SD	FC	IFI	CAT	NC
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CUSTOMER . CDE012

SAMPLE CODE . SH480272T009-IHA

MASS PRODUCTION CODE . PH480272T009-IHA

SAMPLE VERSION . 01

SPECIFICATIONS EDITION . 002

DRAWING NO. (Ver.) . JLMD- PH480272T009-IHA_001

PACKAGING NO. (Ver.) . JPKG- PH480272T009-IHA_001

Customer Approved

Date:

POWERTIP 2016.12.07

Approved	Checked	Designer
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- ☐ 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
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12/05/2016	01	002	New Sample	-	徐明菲
					>

Total: 29 Page



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Appendix: 1. LCM Drawing

2. LCM Packaging

Note: For detailed information please refer to IC data sheet:ILITEK--- ILI6480B



1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Resolution	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
Surface treatment	Anti-Glare
Color configuration	R.G.B. Vertical Stripe
Weight	42 g
Interface	24 Bits RGB Interface
Driver IC	ILI6480B
	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) * 67.2 (L) * 2.6 (H)	mm

LCD panel

Item	Standard Value	Unit
Active Area	95.040 (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
Power Supply for TFT Panel	V_{DD}	GND=0V	-0.3	4.5	V
Power Supply for Backlight Unit	Vcc	GND=0V	-0.3	+20.0	V
Operating Temperature	Тор	-	-20	+70	°C
Storage Temperature	T _{ST}	-	-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.

1.4 DC Electrical Characteristics

Module GND = 0V, Ta = 25°C

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply for TFT Panel	V_{DD}	GND=0V	3.0	3.3	3.6	V
Power Supply for Backlight Unit	Vcc	GND=0V	5	12	15	V
Input Voltage for TFT	VIH	GND=0V	$0.7V_{DD}$	-	V_{DD}	٧
Panel	VIL	GND=0V	0	-	0.3V _{DD}	V
Supply Current for TFT Panel	l _{DD}	IDD@VDD=3.3V	-	23	40	mA
Supply Current for Backlight Unit	lcc	Icc@Vcc=5V	-	180	300	mA
Supply Current for Backlight Unit	Icc	Icc@Vcc=12V	-	70	120	mA
Input Voltage for	V _{PH}	GND=0V	1.2	-	-	V
PWM Signal	V _P L	GND=0V	-	-	0.4	V
Dimming Clock Rate	fP	GND=0V	5	-	100	KHz



1.5 Optical Characteristics

VDD=3.3V, Ta=25°C

Item		Symbol	Condition	Min.	Тур.	Max.	unit	-
Response time		Tr + Tf	-	-	29	44	ms	Note2
	Тор	θ+		-	60	5-		
Viouing angle	Bottom	θ-	OD > 40	-	60	-	Dog	Note 4
Viewing angle	Left	θL	CR ≥ 10	-	60	1	Deg.	Note4
	Right	θR		-	60	1		
Contrast rati	0	CR	-	500	600	ı	-	Note3
	White	X		0.25	0.30	0.35		
	vvriite	Υ	VCC=12V PWM="High" (Duty=100%)	0.27	0.32	0.37	_	
	Red	Х		0.52	0.57	0.62		
Color of CIE Coordinate	Red	Y		0.28	0.33	0.38		
(LCD & BL)	Croop	Х		0.29	0.34	0.39		
,	Green	Υ	(Buty=10070)	0.55	0.60	0.65		
	Blue	Х		0.09	0.15	0.19		Note1
	blue	Y		0.02	0.07	0.12		
Average Brightness								
Pattern=white display		IV	VCC=12V	800	1000	_	cd/m ²	
(LCD & BL) *1			PWM="High"					
Uniformity (LCD & BL)		∆B	(Duty=100%)	70	-	-	%	



Note 1:

*1 : △B=B(min) / B(max) * 100%

*2 : Measurement Condition for Optical Characteristics:

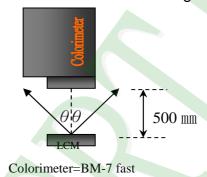
a : Environment: 25°C±5°C / 60±20%R.H , no wind , dark room below 10 Lux at typical lamp current and typical operating frequency.

b : Measurement Distance: 500 \pm 50 mm \rightarrow (θ = 0°)

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.

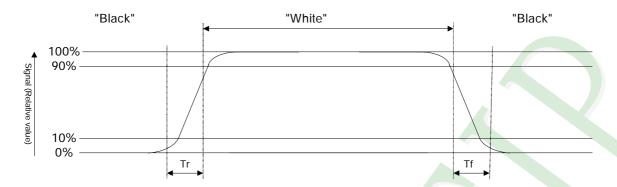
Refer to figure as below:

Normally White





Normally Black



Note3: Definition of contrast ratio:

Contrast ratio is calculated with the following formula

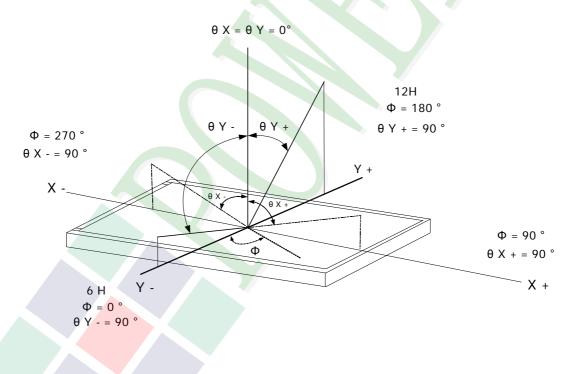
Photo detector output when LCD is at "White" state

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

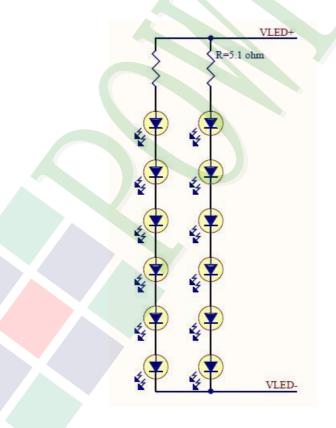
Item	Symbol	Min.	Max.	Unit	Remark
LED Forward Current	lf	30		mA	One LED
LED Reverse Voltage	V_{R}	5		٧	One LED

Electrical / Optical Characteristics

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
LED Voltage	VL	17.6	19.2	20.4	V	Note1
LED Current	lι	-	40	-	mA	<u>-</u>
LED life time	-	50000		-	HR	Note2

Note 1: The LED Supply Voltage is defined by the number of LED at Ta=25°C and I∟=40 mA.

Note 2: The "LED life time" is defined as the module brightness decrease to 50% original brightness at Ta=25°C and I_L =40 mA. The LED life time could be decreased if operating I_L is larger than 40 mA.





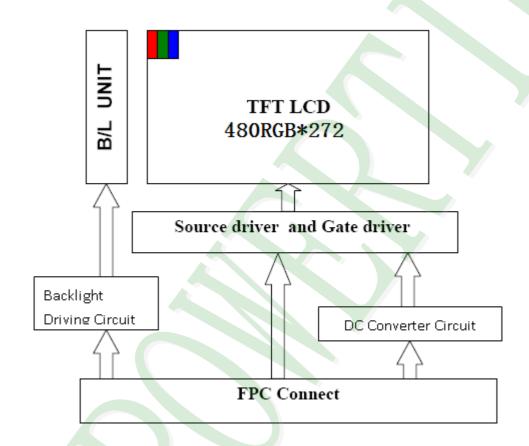
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram





2.2 Interface Pin Description

TFT LCM Interface

Pin#	Name	DESCRIPTION
1	GND	Power ground.
2	VDD	Power for Digital Circuit.
3	VDD	Power for Digital Circuit.
4	VCC	Power For LED backlight.
5	VCC	Power For LED backlight.
6	PWM	Shutdown & Dimming control input for backlight. Do not allow this pin to float. "Hi" =100%, "Low" = 0%.
7	GND	Power ground.
8	R0	Red Data.
9	R1	Red Data.
10	R2	Red Data.
11	R3	Red Data.
12	GND	Power ground.
13	R4	Red Data.
14	R5	Red Data.
15	R6	Red Data.
16	R7	Red Data.
17	GND	Power ground.
18	G0	Green Data.
19	G1	Green Data.
20	G2	Green Data.
21	G3	Green Data.
22	GND	Power ground.
23	G4	Green Data.
24	G5	Green Data.
25	G6	Green Data.
26	G7	Green Data.
27	GND	Power ground.
28	В0	Blue Data.
29	B1	Blue Data.

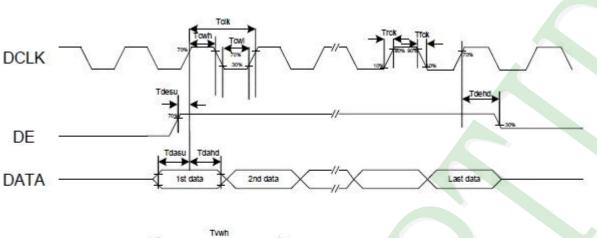


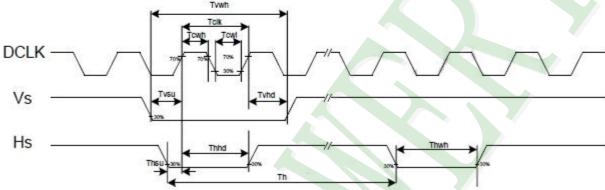
Pin#	Name	DESCRIPTION
30	B2	Blue Data.
31	В3	Blue Data.
32	GND	Power ground.
33	B4	Blue Data.
34	B5	Blue Data.
35	B6	Blue Data.
36	B7	Blue Data.
37	GND	Power ground.
38	HS	Line synchronization signal. Horizontal Sync Input.
39	VS	Frame synchronization signal. Vertical Sync Input.
40	GND	Power ground.
41	DE	Display enable pin from controller. Data Input Enable.
42	GND	Power ground.
43	DCLK	Sample clock. Data will be latched at the falling edge of DCLK.
44	GND	Power ground.
45	CS(NC) / ID1	No Function./ ID[4:1]These pins select LCM type.
46	SDIN(NC) / ID2	No Function./ ID[4:1]These pins select LCM type.
47	SCK(NC) / ID3	No Function ./ ID[4:1]These pins select LCM type.
48	DISPLAY CONTROL/ID4	Display Enable(Hi Active)./ ID[4:1]These pins select LCM type.
49	/RESET	Global Reset (Low Active).
50	GND	Power ground.



2.3 Timing Characteristics

2.3.1 Clock and Data Input Waveforms





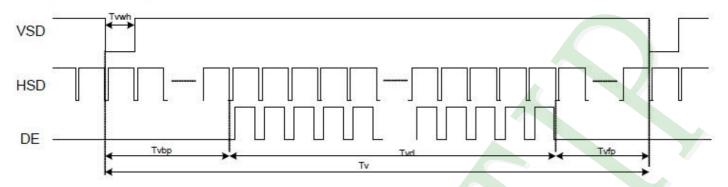


Parameters	Symbol	Min.	Тур.	Max.	Unit	Conditions
System operation timing						
VDD power source slew time	TPOR	-	-	20	ms	From 0V to 99% VDD
GRB pulse width	tRSTW	10	50	-	us	R=10Kohm, C=1uF
Input Output timing	•					
DCLK clock time	Tclk	33.3	-	-	ns	DCLK=30MHz
DCLK clock low period	Tcwl	40	-	60	%	
DCLK clock high period	Tcwh	40	-	60	%	
Clock rising time	Trck	9	-	-	ns	-
Clock falling time	Tfck	9	-	-	ns	
HSD width	Thwh	1	-	-/ (DCLK	
HSD period time	Th	55	60	65	us	
HSD setup time	Thsu	12	-		ns	
HSD hold time	Thhd	12	-	-	ns	
VSD width	Tvwh	1	-	-	Th	
VSD setup time	Tvsu	12	-	1-	ns	
VSD hold time	Tvhd	12		-	ns	
Data setup time	Tdasu	12	- 1	-	ns	
Data hold time	Tdahd	12	-		ns	
DE setup time	Tdesu	12	-	-	ns	Y
DE hold time	Tdehd	12	·	-	ns	
Source output setting time	Tsst			TBD	us	10% to 90% CL=60pF, RL=2Kohm
Gate output setting time	Tgst	-	-	TBD	ns	10% to 90%, CL=60pF
VCOM output setting time	Tcst	-	-	TBD	us	10% to 90%, CL=40nF, RL=50ohm
Time from VSD to 1st line data input	Tvs	3	8	31	Th	HV mode By HDL[4:0] setting

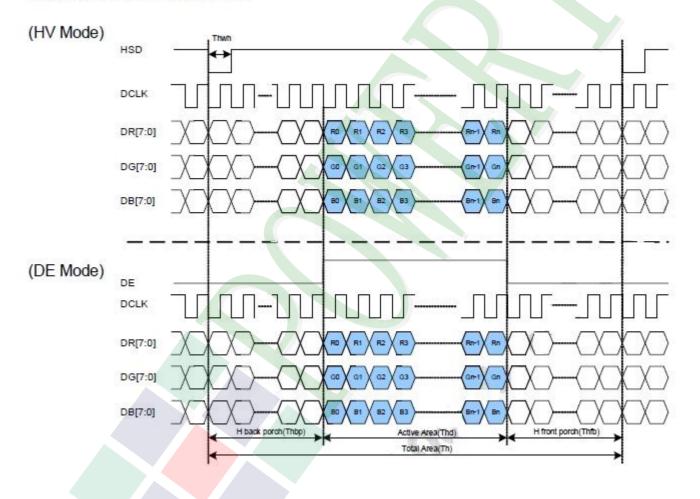


2.3.2 Data Input Format

Vertical input timing



Parallel RGB Mode Data format



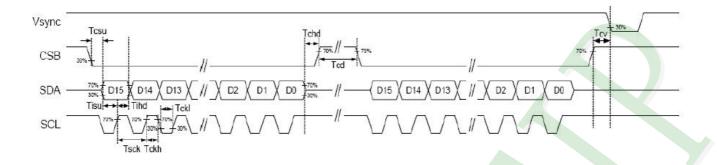


Parallel RGB input timign table

Parameters	Symbol		Value		
		Min.	Тур.	Max.	
DCLK frequency	Fclk	5	9	12	MHz
VS period time	Tv	277	288	400	Н
VS display area	Tvd		272		Н
VS back porch	Tvb	3	8	31	Н
VS front porch	Tvfp	2	8	97	Н
HS period time	Th	520	525	800	DCLK
HS display area	Thd		480		DCLK
HS back porch	Thbp	36	40	255	DCLK
HS front porch	Thfp	4	5	65	DCLK



2.3.3 3-wire Timing Diagram

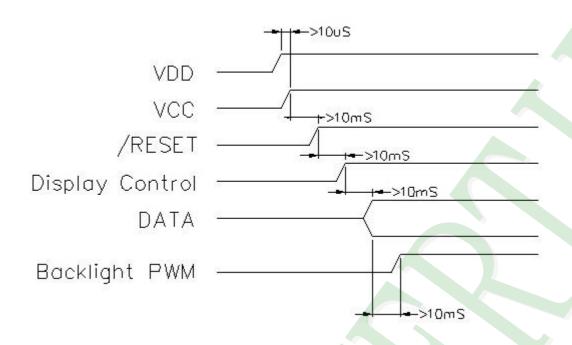


3-wire serial communication AC timing						
Serial clock	Tsck	200	-	- /	ns	For SCL Pin
SCL pulse low period	Tckl	40	-	60	%	
SCL pulse high period	Tckh	40		60	%	
Serial data setup time	Tisu	50	-	-	ns	
Serial data hold time	Tihd	50	ŀ	-	ns	
Serial clock high/low	Tssw	50	,	-	ns	
CS to VSD	Tcv	1			us	
CS distinguish time	Tcd	400		-	ns	
CS input setup time	Tcsu	50	-	-	ns	
CS input hold time	Tchd	50	-	-	ns	

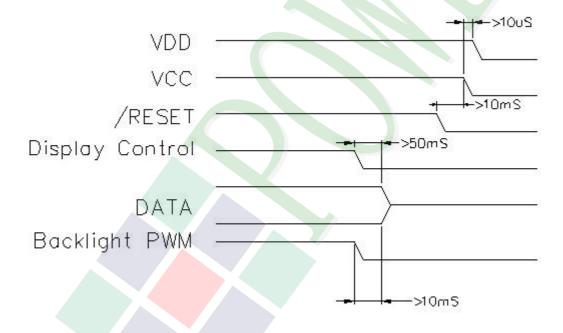


2.3.4 Power Sequence

POWER ON



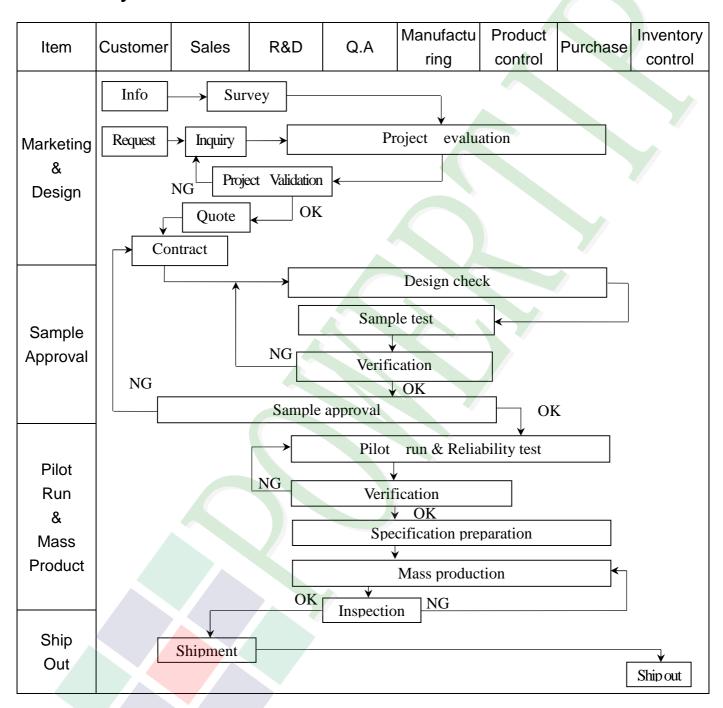
POWER OFF



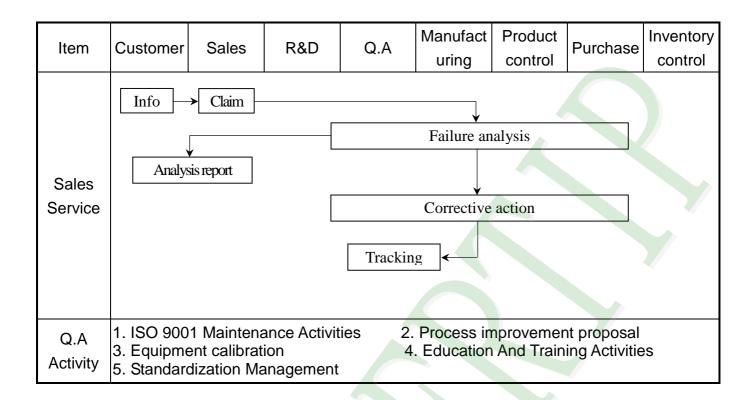


3. QUALITY ASSURANCE SYSTEM

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

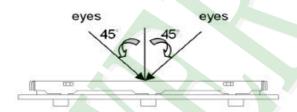
◆Defect Level: Major Defect AQL: 0.4; Minor Defect AQL: 1.5

♦OUT Going Defect Level: Sampling.

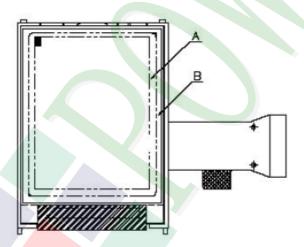
◆Standard of the product appearance test:

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":

(Ver.B01)

NO	Item	Criterion				
	Product condition	1. 1 The part number is inconsistent with work order of production.				
01		1. 2 Mixed product types.				
		1, 3 Assembled in inverse direction.				
02	Quantity	2. 1The quantity is inconsistent with work order of production.				
03	Outline dimension	3. 1 Product dimension and structure must conform to structure diagram.				
		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 (Bright dot \ Dark dot) On -display	Dot Dark Dot ≤ 5				
		Defect Joint Dot ≤ 3				
05		Total ≤ 7	Minor			
		 5. 1 Inspection pattern: full white, full black, Red, Green and blue screens. 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 that can not be seen through 5% ND filter. 	Willion			



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

(Ver.B01)

Black or white lot \ scratch \ contamination Round type	0.25	Non-display on (diameter $\Phi \le 0.25$ $< \Phi \le 0.50$ $\Phi > 0.5$ Total	: Ф) - 5		ace (Q'ty) B area		
$ \begin{array}{c c} & X & \downarrow \\ \hline & Y \\ \hline & W \\ \hline & Y \\ \hline & W \\ \hline & Y \\ \hline & Y \\ \hline & W \\ \hline & Y \\ \hline & Y \\ \hline & W \\ \hline & Y \\ & Y \\ \hline & Y \\ \hline & Y \\ &$	module size 3.5" to less 9"	Length (L) L ≤ 10.0 L ≤ 5.0	Wi-	$\begin{array}{c} \text{dth (W)} \\ \text{W} \leq 0.03 \\ \text{CW} \leq 0.05 \\ \text{CW} \leq 0.10 \\ \text{W} > 0.10 \\ \end{array}$	Acceptance A area Ignore 4 2 As round type 5 Ignore 5 As round type 5		Minor
	Dimension		Φ)	A area		ea	
Polarizer	0.25 <		5	4			Minor
Bubble	0.50 <	$\Phi \le 0.80$		1	Ignore		
					- 24		1
	► L W	Polarizer Bubble Polarizer Bubble	$\begin{array}{c c} & & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & &$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



◆Specification For TFT-LCD Module 3. 5″ ~15″: (Ve					
NO	Item	Criterion	Level		
		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 General glass chip: 8. 1. 1 Chip on panel surface and crack between panels:			
08	The crack of glass	Seal width	Minor		
		X Y Z			
		≤ a Crack can't enter viewing area ≤1/2 t			
		\leq a Crack can't exceed the half of SP width. 1/2 t < Z \leq 2 t			



Specification For TFT-LCD Module 3, 5" ~15": (Ver.B01) Item Criterion Level Symbols: X: The length of crack Y: The width of crack. Z: The thickness of crack W: terminal length t: The thickness of glass a: LCD side length 8.1.2 Corner crack: X Y Z Crack can't enter ≤1/5 a $Z \leq 1/2 t$ viewing area Crack can't exceed the ≤1/5 a $1/2 t < Z \leq 2 t$ half of SP width. 08 The crack of glass Minor 8.2 Protrusion over terminal: 8.2.1 Chip on electrode pad: X Y Z $\leq 1/2 \text{ W}$ ≦ t Front ≦ a \leq W $\leq 1/2 t$ Back ≦ a



Specification For TFT-LCD Module 3, 5" ~15": (Ver.B01) NO Criterion Level Item Symbols: X: The length of crack Y: The width of crack. Z: The thickness of crack W: terminal length t: The thickness of glass a: LCD side length 8.2.2 Non-conductive portion: X Y Z $\leq \mathbf{W}$ $\leq 1/3$ a ≤t The crack of 08 Minor glass ⊙ If the chipped area touches the ITO terminal, over 2/3 of the ITO must remain and be inspected according to electrode terminal specifications. 8. 2. 3 Glass remain: Y X Z ≤ 1/3 W ≤ a ≦t 8.2.4 Cracking Not Allowed



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

(Ver.B01)

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
	diagram. 10. 2 No short cir 10. 3 Parts on production parts, miss General appearance 10. 4 Product pace specification 10. 5 The folding	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

(Ver.B01)

NO.	TEST ITEM	TEST CONDITION				
1	High Temperature Storage Test	Keep in +80 ±2°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.				
2	Low Temperature Storage Test	Keep in -30 ±2°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.				
3	High Temperature / High Humidity Storage Test	Keep in +60 °C / 90% R.H duration for 96 hrs Surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer)				
4	Temperature Cycling Storage Test	$-30^{\circ}\mathbb{C} \rightarrow +25^{\circ}\mathbb{C} \rightarrow +80^{\circ}\mathbb{C} \rightarrow +25^{\circ}\mathbb{C}$ (30mins) (5mins) (30mins) (5mins)				
5	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) (Tolerance if the output voltage indication: ±5%)				
6	Vibration Test (Packaged)	 Sine wave 10~55 Hz frequency (1 min/sweep) The amplitude of vibration :1.5 mm Each direction (X \cdot Y \cdot Z) duration for 2 Hrs 				
7	Drop Test (Packaged)	Packing Weight (Kg) 0 ~ 45.4 45.4 ~ 90.8 90.8 ~ 454 Over 454 Drop Direction : **1 corner / 3 edg	122 76 61 46			



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.

5.3 STORAGE

- 5.3.1 Store the panel or module in a dark place where the temperature is 25°C ±5°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.

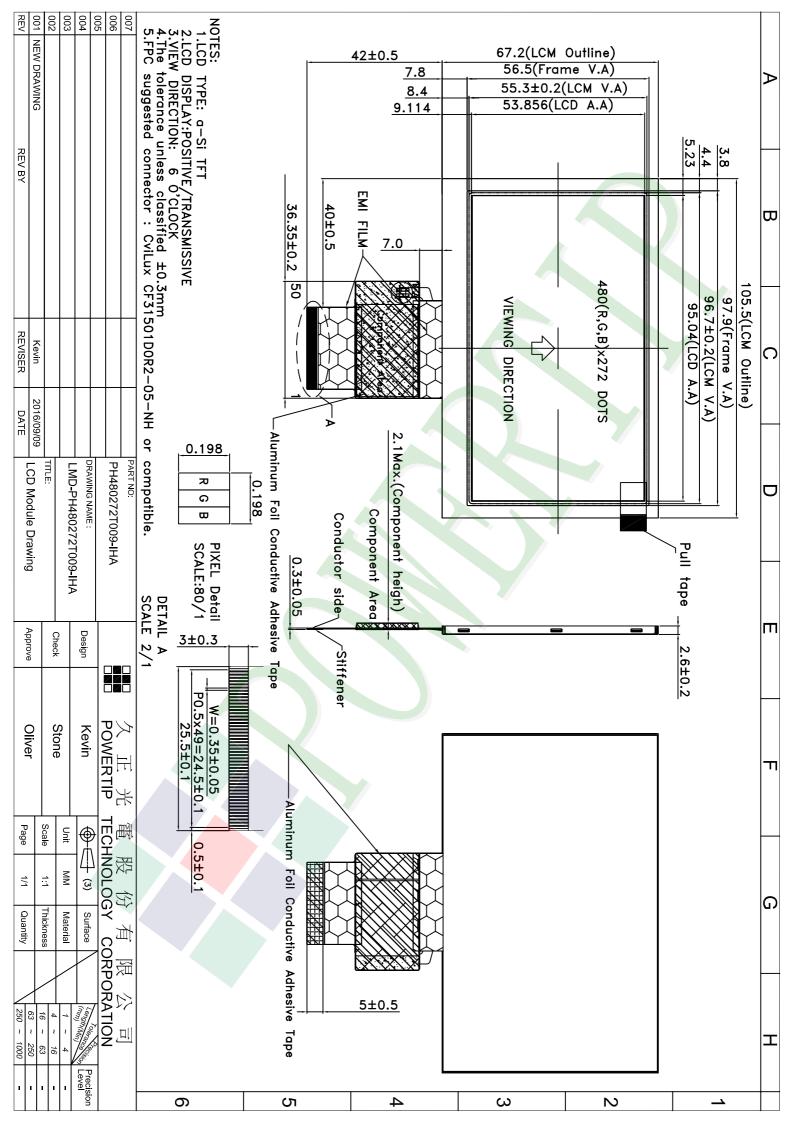
5.4 TERMS OF WARRANTY

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-PH480272T009-IHA 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 1 成品 (LCM) PH480272T009-IHA 105.5 X 67.2 X 2.6 216 0.042 9.072 2 多層薄膜(1)POF 19"X350X0.015 6 OTFILM0BA03ABA 3 352 X 260 X 2.6 TRAY 盤 (2)Tray TY00000000392 60 0.1 6.0 4 内盒(3)Product Box BX36627063ABBA 6 383 X 270 X 66 0.182 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 9 36 (2) Total LCM quantity in carton: quantity per box x no of boxes 36 6 216 (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) Detail B

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