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CUSTOMER .

SAMPLE CODE · SH102600T015-IBA

MASS PRODUCTION CODE . PH102600T015-IBA

SAMPLE VERSION . 01

SPECIFICATIONS EDITION . 003

DRAWING NO. (Ver.) . LMD-PH102600T015-IBA (Ver.003)

PACKAGING NO. (Ver.) . PKG-PH102600T015-IBA (Ver.001)

Customer Approved

Date:

Approved	Checked	Designer
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☐ Preliminary specification for design input

Specification for sample approval

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2020.07.09

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History of Version

Date (mm / dd / yyyy)	Ver.	Edi.	Description	Page	Design by
01/21/2020	01	001	New Drawing	-	Yuan
			First Sample	-	
05/06/2020	01	002	Modify FPC design	Appendix	Yuan
			Modify dimension	Appendix	
07/09/2020	01	003	Modify High Temperature Storage Test condition	28	Yuan
		X			



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1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	1024 * 3 (RGB) * 600 Dots
LCD Type	a-Si TFT , Normally white , Transmissive type
Gray Scale Inversion Direction	6 o'clock
Eyes Viewing Direction	12 o'clock
Screen size(inch)	7.0 inch
Color configuration	RGB-Strip
Backlight Type	LED B/L
Interface	LVDS Interface
Other(controller/driver IC)	EK79001EB+EK73215BCGB (Or Compatible IC)
	THIS PRODUCT CONFORMS THE ROHS OF PTC
ROHS	Detail information please refer website :
	http://www.powertip.com.tw/news_detail.php?Key=1&cID=1

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	165.75(W) * 105.4(L) * 2.65 (H)	mm

LCD panel

Item	Standard Value		
Viewing Area	155.21(W) * 86.92 (L)	mm	
Active Area	154.21 (W) * 85.92 (L)	mm	

Note: For detailed information please refer to LCM drawing



1.3 Absolute Maximum Ratings

Module

Item	Symbol	Condition	Min.	Max.	Unit
	VDD	-	-0.5	5	V
Dower Voltage	AVDD	-	-0.5	15	V
Power Voltage	VGH	-	-0.3	40	V
	VGL	-	-20	0.3	V
Operating Temperature	T _{OP} (Ts)	Note 1	-20	70	°C
Storage Temperature	T _{ST} (Ta)	Note 2	-30	80	°C

The absolute maximum rating values of this product are not allowed to be exceeded at any times. Should a module be used with any of the absolute maximum ratings exceeded, the characteristics of the module may not be recovered, or in an extreme case, the module may be permanently destroyed.

Note 1: Ts is the temperature of panel's surface.

Note 2: Ta is the ambient temperature of samples.

1.4 DC Electrical Characteristics

Module GND = 0V, Ta = $25^{\circ}C$

Item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Vdd	-	2.5	3.3	3.6	V	
	AVDD	-	9.4	9.6	9.8	V	
	VGH	-	17.0	18.0	19.0	V	
	VGL	-	-7.0	-6.0	-5.0	V	
Input signal Voltage	VCOM	-	3.0	3.6	4.2	V	Note2
Input Signal	VIH	-	0.7Vdd	-	Vdd	V	
Voltage	VIL	-	0	-	0.3 VDD	V	
	I _{DD}	V _{DD} = 3.3 V Pattern= Red *1	ı	25	40	mA	
Supply Current	ladd	Avdd=9.6V Pattern= Red	ı	15	25	mA	Note1
Supply Current	Ідн	V _{GH} =18.0V Pattern= Red	1	0.5	1	mA	Note
	İgL	VGL=-6.0V Pattern= Red	1	0.5	1	mA	

Note1:Maximum current display

Note2: VCOM must be adjusted to optimize display quality: cross-talk, contrast ratio and etc



1.5 Optical Characteristics

TFT LCD Module

VDD = 3.3 V, Ta=25°C

Item		Symbol	Condition	Min.	Тур.	Max.	unit	
Response time	Tr	+ Tf	Ta = 25° C θ X, θ Y = 0°	-	30	45	ms	Note 2
	Тор	θΥ+		-	60	-		
Viewing engle	Bottom	θΥ-	CD > 10	-	60	-	Dog	Note 4
Viewing angle	Left	θX-	CR ≥ 10	-	60	-	Deg.	Note 4
	Right	θX+		-	60	-		
Contrast ration	0	CR		500	600	-	-	Note 3
	\	Х		0.23	0.28	0.33		
	White	Υ		0.30	0.35	0.40		
0	Dod	Х	Ta = 25°C	0.53	0.58	0.63		
Color of CIE Coordinate	Red	Υ	θX , $\theta Y = 0^{\circ}$	0.29	0.34	0.39		Note1
(With B/L)	Green	X	0,71,01	0.29	0.34	0.39	-	NOLE
(*************************************	Gleen	Υ		0.55	0.60	0.65		
	Blue	X		0.09	0.14	0.19		
	Diue	Υ		0.06	0.11	0.16		
Average Brightr	ness							
Pattern=white dis	splay	IV	IF=200mA	400	500	-	cd/m ²	Note1
(With LCD)*	1							
Uniformity (With LCD)*2	2	△B	IF=200mA	70	-	-	%	Note1



Note 1:

*1 : △B=B(min) / B(max) * 100%

*2 : Measurement Condition for Optical Characteristics:

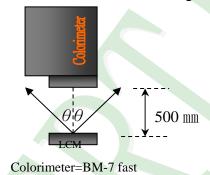
a: Environment: 25°C±5°C / 60±20%R.H, no wind, dark room below 10 Lux at typical lamp current and typical operating frequency.

b : Measurement Distance: $500 \pm 50 \text{ mm}$, $(\theta = 0^{\circ})$

c: Equipment: TOPCON BM-7 fast, (field 1°), after 10 minutes operation.

d: The uncertainty of the C.I.E coordinate measurement ±0.01, Average Brightness ± 4%





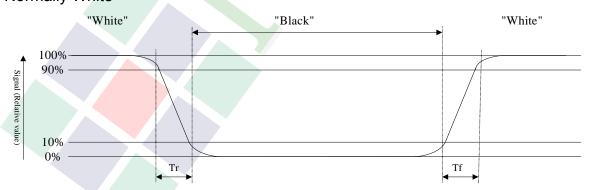
To be measured at the center area of panel with a viewing cone of 1° by Topcon luminance meter BM-7, after 10 minutes operation (module)

Note2: Definition of response time:

The output signals of photo detector are measured when the input signals are changed from "black" to "white" (falling time) and from "white" to "black" (rising time), respectively. The response time is defined as the time interval between the 10% and 90% of Amplitudes.

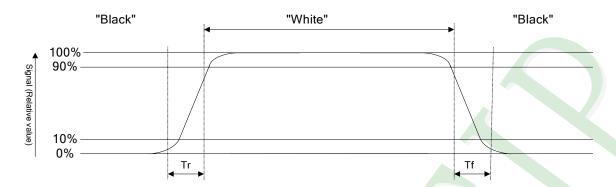
Refer to figure as below:

Normally White





Normally Black



Note3: Definition of contrast ratio:

Contrast ratio is calculated with the following formula

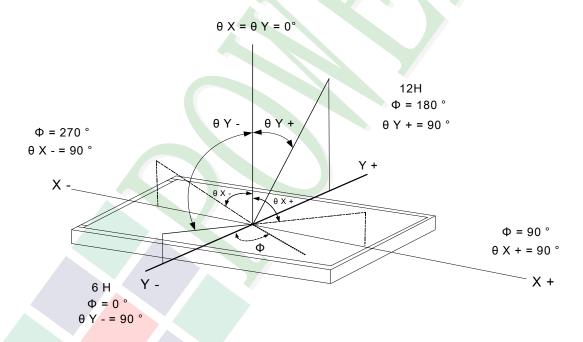
Photo detector output when LCD is at "White" state

Contrast ratio (CR) =

Photo detector output when LCD is at "Black" state

Note4: Definition of viewing angle:

Refer to figure as below:



Note5: Applying with spectrophotometer in the condition of 400 to 700nm, 10nm/each; in accordance with JIS Z 8701 2 degree viewing XYZ system, measuring the reflective rate of 5 degree



1.6 Backlight Characteristics

Maximum Ratings

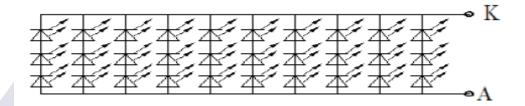
Item	Symbol	Conditions	Min.	Max.	Unit
LED Forward Current	IF	Ta =25°C	-	300	mA
LED Reverse Voltage	VR	Ta =25°C	-	5	V
Power Dissipation	PD	Ta =25°C	-	1.98	W

Backlight Characteristics

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF		8.1	9.3	10.2	V
Average Brightness (Without LCD)	IV	IF=200mA	11200	12800	/-	cd/m ²
CIE Color Coordinate	Х	IF-200IIIA	0.25	0.28	0.31	
(Without LCD)	Y		0.28	0.31	0.34	1
Uniformity *1	∆В		75	-	-	*2
Color			White			

*1: This value will be changed while mass production.

*2 : △B=B(min) / B(max)% B/L Internal Circuit Diagram



Other Description

Item	Conditions	Description
Life Time	Ta =25°C IF= 200 mA	20000 hrs



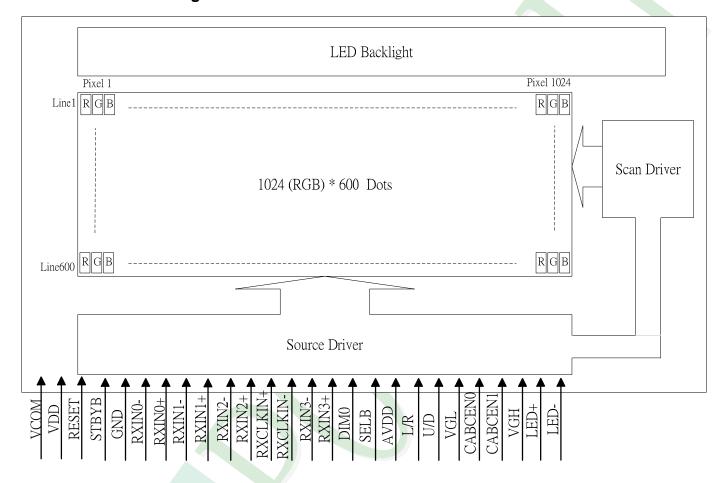
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram





2.2 Interface Pin Description

Pin No.	Symbol	Function
1	VCOM	Common Voltage
2	VDD	Power Voltage for digital circuit
3	VDD	Power Voltage for digital circuit
4	NC	No connection
5	Reset	Global reset pin
6	STBYB	Standby mode, Normally pulled high STBYB = "1", normal operation STBYB = "0", timing controller, source driver will turn off, all output are High-Z
7	GND	Ground
8	RXIN0-	- LVDS differential data input
9	RXIN0+	+ LVDS differential data input
10	GND	Ground
11	RXIN1-	- LVDS differential data input
12	RXIN1+	+ LVDS differential data input
13	GND	Ground
14	RXIN2-	- LVDS differential data input
15	RXIN2+	+ LVDS differential data input
16	GND	Ground
17	RXCLKIN-	- LVDS differential clock input
18	RXCLKIN+	+ LVDS differential clock input
19	GND	Ground
20	RXIN3-	- LVDS differential data input
21	RXIN3+	+ LVDS differential data input
22	GND	Ground
23	NC	No Connection
24	NC	No Connection
25	GND	Ground



Pin No.	Symbol	Function	
26	NC	No Connection	
27	DIM0	Backlight CABC controller signal output DIMO=L Turn off external backlight controller DIMO=H Logical control signal to turn on external backlight controller	
28	SELB	6bit/8bit mode select If LVDS input data is 6 bits ,SELB must be set to High; If LVDS input data is 8 bits ,SELB must be set to Low.	
29	AVDD	Power for Analog Circuit	
30	GND	Ground	
31	LEDK	LED Cathode	
32	LEDK	LED Cathode	
33	L/R	Horizontal inversion When L/R="0", set right to left scan direction. When L/R="1", set left to right scan direction.	
34	U/D	Vertical inversion When U/D="0", set top to bottom scan direction. When U/D="1", set bottom to top scan direction.	
35	VGL	Gate OFF Voltage	
36	CABCEN1	CABC H/W enable Note:1	
37	CABCEN0	CABC H/W enable Note:1	
38	VGH	Gate ON Voltage	
39	LEDA	LED Anode	
40	LEDA	LED Anode	
Note1:			

CABCEN1	CABCEN0	DESCRIPTION
L	L	CABC OFF
L	Н	User interface Image
Н	L	Still Picture
Н	Н	Moving Image

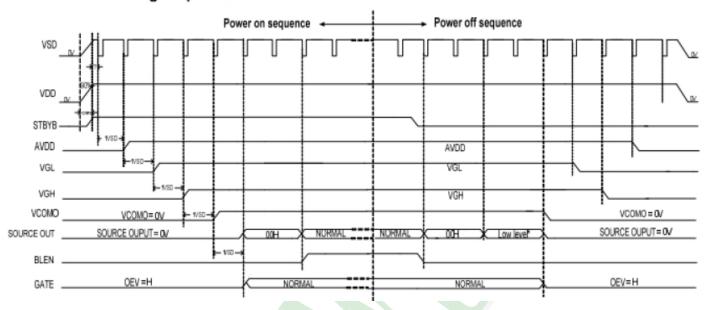


2.3 Timing Characteristics

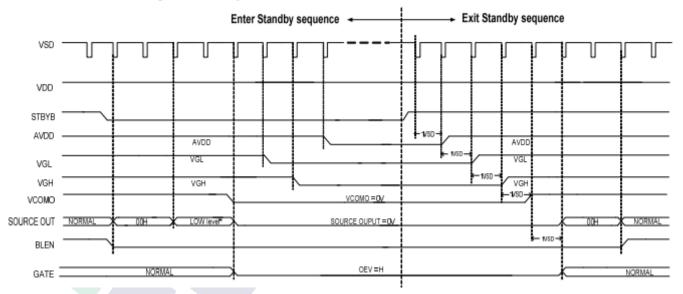
2.3.1 Power Sequence

In order to prevent IC from power on reset fail, the rising time (T_{POR}) of the digital power supply VDD should be maintained within the given specifications. Refer to "AC Characteristics" for more detail on timing.

Power-On/Off Timing Sequence:



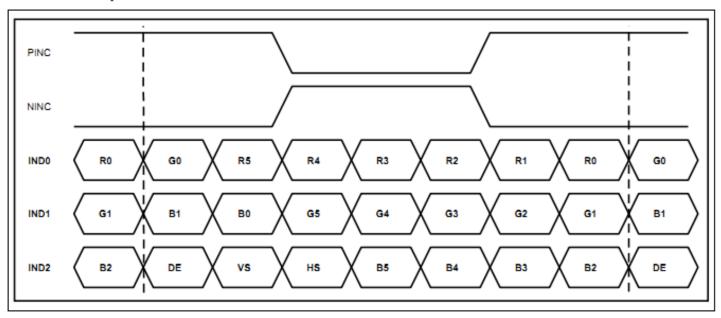
Enter and Exit Standby Mode Sequence:



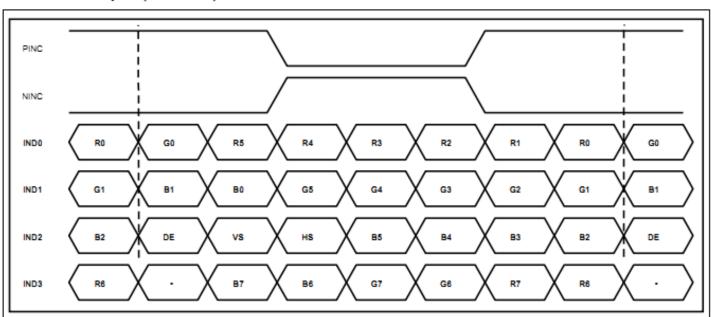


2.3.2 Data Input Format for LVDS

6bit LVDS input



8-bit LVDS input (HSD='L')

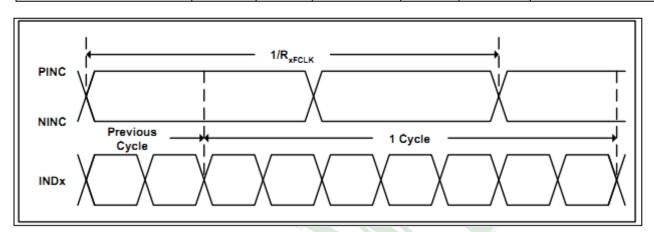




2.4 AC Electrical Characteristics

LVDS mode

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Clock frequency	R _{xFCLK}	20		71	MHz	
Input data skew margin	T _{RSKM}	500			pS	V _{ID} = 400mV R _{XVCM} = 1.2V R _{XFCLK} = 71 MHz
Clock high time	T _{LVCH}		4/(7* R _{xFCLK})		ns	
Clock low time	T _{LVCL}		3/(7* R _{xFCLK})		ns	
PLL wake-up time	TenPLL			150	uS	



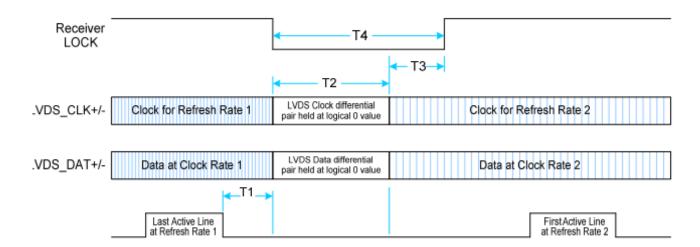




2.5 Timing

SDRRS (seamless display refresh rate switching)

When Showing the still picture, it is accept to reduce the refresh rate from 60Hz to low refresh rate (for example 40Hz). The purpose is mainly for power saving. INTEL defined a timing chart switch between different refresh rate. Following this timing chart, the switch between different refresh rates is seamless for end user.



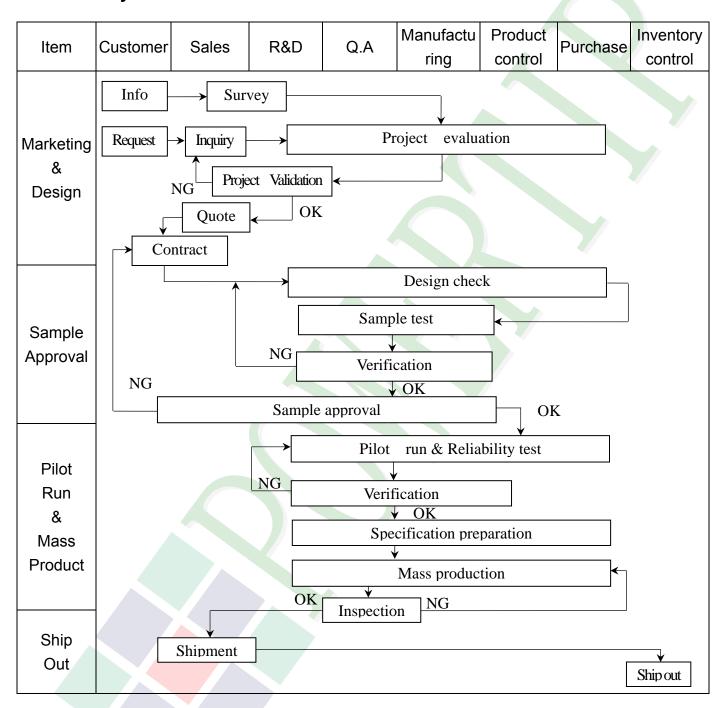
- T1 Min delay from start of vert blank to start of timing change: 2 lines (HSYNC periods)
- T2 Max delay for clock to transition to new frequency: 100us
- T3 Max receiver lock delay from stable clock: Display specific (TBD)
- T4 Max period during which panel maintains display (T2+T3): Display specific (TBD)



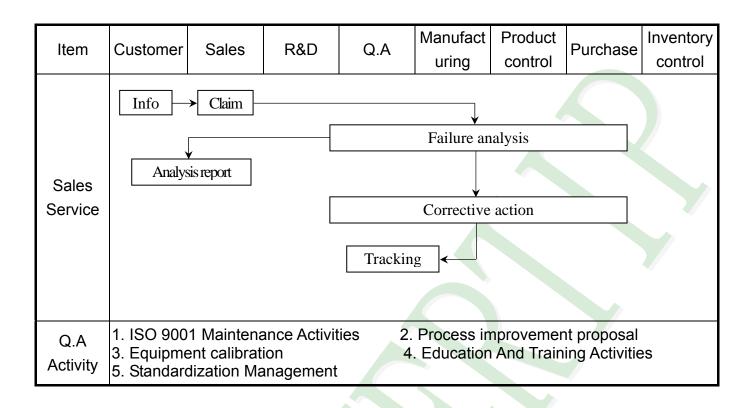


3. QUALITY ASSURANCE SYSTEM

3.1 Quality Assurance Flow Chart









3.2. Inspection Specification

◆Scope: The document shall be applied to TFT-LCD Module for 3.5" -15" (Ver.B01).

◆Inspection Standard: MIL-STD-105E Table Normal Inspection Single Sampling Level II.

◆Equipment: Gauge, MIL-STD, Powertip Tester, Sample

◆Defect Level: Major Defect AQL: 0, 4; Minor Defect AQL: 1, 5

♦OUT Going Defect Level: Sampling.

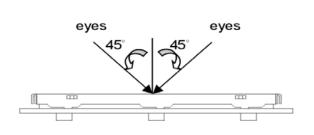
◆Standard of the product appearance test:

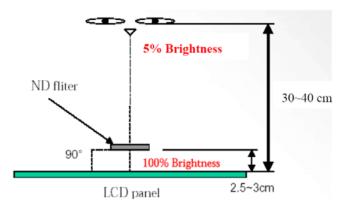
a. Manner of appearance test:

(1). The test best be under 20W×2 fluorescent light(about 300lux ∼500lux)

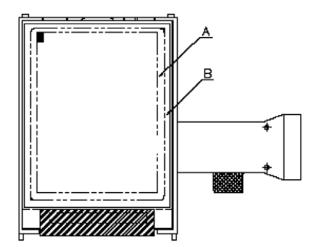
, and distance of view must be at 30~40 cm.

(2). The test direction is base on about around 45° of vertical line.





(3). Definition of area.



A area: viewing area

B area: Outside of viewing area

(4). Standard of inspection: (Unit: mm)



◆Specification For TFT-LCD Module 3.5" ~15" :

NO	Item		Criteri	on		Level
		1. 1The part number is inconsistent with work order of production.				Major
01	Product condition	1. 2 Mixed product types.				
		1. 3 Assembled in inverse direction.				
02	Quantity	2. 1The quantit	y is inconsistent with	work order of producti	on.	Major
03	Outline dimension	3. 1Product dia diagram.	mension and structu	re must conform to str	ructure	Major
		4. 1 Missing lin	e character and icon		I	Major
		4. 2 No function	n or no display.		1	Major
		4. 3 Display malfunction.				
04	Electrical Testing	4. 4 LCD viewing angle defect.				
		4. 5 Current consumption exceeds product specifications.				
		4. 6Mura cannot be seen through 5% ND filter at 50% Gray , should be judged by the viewing angle of 90 degree.				Minor
			Item	Acceptance (Q'ty)		
			Bright Dot	≤ 4		
	Dot defect	Dot	Dark Dot	≦ 5		
	m-1-14 1-4	Defect	Joint Dot	≦ 3		
05	(Bright dot, Dark dot)		Total	≦ 7	1	Minor
On -display 5. 1 Inspection pattern: full white, full blue screens.					en and	
		 5. 2 It is defined as dot defect if defect area >1/2 dot. 5. 3 The distance between two dot defect ≥5 mm. 				
		5. 4 Bright dot	5. 4 Bright dot that can not be seen through 5% ND filter.			



◆Specification For TFT-LCD Module 3, 5" ~15":

NO	Item				Crite	erion			Level
06	Black or white Dot, scratch, contamination Round type X Y Y Y Y Y Y Y Y	6. 2 Lin	Dimensio	Non-display on (diamete $\Phi \leq 0.$ $< \Phi \leq 0.$ $\Phi > 0$ Total $$	r: Φ) 25 50 .50 r displa W 0.03 0.05	Acceptant A area Ignore 5 0 5 0 5 wy): didth (W) $W \le 0.03$ $< W \le 0.05$ $< W \le 0.10$ $W > 0.10$ $W \le 0.05$ $< W \le 0.10$	Acceptance A area Ignore 4 2 As round type 5 Ignore 5 As round type 5 5 S 5 As round Type 5 5 S 5 As round Type 5 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S	<u> </u>	Minor
			Dimension	(diameter:	Ф)	Accepta A area	nce (Q'ty) B are	ea	
				$\Phi \leq 0.25$		Ignore			
07	Polarizer	0.25 <		$\Phi \leq 0.50$	$\Phi \le 0.50$				Minor
	Bubble	0.50 <		$\Phi \leq 0.80$	$\Phi \le 0.80$		Ignore		
				Φ >0.80		0			
			7	Fotal		5			



◆Specification For TFT-LCD Module 3. 5″ ~15″:

Symbols:	
X: The length of crack Z: The thickness of crack X: The width of X: The thickness of crack X: The width of X: The thickness of crack X: The width of X: The thickness of crack X: The width of X: The thickness of crack X: The width of X: The thickness of crack X: The width of X: LCD side length X: The width of X: LCD side length X: The width of X: LCD side length X: The width of X: The width of X: LCD side length X: The width of X: The width of X: LCD side length X: LCD si	gth gth
X Y Z	
≤ a Crack can't enter viewing area ≤1/2 t	
$\leq a \qquad \begin{array}{ c c c c c c c c c c c c c c c c c c c$	≦2 t



◆Specification For TFT-LCD Module 3. 5" ~15":

NO	Item	Criterion				Level	
		Z: The thic	gth of crack ckness of crack ckness of glass ner crack:	W: term	width of crack. ninal length D side length	-	
		X	Y		Z		
		≦1/5 a	Crack can't e viewing are		Z ≤ 1/2 t		
		≤1/5 a	Crack can't exce	1 1 / 7	$t < Z \leq 2 t$		
08	The crack of glass		sion over termin			Minor	
	X Y Z X Y Z						
			X	Y	Z		
		Front		≤ 1/2 W	≦ t		
		Back $\leq a$ $\leq W$ $\leq 1/2 t$					



◆Specification For TFT-LCD Module 3. 5" ~15":

NO	Item	Criterion	Level
08	The crack of glass	Symbols: X: The length of crack Z: The thickness of crack t: The thickness of glass 8. 2. 2 Non-conductive portion: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Minor



◆Specification For TFT-LCD Module 3. 5″ ~15″:

NO	Item	Criterion	Level
		9. 1 Backlight can't work normally.	Major
09	Backlight elements	9, 2 Backlight doesn't light or color is wrong.	Major
		9. 3 Illumination source flickers when lit.	Major
	General appearance	10. 1Pin type \ quantity \ dimension must match type in structure diagram.	Major
		10. 2 No short circuits in components on PCB or FPC.	Major
		10. 3 Parts on PCB or FPC must be: no wrong parts, missing parts or excess parts.	Major
10		10. 4 Product packaging must the same as specified on packaging specification sheet.	Minor
		10. 5 The folding and peeled off in polarizer are not acceptable.	Minor
		10. 6 The PCB or FPC between B/L assembled distance(PCB or FPC) is ≤1.5 mm.	Minor



4. RELIABILITY TEST

(Ver.B01)

TEST ITEM	TEST CONDITION			
High Temperature Storage Test	Keep in 80 ±5°C 240 hrs			
Low Temperature Storage Test	Keep in -30 ±5°C 240 hrs			
High Temperature / High Humidity Storage Test	Keep in 60 °C / 90% R.H duration (Excluding the polarizer)	n for 240 hrs		
Temperature Cycling Storage Test	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
ESD Test	Air Discharge: Apply 2 KV with 5 times Discharge for each polarity +/- 1. Temperature ambiance: 15°C ~35°C 2. Humidity relative: 30% ~60% 3. Energy Storage Capacitance(Cs+Cd): 150pF±10% 4. Discharge Resistance(Rd): 330 Ω±10% 5. Discharge, mode of operation: Single Discharge (time between successive discharges at least 1 sec) (Toloropea if the output voltage indication: ±5%)			
Vibration Test (Packaged)	 Sine wave 10~55 Hz frequency (1 min/sweep) The amplitude of vibration :1. 5 mm Each direction (X \ Y \ Z) duration for 2 Hrs 			
Drop Test (Packaged)	0 ~ 45. 4 45. 4 ~ 90. 8 90. 8 ~ 454 Over 454	122 76 61 46		
	Storage Test Low Temperature Storage Test High Temperature / High Humidity Storage Test Temperature Cycling Storage Test ESD Test Vibration Test (Packaged)	Storage Test Keep in 80 ±5 °C 240 hrs		

OResult Evaluation Criteria:

Under the display quality test conditions with normal operations with normal operation state. Do not change these conditions as such changes may affect practical display function.

(Normal operation state)

Temperature: +20~30°C Humidity: 50~70%

Atmospheric pressure: 86~106Kpa



5. PRECAUTION RELATING PRODUCT HANDLING

5.1 SAFETY

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

5.2 HANDLING

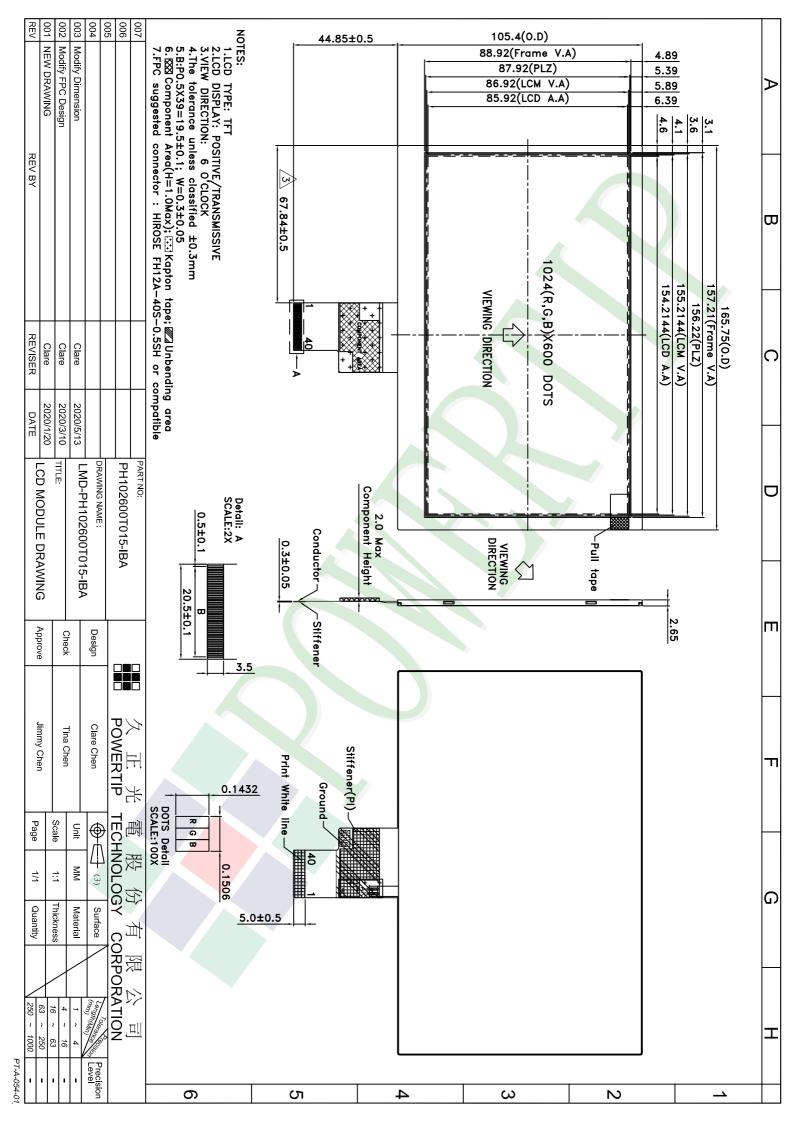
- 5.2.1 Avoid any strong mechanical shock which can break the glass.
- 5.2.2 Avoid static electricity which can damage the CMOS LSI—When working with the module, be sure to ground your body and any electrical equipment you may be using.
- 5.2.3 Do not remove the panel or frame from the module.
- 5.2.4 The polarizing plate of the display is very fragile. So, please handle it very carefully, do not touch, push or rub the exposed polarizing with anything harder than an HB pencil lead (glass, tweezers, etc.)
- 5.2.5 Do not wipe the polarizing plate with a dry cloth, as it may easily scratch the surface of plate.
- 5.2.6 Do not touch the display area with bare hands, this will stain the display area.
- 5.2.7 Do not use ketonics solvent & aromatic solvent. Use with a soft cloth soaked with a cleaning naphtha solvent.
- 5.2.8 To control temperature and time of soldering is $320 \pm 10^{\circ}$ C and 3-5 sec.
- 5.2.9 To avoid liquid (include organic solvent) stained on LCM
- 5.2.10 Caution! (LCM products with Capacitive Touch Panel)
 - Strong EMI-sources such as switch-mode power supplies (SMPS) can lead to touch malfunction (e.g. ghost-touches).
 - Therefore, the touch needs to be thoroughly tested inside the target application.
- 5.2.11 Do not let the LCD screen display static images (text, logos or pictures) for a prolonged period of time to prevent possible image burn-in.

5.3 STORAGE

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

5.4 TERMS OF WARRANTY

- 5.4.1 Applicable warrant period The period is within thirteen months since the date of shipping out under normal using and storage conditions.
- 5.4.2 Unaccepted responsibility
 - This product has been manufactured to your company's specification as a part for use in your company's general electronic products. It is guaranteed to perform according to delivery specifications. For any other use apart from general electronic equipment, we cannot take responsibility if the product is used in nuclear power control equipment, aerospace equipment, fire and security systems or any other applications in which there is a direct risk to human life and where extremely high levels of reliability are required.



Approve Check Contact Ver.001 LCM包裝規格書 Tina Clare Documents NO. PKG-PH102600T015-IBA LCM Packaging Specifications Rex 1.包裝材料規格表 (Packaging Material): (per carton) No. Dimensions (mm) 1Pcs Weight Total Weight Item Model Quantity 1 成品 (LCM) PH102600T015-IBA 165.75 X 105.4 0.0989 120 11.868 2 靜電袋(1)Antistatic Bag BAG240170ARABA 240 X 170 0.0048 120 0.576 3 氣泡袋(2)Bubble Bag 170 X 150 60 0.27 BAG170150BRABA 0.0045 4 A9隔板(3)A9 Partition 245 X 125 X 4 0.0204 BX0000000058 64 1.3056 5 B9隔板(4)B9 Partition BX0000000057 295 X 125 X 4 0.0209 8 0.1672 8 6 290 X 240 X 10 海綿墊(5)Foam Rubber Cushion OTFOAM00006ABA 0.02 0.16 7 C5內盒(6)Product Box BX0000000059 310 X 255 X 155 0.248 4 0.992 8 外紙箱(7)Carton BX52732536CCBA 527 X 325 X 360 0.83 1 0.83 9 保麗龍板(8)Polylon board OTPLB00000017 510 X 310 X 15 0.025 3 0.075 2. 整箱總重量 (Total LCD Weight in carton): 16.24 Kg±10% 3.單箱數量規格表 (Packaging Specifications and Quantity): (1)Quantity Of Spacer: A9隔板 X 16 ,B9隔板 X 2 (2)Total LCM quantity in carton: quantity per box 30 x no of boxes = 120 (5) 海綿墊 Foam Rubber Cushion (1)靜電袋+(2)氣泡袋+LCM Antistatic Bag+Bubble Bag+LCM (8)保麗龍板 Polylon board (3)(4)隔板 Partition (註 Remark 1) (5) 海綿墊 Foam Rubber Cushion (7)外紙箱 Carton (6) C5內盒 Product Box 事 項 (REMARK) 4. LCM排放示意圖(前後間隔不放置): 模組以靜電袋包妥,FPC反折再模組背面 4. LCM placed as figure showing: 2片用靜電袋包好后模組放入1個氣泡袋 (First and last slot should be empty) 類類(LCM) X 2pcs.