SP	FC	IF	ICA <sup>T</sup>	$\Gamma$	NS
JE	-	' <b>   </b>			110

CUSTOMER . PTC

SAMPLE CODE . SH480272T005-IBA03

MASS PRODUCTION CODE . PH480272T005-IBA03

SAMPLE VERSION . 01

SPECIFICATIONS EDITION . 002

DRAWING NO. (Ver.) . JLMD-PH480272T005-IBA03\_002

PACKAGING NO. (Ver.) . JPKG-PH480272T005-IBA03\_001

# **Customer Approved**

Date:

Approved	Checked	Designer
閆偉	劉進	徐明菲

- □ Preliminary specification for design input
- Specification for sample approval

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# **History of Version**

Date (mm / dd / yyyy)	Ver.	Edi.	Description	Page	Design by
01/23/2019	01	001	New Drawing	-	徐明菲
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Total: 30 Pages



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Appendix: 1. LCM Drawing

2. LCM Packaging

Note: For detailed information please refer to IC data sheet:Sitronix--- ST7257



## 1. SPECIFICATIONS

### 1.1 Features

Item	Standard Value
Display Type	480 * 3 (RGB) * 272 Dots
LCD Type	a-Si TFT , Normally white, Transmissive type
Screen size(inch)	4.3 inch
Viewing Direction	6 O'clock
Color configuration	RGB-Strip
Interface	Digital 24-bits RGB
Other(controller/driver IC)	ST7257
	THIS PRODUCT CONFORMS THE ROHS OF PTC
ROHS	Detail information please refer website :
	http://www.powertip.com.tw/news.php?area_id_view=1085560481/

# 1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	105.5(W) x 67.2 (L) x 3.57(H)	mm
Viewing Area	96.64(W) x 55.456 (L)	mm
Active Area	95.04 (W) * 53.856 (L)	mm

Note: For detailed information please refer to LCM drawing



# 1.3 Absolute Maximum Ratings

### **Module**

Item	Symbol	Condition	Min.	Max.	Unit
System Power Supply Voltage	VDDIO	GND=0	-0.3	+4.6	V
Operating Temperature	T <sub>OP</sub>	-	-20	+70	°C
Storage Temperature	T <sub>ST</sub>	-	-30	+80	°C
Storage Humidity	H <sub>D</sub>	Ta ≤ 60 °C	-	90	%RH

## 1.4 DC Electrical Characteristics

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

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
	VDDIO	-	3.0	3.3	3.6	V
Power supply	VGH	-	13	15	17.5	V
	VGL	4	-11.5	-10	-7	V
"H" Input Voltage	VIH		0.7* VDDIO	-	VDDIO	V
"L" Input Voltage	VIL	7-111	GND	-	0.3* VDDIO	V
"H" Output Voltage	VOH	-	VDDIO -0.4	-	VDDIO	V
"L" Output Voltage	VOL	-	GND	-	GND +0.4	V
Supply Current	IDD	VDDIO=3.3V	-	25	40	mA





# 1.5 Optical Characteristics

## **TFT LCD Module**

VDDIO= 3.3 V, Ta=25°C

Item		Symbol	Condition	Min.	Тур.	Max.	unit	-
Response time	Tr+Tf	25°C	-	-	36	54	ms	-
	Тор	θΥ+		-	60	-		
Viouing angle	Bottom	θΥ-	CR ≥ 10	-	60	-	Dog	Note 4
Viewing angle	Left	θX-	CR 2 10	1	60	-	Deg.	Note 4
	Right	θΧ+		-	60	-		
Contrast rati	0	CR		500	600	-	-	Note 3
	White	Х		0.26	0.31	0.36		
	VVIIILE	Y		0.29	0.34	0.39		
Color of CIE	Red	X		0.55	0.60	0.65		
Color of CIE Coordinate		Y	IF= 20mA	0.31	0.36	0.41		Note1
(B/L & LCD)	Croon	Х		0.29	0.34	0.39	_	Note i
(B/L & LOD)	Green	Y		0.55	0.60	0.65		
	Blue	Х		0.10	0.15	0.20		
	Diue	Υ		0.04	0.09	0.14		
Average Brightness								
Pattern=white display		IV	IF= 20mA	450	550	-	cd/m2	Note1
(B/L & LCD)*1								
Uniformity (B/L & LCD)*	2	ΔΒ	IF= 20mA	70	-	_	%	Note1



#### Note 1:

\*1 : △B=B(min) / B(max) \* 100%

\*2 : Measurement Condition for Optical Characteristics:

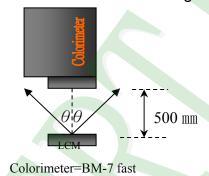
a: Environment: 25°C±5°C / 60±20%R.H, no wind, dark room below 10 Lux at typical lamp current and typical operating frequency.

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%





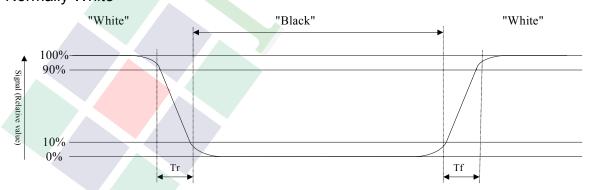
To be measured at the center area of panel with a viewing cone of 1° by Topcon luminance meter BM-7, after 10 minutes operation (module)

### 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.

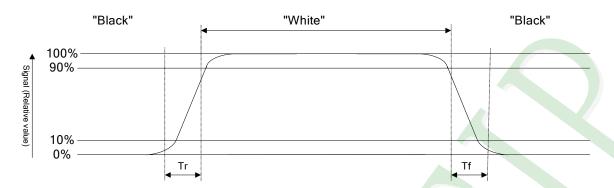
### Refer to figure as below:

### Normally White





## Normally Black



Note3: Definition of contrast ratio:

Contrast ratio is calculated with the following formula

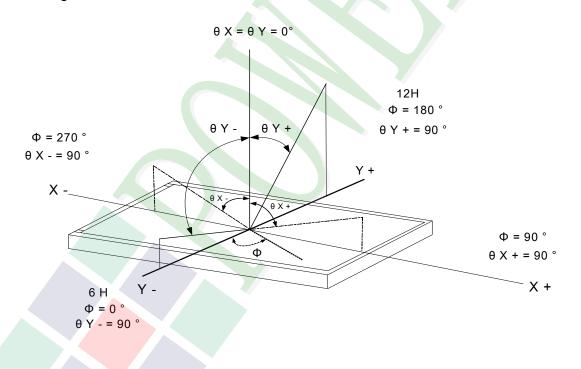
Photo detector output when LCD is at "White" state

Contrast ratio (CR) =

Photo detector output when LCD is at "Black" state

Note4: Definition of viewing angle:

Refer to figure as below:





# 1.6 Backlight Characteristics

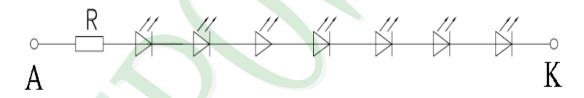
**Maximum Ratings** 

Item	Symbol	Conditions	Min.	Max.	Unit
LED Forward Current	IF	Ta =25°℃	-	30	mA
LED Reverse Voltage (Each LED)	VR	Ta =25°ℂ		5.0	V
Power Dissipation	PD	Ta =25°℃	-	490	mW

Electrical / Optical Characteristics

=100tilloai / Optiloai Oliaiaot						
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF		19.6	22.8	24.5	V
Average Brightness (Without LCD &T/P)	IV	IF= 20mA	8500	9350	-	cd/m <sup>2</sup>
CIE Color Coordinate	X		0.26	0.30	0.33	
(Without LCD &T/P)	Y		0.26	0.30	0.33	_
Color			White			

## Circuit diagram:



Other Description

Item	Conditions	Description
Life Time	Ta =25°C IF= 20 mA	20000 hrs



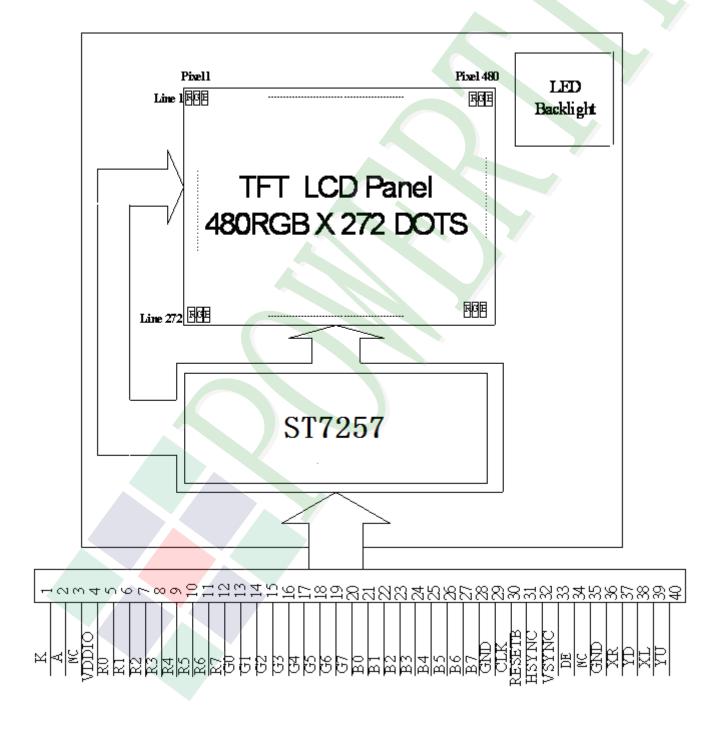
## 2. MODULE STRUCTURE

## 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	K	Power supply for LED Backlight cathode input
2	А	Power supply for LED Backlight anode input
3	NC	Not Connect.
4	VDDIO	Digital power
5	R0	Red data bit 0
6	R1	Red data bit 1
7	R2	Red data bit 2
8	R3	Red data bit 3
9	R4	Red data bit 4
10	R5	Red data bit 5
11	R6	Red data bit 6
12	R7	Red data bit 7
13	G0	Green data bit 0
14	G1	Green data bit 1
15	G2	Green data bit 2
16	G3	Green data bit 3
17	G4	Green data bit 4
18	G5	Green data bit 5
19	G6	Green data bit 6
20	G7	Green data bit 7

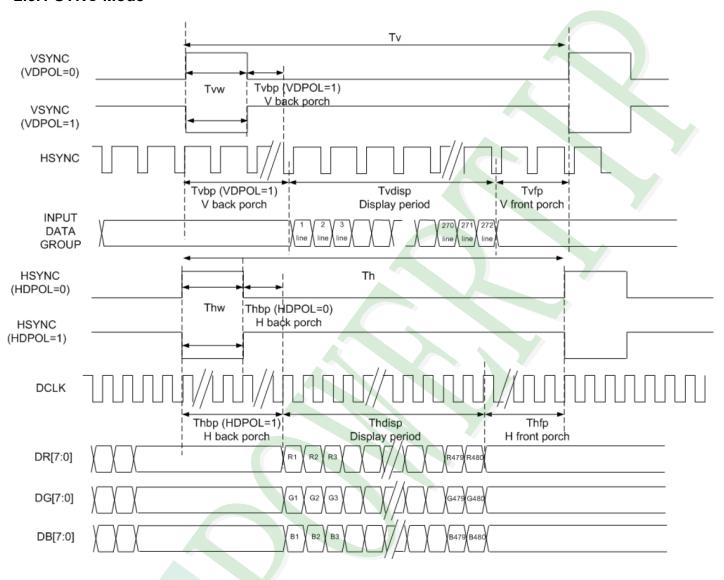


Pin No.	Symbol	Function
21	В0	Blue data bit 0
22	B1	Blue data bit 1
23	B2	Blue data bit 2
24	В3	Blue data bit 3
25	B4	Blue data bit 4
26	B5	Blue data bit 5
27	В6	Blue data bit 6
28	В7	Blue data bit 7
29	GND	Ground
30	CLK	Dot data clock
31	RESETB	Active low global reset signal input.
32	HSYNC	Horizontal sync input
33	VSYNC	Vertical sync input
34	DE	Data input enable. Active High to enable the data input.  If not used, please leave it floating.
35	NC	Not Connect.
36	GND	Ground
37	XR	Not Connect.
38	YD	Not Connect.
39	XL	Not Connect.
40	YU	Not Connect.



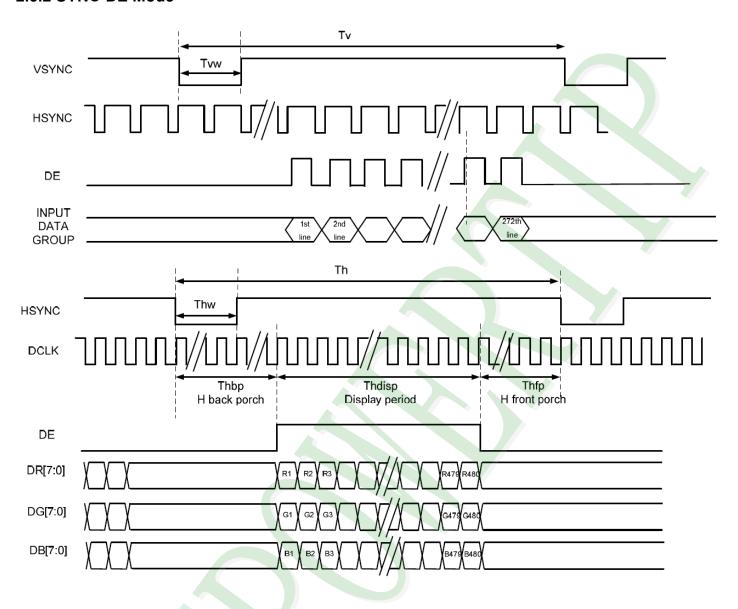
## 2.3 Timing Characteristics

### 2.3.1 SYNC Mode



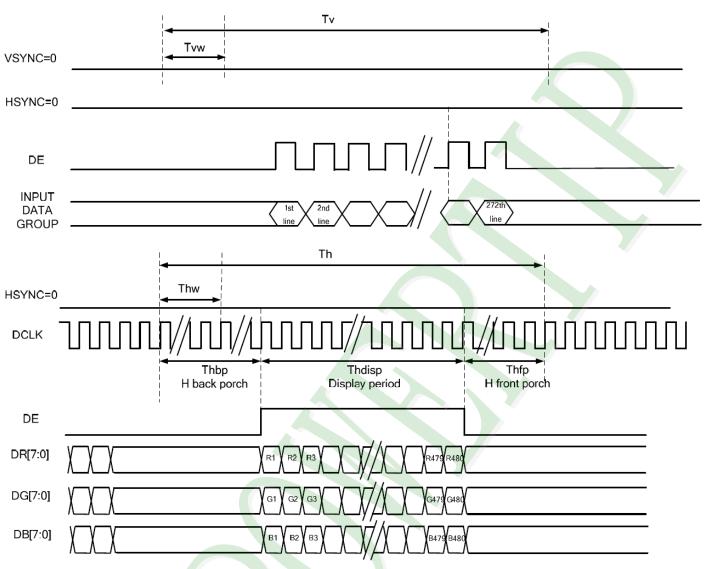


### 2.3.2 SYNC-DE Mode





### **2.3.3 DE Mode**





## 2.3.4 Parallel 24-bit RGB Input Timing Table

	480RGB X 272 Resolution Timing Table									
	Item	Symbol	Min.	Тур.	Max.	Unit	Remark			
DCLK Fred	quency	Fclk	8	9	12	MHz				
DCLK Peri	od	Tclk	83	111	125	ns				
HSYNC	Period Time	Th	485	531	598	DCLK				
	Display Period	Thdisp		480		DCLK				
	Back Porch	Thbp	3	43	43	DCLK	By H_Blanking setting			
	Front Porch	Thfp	2	8	75	DCLK				
	Pulse Width	Thw	2	4	75	DCLK				
VSYNC	Period Time	Tv	276	292	321	Н				
	Display Period	Tvdisp		272		Н				
	Back Porch	Tvbp	2	12	12	H	By V_Blanking setting			
	Front Porch	Tvfp	2	8	37	Ι				
	Pulse Width	Tvw	2	4	37	Н	·			

Note: It is necessary to keep Tvbp =12 and Thbp =43 in sync mode. DE mode is unnecessary to keep it.

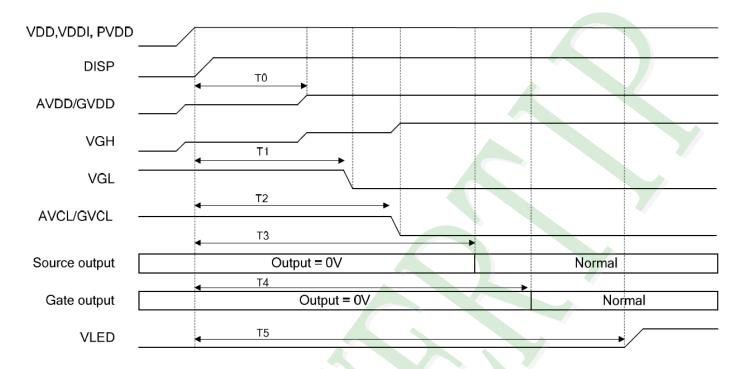
	480RGB X 240 Resolution Timing Table									
	Item	Symbol	Min.	Тур.	Max.	Unit	Remark			
DCLK Fred	quency	Fclk	8	9	12	MHz				
DCLK Peri	od	Tclk	83	111	125	ns				
HSYNC	Period Time	Th	485	531	598	DCLK				
	Display Period	Thdisp		480		DCLK				
	Back Porch	Thbp	3	43	43	DCLK	By H_Blanking setting			
	Front Porch	Thfp	2	8	75	DCLK				
	Pulse W <mark>idth</mark>	Thw	2	4	75	DCLK				
VSYNC	Period Time	Tv	244	260	321	Н				
	Display Period	Tvdisp		240		Н				
	Back Porch	Tvbp	2	12	12	Н	By V_Blanking setting			
	Front Porch	Tvfp	2	8	37	Н				
	Pulse Width	Tvw	2	4	37	Н				

Note: It is necessary to keep Tvbp =12 and Thbp =43 in sync mode. DE mode is unnecessary to keep it.



### 2.3.5 Power Sequence

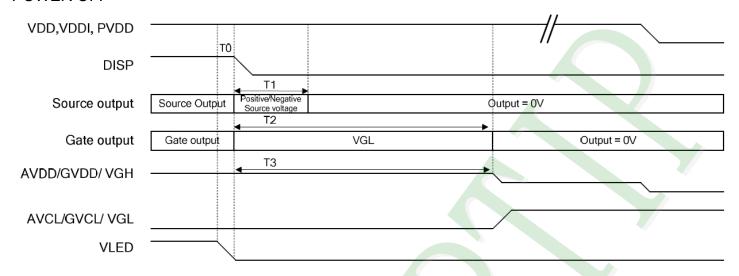
## POWER ON



Symbol	Description	Min. Time	Unit
T0	DISP="High" to AVDD/GVDD voltage stability	40	ms
T1	DISP="High" to VGL voltage stability	50	ms
T2	DISP="High" to AVCL/GVCL stability	70	ms
Т3	DISP="High" to Source output	100	ms
T4	DISP="High" to Gate output	110	ms
T5	Black Turn on	130	ms



### **POWER OFF**



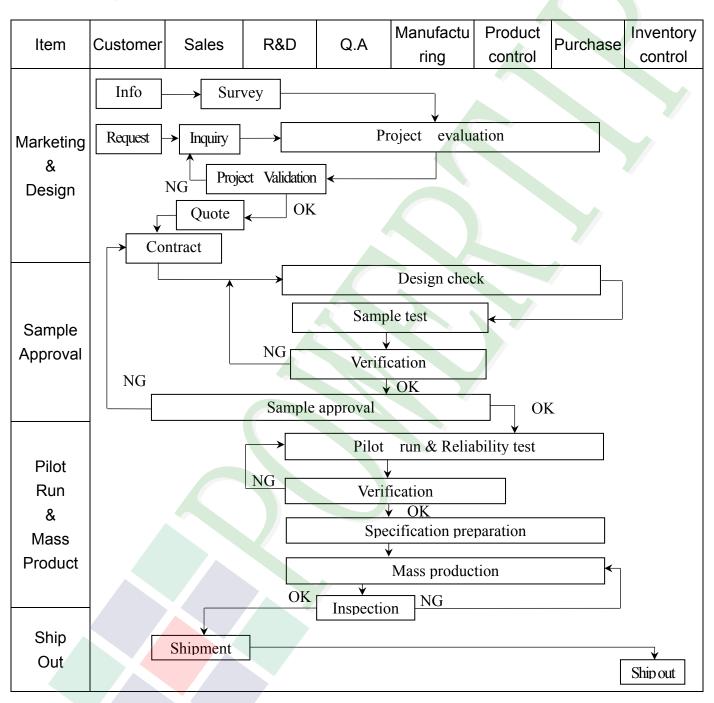
Symbol	Description	Min. Time	Unit
T0	Backlight turn off to DISP="Low"	5	ms
T1	DISP="Low" to Source output disable	20	ms
T2	DISP="Low" to Gate output disable	50	ms
T3	DISP="Low" to Gate output disable	50	ms



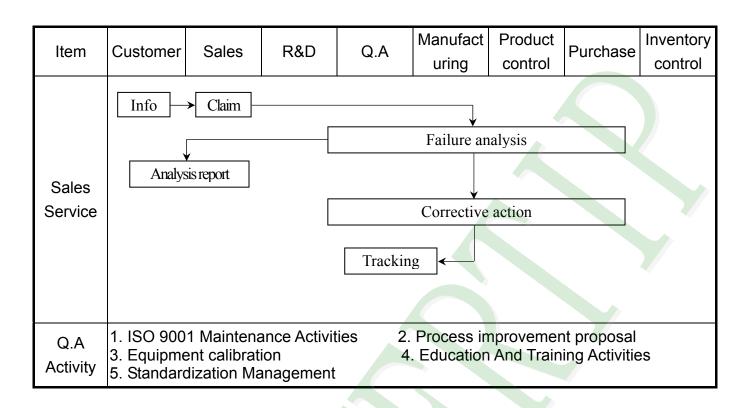


### 3. QUALITY ASSURANCE SYSTEM

## 3.1 Quality Assurance Flow Chart



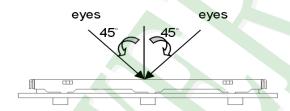




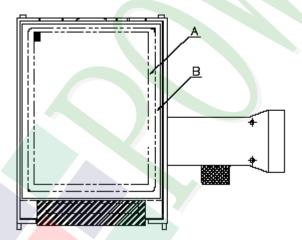


### 3.2 Inspection Specification

- ♦ 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, and distance of view must be at 30 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	Criterion					
		. 1The part number is inconsistent with work order of production.					
01	Product condition	1. 2 Mixed product types.	Major				
		1. 3 Assembled in inverse direction.	Major				
02	Quantity	2. 1The quantity is inconsistent with work order of production.	Major				
03	Outline dimension	3. 1 Product dimension and structure must conform to structure diagram.	Major				
		4. 1 Missing line character and icon.	Major				
		4. 2 No function or no display.	Major				
	Electrical Testing	4. 3 Display malfunction.					
04		4. 4 LCD viewing angle defect.					
		4. 5 Current consumption exceeds product specifications.					
		4. 6 Mura can not be seen through 5% ND filter. (Mura: Under the normal examination angle of view,the picture has the non-uniform phenomenon.)					
		Item Acceptance (Q'ty)					
		Bright Dot ≤ 4					
	Dot defect	Dot Dark Dot ≤ 5					
		Defect   Joint Dot   ≤ 3					
05	(Bright dot \ Dark dot)	Total $\leq 7$	Minor				
	On -display	<ul> <li>5. 1 Inspection pattern: full white, full black, Red, Green and blue screens.</li> <li>5. 2 It is defined as dot defect if defect area &gt;1/2 dot.</li> </ul>					
		5. 3 The distance between two dot defect ≥5 mm.					
		5.4 Bright dot that can not be seen through 5% ND filter.					



## **♦**Specification For TFT-LCD Module 3. 5″ ~15″:

NO	Item	Criterion						Level		
		6. 1 Ro	6. 1 Round type ( Non-display or display) :							
			Dimension (diameter · $\Psi$ )			Acceptar A area	nce (Q'ty)  B area			
	Black or white			$\Phi \leq 0$ .	.25	Ignore				
	dot > scratch >		0.25	$<\Phi\leq0.$	50	5	Lanone			
	contamination			$\Phi > 0$	.50	0	Ignore			
	Round type			Total		5				
	$\rightarrow X \leftarrow \downarrow$	6. 2 Liı	ne type( No	on-display o	or displ	ay) :				
	<u>Y</u>	mo	dule size	Length	W	idth (W)	Acceptanc	· · · · ·		
06	'			(L)		$W \leq 0.03$	A area Ignore	B area	Minor	
	$\Phi = (x+y)/2$			L ≤10.0	0.03	$\frac{\text{W} \leq 0.05}{\text{< W} \leq 0.05}$	4			
	Line type	2 522		L ≦5.0		$<$ W $\leq$ 0.10	2	T		
						W >0.10	As round	Ignore		
					Total		type	-		
	✓ Ť W				Total	$W \le 0.05$	5 Ignore			
	→ı <sub>L</sub>			L ≤10.0	0.05		5			
		9"	' to 15"		0.00	W > 0.10	As round type	Ignore		
					Total		5			
						Acconto	nce (Q'ty)			
		I	Dimension	(diameter :	Φ)	A area	B are	ea		
		X		$\Phi \leq 0.25$		Ignore				
07	Polarizer			$0.25 < \Phi \leq 0.50$		4			Minor	
	Bubble		$0.50 < \Phi \leq 0.80$			1	Igno	re		
				Φ > 0.80	0	0				
			7	Total		5				



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

NO	Item	Criterion		Level	
		Z: The thickness of crack	Y : The width of crack. W : terminal length a : LCD side length		
	8. 1 General glass chip: 8. 1. 1 Chip on panel surface and crack between panel				
		Z Z	Z		
08	The crack of glass	SP Y [OK]	SP [NG]	Minor	
		Seal width Z	Y		
		X Y	z		
		≤ a Crack can't enter viewing area	≦1/2 t		
		≤ a Crack can't exceed the half of SP width.	1/2 t < Z ≤2 t		



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

NO	Item		Criterion						
		Symbols:  X: The length of crack Z: The thickness of crack t: The thickness of glass  Y: The width of crack W: terminal length a: LCD side length							
		8. 1. 2 Corner crack:							
		X	Y		Z				
		≤1/5 a	Crack can't e		Z ≤ 1/2 t				
		≤1/5 a	Crack can't exce		$t < Z \leq 2 t$				
08	The quark of glass				_	Minan			
00	The crack of glass		sion over termin			Minor			
		8. 2. 1 Chi	p on electrode y		Z				
				X	W				
	X		X Y Z						
		Front	≦ a	≤ 1/2 W	<b>≦</b> t				
		Back	≤ a	<b>≦ W</b>	≤ 1/2 t				



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

NO	Item	Criterion				
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:  X  X  X  X  X  X  X  X  X  X  X  X  X	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	10. 1 Pin 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 the same as on the production characteristic chart . There should 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

## 4.1 Reliability Test Condition

4.1	Reliability lest Co	iluluoli			(vei.bui)			
NO.	TEST ITEM		TEST CO	NDITION				
1	High Temperature	Keep in +80 ±2°C 240 hrs						
1	Storage Test		Surrounding temperature, then storage at normal condition 4hrs.					
2	Low Temperature	-	±2℃ 240 hrs					
	Storage Test			rage at normal conditio	n 4hrs.			
	High Temperature /	-	°C / 90% R.H duration					
3	High Humidity		· .	rage at normal conditio	n 4hrs.			
	Storage Test	(Excluding	the polarizer)	200				
				→ +80°C → +25°C				
4	<b>Temperature Cycling</b>		(30mins) (5mins)	(30mins) (5mins)				
-	Storage Test		20 C	ycle				
		Surroundin	g temperature, then sto	rage at normal conditio	n 4hrs.			
		Air Dischar	ge:	<b>Contact Discharge:</b>				
	ESD Test	Apply 2 KV	with 5 times	Apply 250 V with 5 tin	nes			
		Discharge fo	rity +/-					
		1. Temperature ambiance : 15°C ~35°C						
5		2. Humidity relative: 30%~60%						
	ESD Test	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						
			if the output voltage ind	•				
	Vibration Test		we $10\sim55$ Hz frequency	• • • • • • • • • • • • • • • • • • • •				
6	(Packaged)	2. The amplitude of vibration :1.5 mm						
	( 0 /	3. Each di	rection $(X \cdot Y \cdot Z)$ dur	ation for 2 Hrs				
			Packing Weight (Kg)	Drop Height (cm)				
			0 ~ 45.4	122				
_	Drop Test		45.4 ~ 90.8	76				
7	(Packaged)		90.8 ~ 454	61				
			0ver 454	46				
		D 5:		/0.1	!			
		Drop Direct	tion : $lpha$ 1 corner / $3$ edge	es / b sides each ltime				



## 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±10°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.

#### **5.3 STORAGE**

- 5.3.1 Store the panel or module in a dark place where the temperature is  $25^{\circ}$ C  $\pm 5^{\circ}$ 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

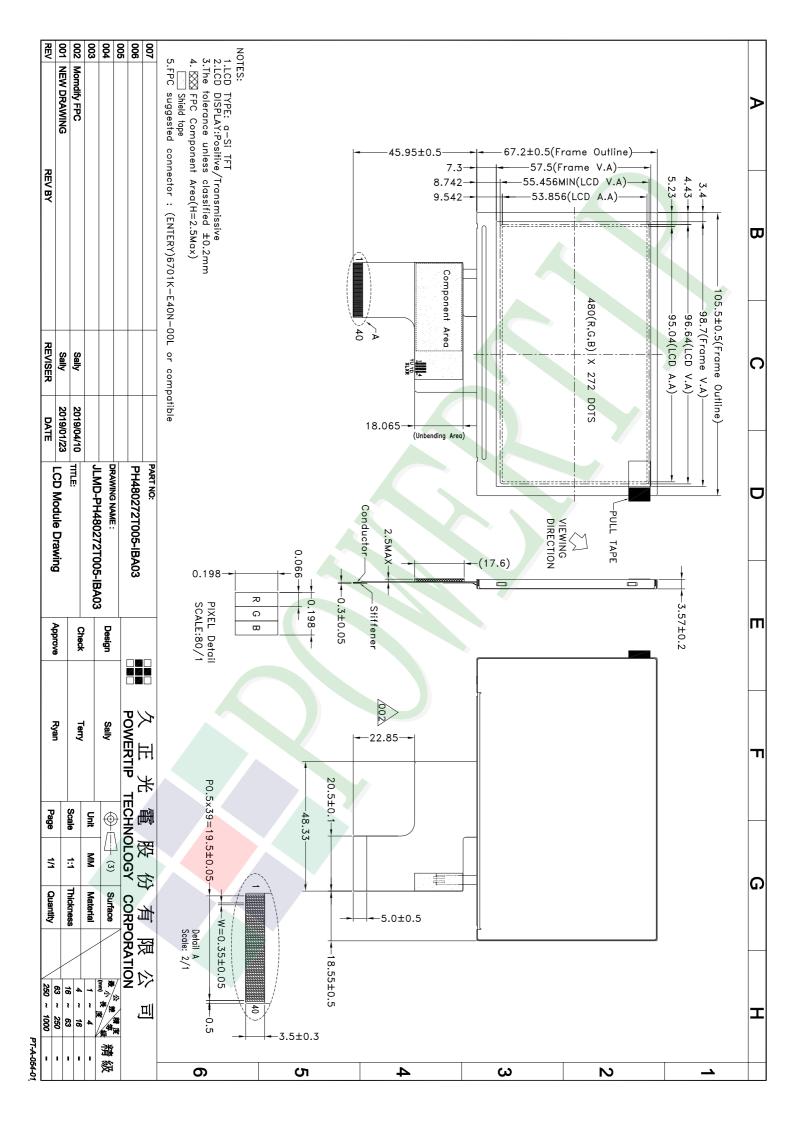
  The period is within thirteen months since the date of shipping out under normal using and storage conditions.
- 5.4.2 Unaccepted responsibility

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

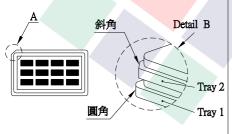


systems or any other applications in which there is a direct risk to human life and where extremely high levels of reliability are required.





#### Approve Check Contact Ver.001 LCM包裝規格書 LCM Packaging Specifications Ryan Documents NO. JPKG-PH480272T005-IBA03 Terry Sally (For Tray) 1.包裝材料規格表 (Packaging Material): (per carton) Item 1Pcs Weight Total Weight No. Dimensions (mm) Quantity 成品 (LCM) PH480272T005-IBA03 105.5 X 67.2 X 3.57 144 1 0.05 7.2 2 6 多層薄膜(1)POF OTFILM0BA03ABA 19"X350X0.015 352 X 260 X 13.05 3 TRAY 盤 (2)Tray TYSG000000202 42 4.2 0.1 4 内盒(3)Product Box BX36627063ABBA 383 X 270 X 66 0.182 6 1.092 OTPLB00PL08ABA 2 5 550 X 393 X 20 0.0284 0.0568 保利龍板(4)Polylon board 6 外紙箱(5)Carton BX57041027CCBA 570 X 410 X 265 1.0 1 1.0 7 8 9 2. 一整箱總重量 (Total LCD Weight in carton): 3.單箱數量規格表 (Packaging Specifications and Quantity): (1)LCM quantity per box: no per tray x no of tray 6 24 (2) Total LCM quantity in carton: quantity per box x no of boxes 144 24 6 (4)保利龍板 Polylon board Use empty tray 空盤 (1)多層薄膜 POF Put products into the tray (2)TRAY 盤 (4)保利龍板 Tray Polylon board 仆 (3)内盒 Tray stacking Product Box (5)外紙箱 Carton 特 記 事 項 (REMARK) 斜角 Detail B



4.TRAY盤相疊時,需旋轉180度,請詳見B視圖 Rotate tray 180 degrees and place on top of stack. Check the tray stack using Fig. B.