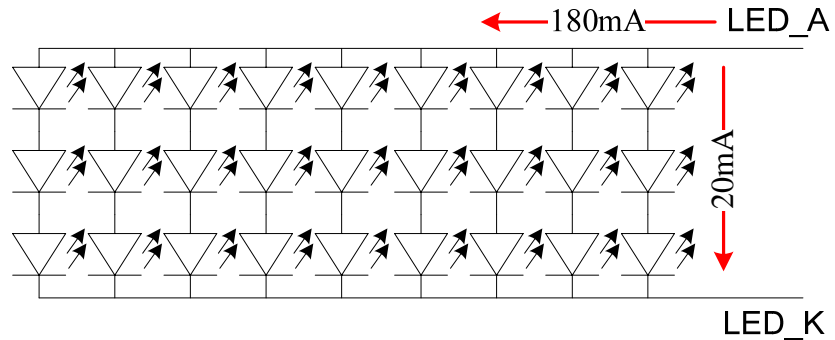


Figure 2. Voltage Definitions

6. Backlight Driving Circuit

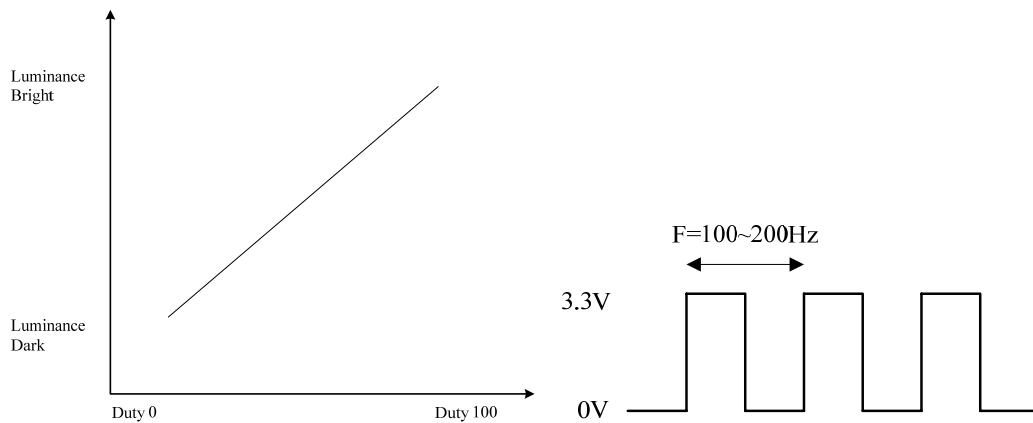
ITEM	SYMBOL	MIN	TYP	MAX	UNIT	NOTE
LED Voltage	V_{LED}	3.3	--	5V	V	Note1
LED Current	$I_{LED(dice)}$	--	180	--	mA	
LED life time		20000	--	-	Hr	Note2
LED DRIVER Power Current	$I_{LED}(V_{LED}=5V)$	-	500	--	mA	

Note 1 : There are 6 Groups LED shown as below



Note 2 : Brightness to be decreased to 50% of the initial value.

6.1 PWM Dimming Control



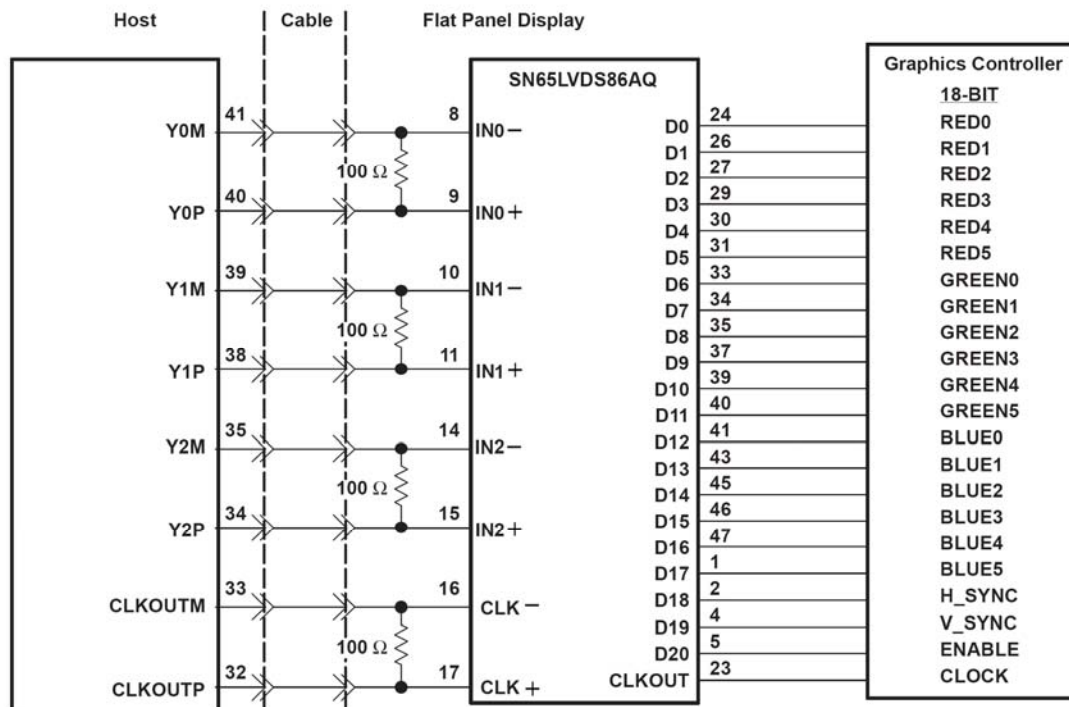
6.2 Power Consumption:

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	NOTE
Consumption of LCD	PLCD	-	0.58	-	W	VCC=3.3V
Consumption of LED	PLED	-	3.1	-	W	VLED=3.3V
		-	2.9	-	W	VLED=5V

7. INTERFACE

LVDS CN: JAE FI-S20P-HFE

Pin no	Symbol	Function
1	ADJ	Adjust for LED Brightness by PWM.
2	Gnd	Power Ground
3	LED_EN	Backlight ON/OFF control; High level: ON, Low Level: OFF.
4	VLED	POWER SUPPLY for LED Driver IC : 3.3V-5V
5	Gnd	Power Ground
6	CLK+	Sampling Clock
7	CLK-	Sampling Clock
8	Gnd	Power Ground
9	IN2+	Transmission Data of Pixels 2
10	IN2-	Transmission Data of Pixels 2
11	Gnd	Power Ground
12	IN1+	Transmission Data of Pixels 1
13	IN1-	Transmission Data of Pixels 1
14	Gnd	Power Ground
15	IN0+	Transmission Data of Pixels
16	IN0-	Transmission Data of Pixels
17	Gnd	Power Ground
18	Gnd	Power Ground
19	VDD	POWER SUPPLY:3.3V
20	VDD	POWER SUPPLY:3.3V



8. AC Timing characteristic of the LVDS

Switching Characteristics

over recommended operating conditions (unless otherwise noted)

PARAMETER		TEST CONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
t_{su}	Setup time, D0–D20 to CLKOUT↓	$C_L = 8 \text{ pF}$, See Figure 5	5			ns
t_h	Data hold time, CLKOUT↓ to D0–D20		5			ns
$t_{(RSKM)}$	Receiver input skew margin ⁽²⁾ (see Figure 7)	$t_c = 15.38 \text{ ns}$ ($\pm 0.2\%$), Input clock jitter < 50 ps, ⁽³⁾	550	700		ps
t_d	Delay time, CLKIN↑ to CLKOUT↓ (see Figure 7)	$V_{CC} = 3.3 \text{ V}$, $t_c = 15.38 \text{ ns}$ ($\pm 0.2\%$), $T_A = 25^\circ\text{C}$	3	5	7	ns
t_{en}	Enable time, $\overline{\text{SHTDN}}$ to phase lock	See Figure 7		1		ms
t_{dis}	Disable time, $\overline{\text{SHTDN}}$ to off state	See Figure 8		400		ns
t_t	Transition time, output (10% to 90% t_r or t_f) (data only)	$C_L = 8 \text{ pF}$		3		ns
t_t	Transition time, output (10% to 90% t_r or t_f) (clock only)	$C_L = 8 \text{ pF}$		1.5		ns
t_w	Pulse duration, output clock			$0.50 t_c$		ns

(1) All typical values are at $V_{CC} = 3.3 \text{ V}$, $T_A = 25^\circ\text{C}$.

(2) The parameter $t_{(RSKM)}$ is the timing margin available to allocate to the transmitter and interconnection skews and clock jitter. The value of this parameter at clock periods other than 15.38 ns can be calculated from $t_{RSKM} = t_c/14 - 550 \text{ ps}$.

(3) |Input clock jitter| is the magnitude of the change in input clock period.

PARAMETER MEASUREMENT INFORMATION (continued)

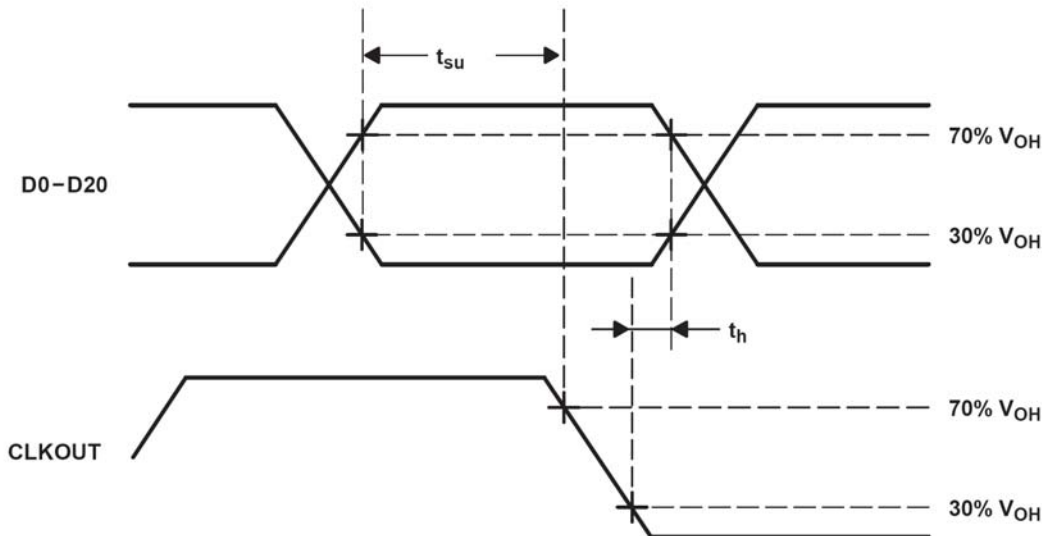


Figure 5. Setup and Hold Time Waveforms

PARAMETER MEASUREMENT INFORMATION (continued)

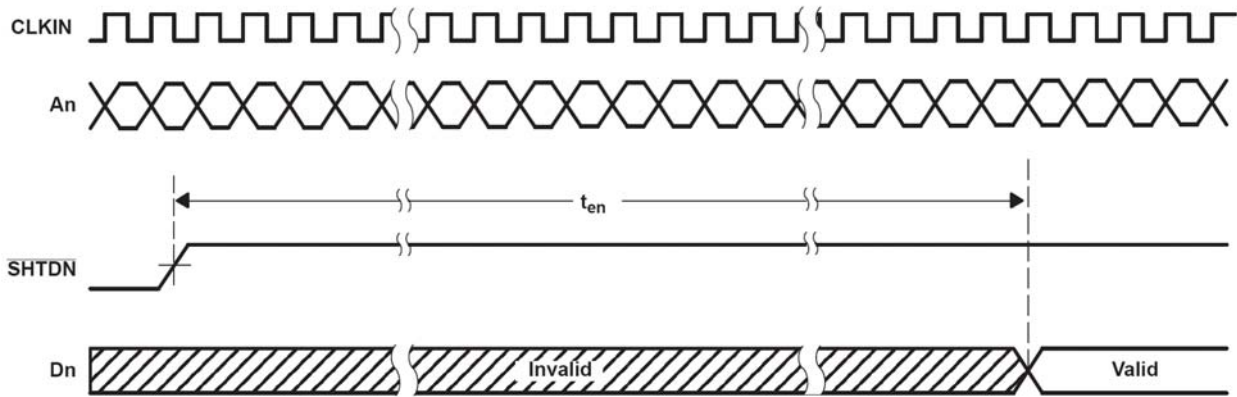


Figure 7. Enable Time Waveforms

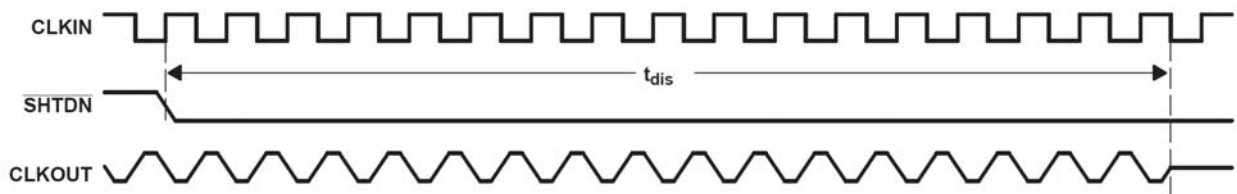
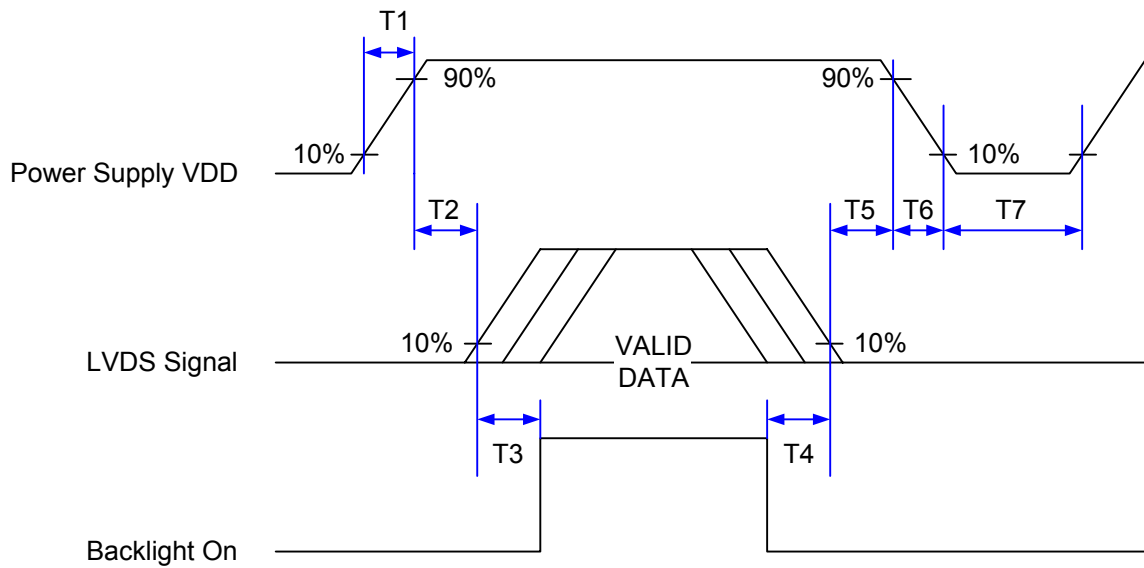


Figure 8. Disable Time Waveforms

Power ON/OFF Sequence



Power ON/OFF sequence timing

Symbol	Value			Unit
	Min.	Typ.	Max.	
T1	0.5	--	20	ms
T2	0	40	50	ms
T3	200	--	--	ms
T4	200	--	--	ms
T5	0	40	50	ms
T6	0	--	20	ms
T7	1000	--	--	ms

9 . QUALITY AND RELIABILITY

9.1 TEST CONDITIONS

Tests should be conducted under the following conditions :

Ambient temperature : $25 \pm 5^{\circ}\text{C}$

Humidity : $60 \pm 25\% \text{ RH}$.

9.2 SAMPLING PLAN

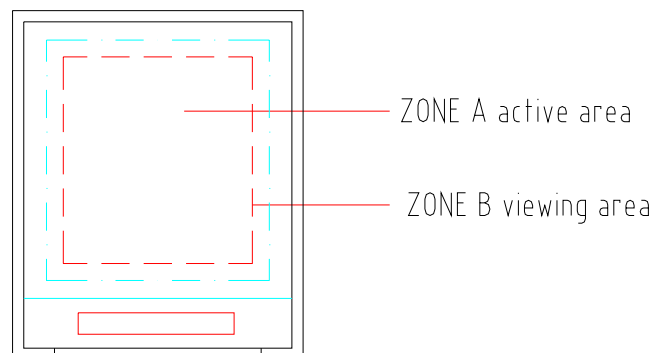
Sampling method shall be in accordance with MIL-STD-105E , level II, normal single sampling plan .

9.3 ACCEPTABLE QUALITY LEVEL

A major defect is defined as one that could cause failure to or materially reduce the usability of the unit for its intended purpose. A minor defect is one that does not materially reduce the usability of the unit for its intended purpose or is an infringement from established standards and has no significant bearing on its effective use or operation.

9.4 APPEARANCE

An appearance test should be conducted by human sight at approximately 30 cm distance from the LCD module under florescent light. The inspection area of LCD panel shall be within the range of following limits.



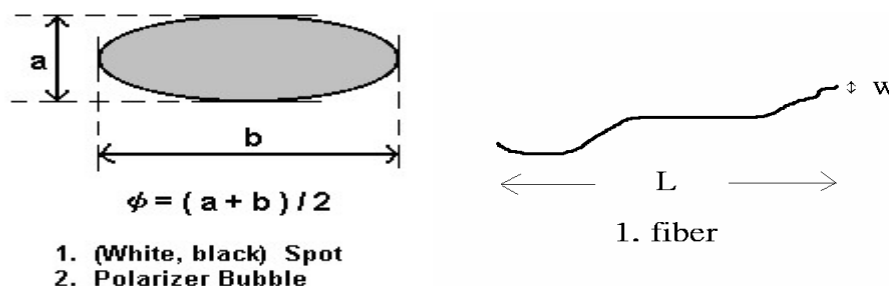
9.5 INCOMING INSPECTION STANDARD FOR TFT-LCD PANEL

DEFECT TYPE		LIMIT				Note			
VISUAL DEFECT	INTERNAL	SPOT	$\varphi < 0.15\text{mm}$		Ignore	Note1			
			$0.15\text{mm} \leq \varphi \leq 0.5\text{mm}$		$N \leq 4$				
			$0.5\text{mm} < \varphi$		$N = 0$				
		FIBER	$0.03\text{mm} < W \leq 0.1\text{mm}, L \leq 5\text{mm}$		$N \leq 4$		Note1		
			$1.0\text{mm} < W, 1.5\text{mm} < L$		$N = 0$				
		POLARIZER BUBBLE	$\varphi < 0.15\text{mm}$		Ignore		Note1		
			$0.15\text{mm} \leq \varphi \leq 0.5\text{mm}$		$N \leq 4$				
			$0.5\text{mm} < \varphi$		$N = 0$				
Mura		It' OK if mura is slight visible through 6%ND filter							
ELECTRICAL DEFECT	BRIGHT DOT		A Grade			B Grade			
			C Area	O Area	Total	C Area	O Area	Total	Note3
			$N \leq 0$	$N \leq 2$	$N \leq 2$	$N \leq 2$	$N \leq 3$	$N \leq 5$	Note2
	DARK DOT		$N \leq 2$	$N \leq 4$	$N \leq 4$	$N \leq 3$	$N \leq 5$	$N \leq 8$	
	TOTAL DOT		$N \leq 4$			$N \leq 5$	$N \leq 6$	$N \leq 8$	Note2
	TWO ADJACENT DOT		$N \leq 0$	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	Note4
	THREE OR MORE ADJACENT DOT		NOT ALLOWED						
	LINE DEFECT		NOT ALLOWED						

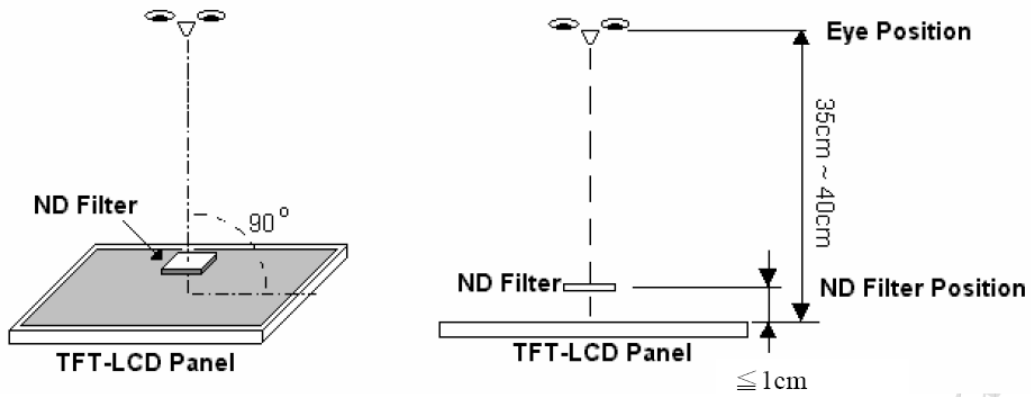
(1) One pixel consists of 3 sub-pixels, including R,G, and B dot.(Sub-pixel = Dot)

(2) LITTLE BRIGHT DOT ACCEPTABLE UNDER 6 % ND-Filter

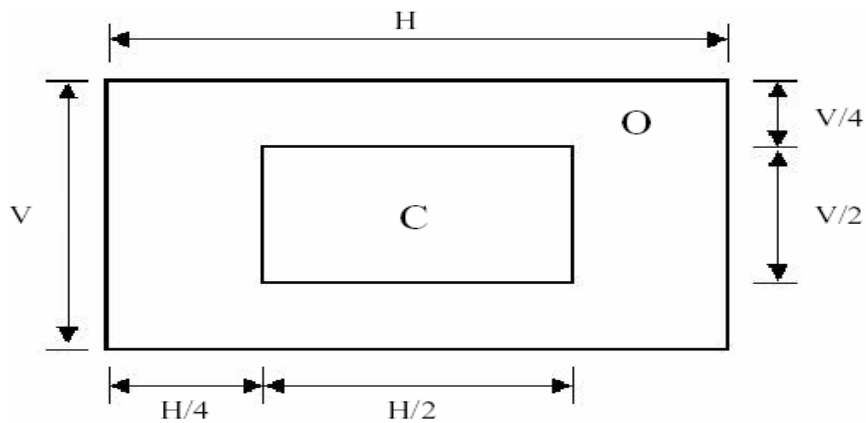
[Note1] W : Width[mm], L : Length[mm], N : Number, φ : Average Diameter



[Note2] Bright dot is defined through 6% transmission ND Filter as following.



[Note3]

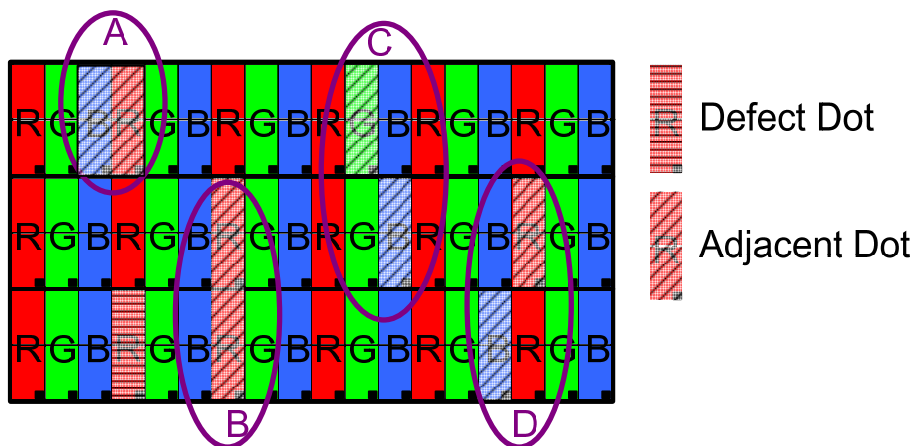


C Area: Center of display area

O Area: Outer of display area

[Note4]

Judge defect dot and adjacent dot as following. Allow below (as A, B, C and D status) adjacent defect dots, including bright and dark adjacent dot. And they will be counted 2 defect dots in total quantity.



- (1) The defects that are not defined above and considered to be problem shall be reviewed and discussed by both parties.
- (2) Defects on the Black Matrix, out of Display area, are not considered as a defect or counted.

9.6 Reliability Test

Test Item	Test Conditions	Note
High Temperature Operation	70±3°C , t=96 hrs	
Low Temperature Operation	-20±3°C , t=96 hrs	
High Temperature Storage	80±3°C , t=96 hrs	1,2
Low Temperature Storage	-30±3°C , t=96 hrs	1,2
Thermal Shock Test	-20°C ~ 25°C ~ 70°C 30 m in. 5 min. 30 min. (1 cycle) Total 5 cycle	1,2
Humidity Test	60 °C, Humidity 90%, 96 hrs	1,2
Vibration Test (Packing)	Sweep frequency : 10 ~ 55 ~ 10 Hz/1min Amplitude : 0.75mm Test direction : X.Y.Z/3 axis Duration : 30min/each axis	2

Note 1 : Condensation of water is not permitted on the module.

Note 2 : The module should be inspected after 1 hour storage in normal conditions
(15-35°C , 45-65%RH).

Definitions of life end point :

- Current drain should be smaller than the specific value.
- Function of the module should be maintained.
- Appearance and display quality should not have degraded noticeably.
- Contrast ratio should be greater than 50% of the initial value.

10. USE PRECAUTIONS

10.1 Handling precautions

- 1) The polarizing plate may break easily so be careful when handling it. Do not touch, press or rub it with a hard-material tool like tweezers.
- 2) Do not touch the polarizing plate surface with bare hands so as not to make it dirty. If the surface or other related part of the polarizing plate is dirty, soak a soft cotton cloth or chamois leather in benzene and wipe off with it. Do not use chemical liquids such as acetone, toluene and isopropyl alcohol. Failure to do so may bring chemical reaction phenomena and deteriorations.
- 3) Remove any spit or water immediately. If it is left for hours, the suffered part may deform or decolorize.
- 4) If the LCD element breaks and any LC stuff leaks, do not suck or lick it. Also if LC stuff is stuck on your skin or clothing, wash thoroughly with soap and water immediately.

10.2 Installing precautions

- 1) The PCB has many ICs that may be damaged easily by static electricity. To prevent breaking by static electricity from the human body and clothing, earth the human body properly using the high resistance and discharge static electricity during the operation. In this case, however, the resistance value should be approx. $1M\Omega$ and the resistance should be placed near the human body rather than the ground surface. When the indoor space is dry, static electricity may occur easily so be careful. We recommend the indoor space should be kept with humidity of 60% or more. When a soldering iron or other similar tool is used for assembly, be sure to earth it.
- 2) When installing the module and ICs, do not bend or twist them. Failure to do so may crack LC element and cause circuit failure.
- 3) To protect LC element, especially polarizing plate, use a transparent protective plate (e.g., acrylic plate, glass etc) for the product case.
- 4) Do not use an adhesive like a both-side adhesive tape to make LCD surface (polarizing plate) and product case stick together. Failure to do so may cause the polarizing plate to peel off.

10.3 Storage precautions

- 1) Avoid a high temperature and humidity area. Keep the temperature between 0°C and 35°C and also the humidity under 60%.
- 2) Choose the dark spaces where the product is not exposed to direct sunlight or fluorescent light.
- 3) Store the products as they are put in the boxes provided from us or in the same conditions as we recommend.

10.4 Operating precautions

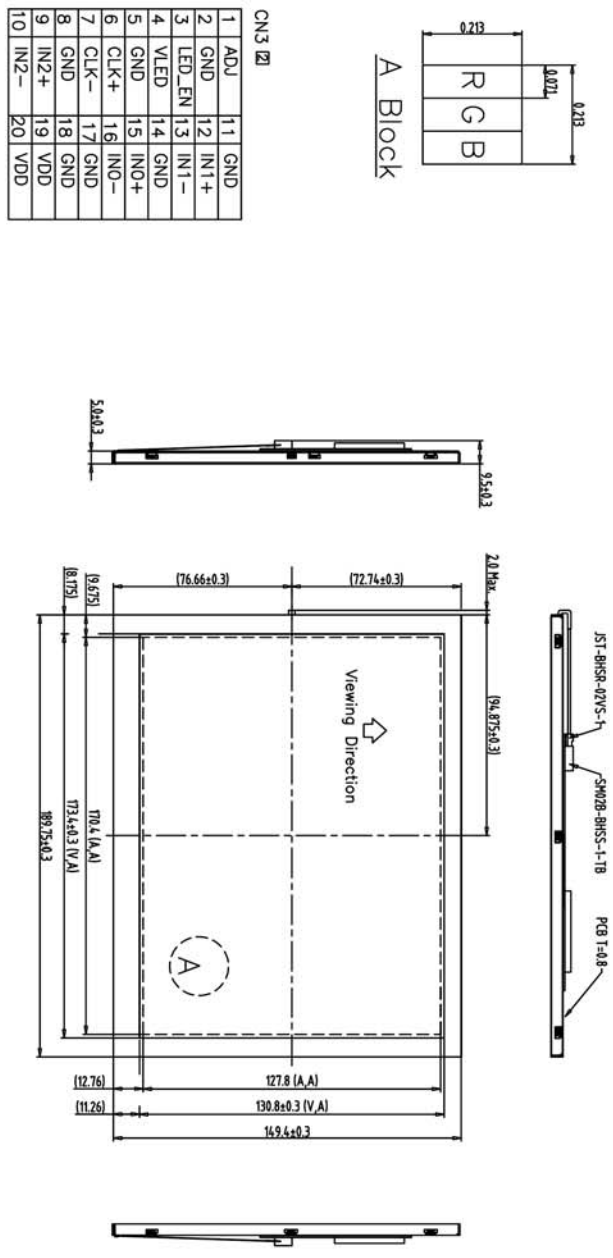
- 1) Do not boost the applied drive voltage abnormally. Failure to do so may break ICs. When applying power voltage, check the electrical features beforehand and be careful. Always turn off the power to the LC module controller before removing or inserting the LC module input connector. If the input connector is removed or inserted while the power is turned on, the LC module internal circuit may break.
- 2) The display response may be late if the operating temperature is under the normal standard, and the display may be out of order if it is above the normal standard. But this is not a failure; this will be restored if it is within the normal standard.
- 3) The LCD contrast varies depending on the visual angle, ambient temperature, power voltage etc. Obtain the optimum contrast by adjusting the LC drive voltage.
- 4) When carrying out the test, do not take the module out of the low-temperature space suddenly. Failure to do so will cause the module condensing, leading to malfunctions.
- 5) Make certain that each signal noise level is within the standard (L level: 0.2V_{dd} or less and H level: 0.8V_{dd} or more) even if the module has functioned properly. If it is beyond the standard, the module may often malfunction. In addition, always connect the module when making noise level measurements.
- 6) The CMOS ICs are incorporated in the module and the pull-up and pull-down function is not adopted for the input so avoid putting the input signal open while the power is ON.
- 7) The characteristic of the semiconductor element changes when it is exposed to light emissions, therefore ICs on the LCD may malfunction if they receive light emissions. To prevent these malfunctions, design and assemble ICs so that they are shielded from light emissions.
- 8) Crosstalk occurs because of characteristics of the LCD. In general, crosstalk occurs when the regularized display is maintained. Also, crosstalk is affected by the LC drive voltage. Design the contents of the display, considering crosstalk.

10.5 Other

- 1) Do not disassemble or take the LC module into pieces. The LC modules once disassembled or taken into pieces are not the guarantee articles.
- 2) The residual image may exist if the same display pattern is shown for hours. This residual image, however, disappears when another display pattern is shown or the drive is interrupted and left for a while. But this is not a problem on reliability.
- 3) AMIPRE will provide one year warranty for all products and three months warrantee for all repairing products.

11. OUTLINE DIMENSION

REV.	REVISION RECORD	DATE/NAME
0	NEW RELEASE	08-14-09/SNOW
1	Rename TF800600-42-0 to 800600M-A1	08-02-09/SNOW
2	Modify Interface & CN3 Pin1 to Pin 20	02-14-09/SNOW



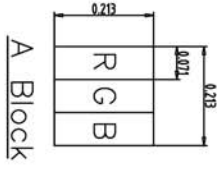
CN3 ②

1	ADU	11	GND
2	GND	12	IN1+
3	LED_EN	13	IN1-
4	ILED	14	GND
5	GND	15	IN0+
6	CLK+	16	IN0-
7	CLK-	17	GND
8	GND	18	GND
9	IN2+	19	VDD
10	IN2-	20	VDD

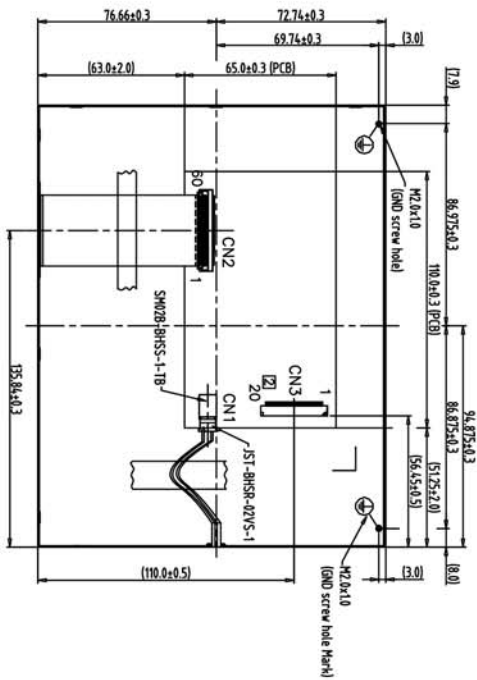
Note:
 1. Unless indicated, Tolerance Grade "B" is adopted.
 2. UV Glue For OLB Protection.
 3. CN1: JST BHSR-02VS-1 or Equivalent
 4. CN2: P0.5 60Pin Connector: HIROSE FH28-60S-0.5SH or Equivalent
 5. CN3: P1.25 20Pin Connector: JAE FI-S20P-HFE or equivalent

1	TF800600-42-0	7		TOLERANCE GRADE(F)	A	B	DIM.	MM	DWN.	SNOW	DATE	TITLE
2		8		~6	0.05	0.1	JE NO.		CHK.		09-11-09	800600M-A1
3		9		6~18	0.08	0.18	JE NO.				DATE	晶采光电科技
4		10		18~50	0.1	0.25	PARTS NO. LCM					(8.4" + LVS)
5		11		50~180	0.2	0.4	800600M-A1					2
6		12		180~	0.3	0.5						SHEET 1 OF 1

REV.	REVISION RECORD	DATE	NAME
0	NEW RELEASE	09-11-09	SNOW
1	Rename TF800600-42-0 to 800600M-A1	09-07-09	SNOW
2	Modify Interface & CN3 Pin1 to Pin 20	12-14-09	SNOW




CN3 ②	
1	ADU
2	GND
3	LED_EN
4	VLED
5	GND
6	CLK+
7	CLK-
8	GND
9	IN2+
10	IN2-
11	GND
12	IN1+
13	IN1-
14	GND
15	INO+
16	INO-
17	GND
18	GND
19	VDD
20	VDD



Back View

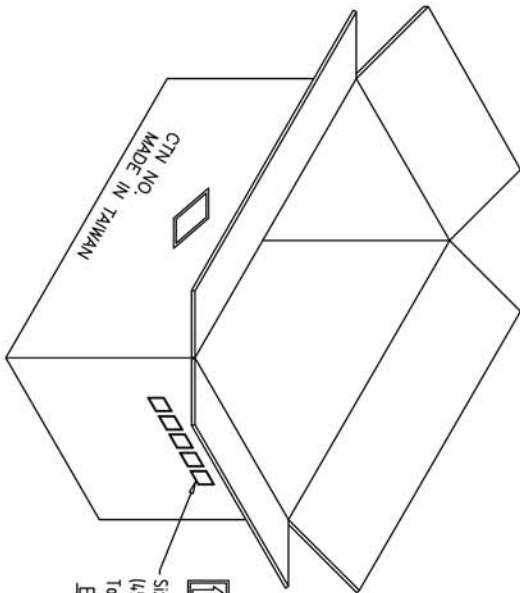
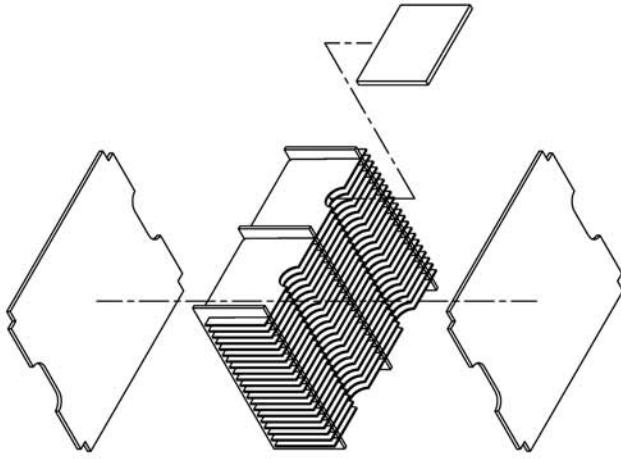
Note:

1. Unless indicated, Tolerance Grade "B" is adopted.
2. UV Glue For OLB Protection.
3. CN1: JST BHSR-02VS-1 or Equivalent
4. CN2: P0.5 60Pin Connector: HIROSE FH28-60S-0.5SH or Equivalent
5. CN3: P1.25 20Pin Connector: JAE FI-S20P-HFE or equivalent

1	TF800600-42-0	7	TOLERANCE GRADE(F)	A	B	DIM.	MM	DWN.	SNOW	DATE	TITLE
2		8	~6	0.05	0.1					09-11-09	 晶采光電科技 800600M-A1 (8.4" + LVDS)
3		9	6~18	0.08	0.18	IE NO.		CHK.		DATE	
4		10	18~50	0.1	0.25						
5		11	50~180	0.2	0.4	PARTS NO. ICM-1	800600M-A1	APPD.		DATE	
6		12	180~	0.3	0.5						

12 Packing Condition and Date Code

12-1 Packing Condition



Note:

1. Bag = 1 PCS LCM
2. Big Box = 2x 20 = 40 PCS LCM

1	7	TOLERANCE GRADE(%)	A	B	DIM.	MM	DWN.	DATE
2	8	~6	0.05	0.1			SNOW	09-17-09
3	9	6~18	0.08	0.18	IR NO.		CHK.	DATE
4	10	18~50	0.1	0.25				
5	11	50~180	0.2	0.4	PARTS NO. Packing		APPD.	DATE
6	12	180~	0.3	0.5	800600M-A1			


AMPIRE 晶采光電科技
800600M-A1
 (8.4" + LVDS) [1]

REV	REVISION RECORD	DATE NAME
0	NEW RELEASE	09-17-09 SNOW
1	Rename TF800600-4.2-0 to 800600M-A1	10-02-09 SNOW

12-2 Date Code

