SPECIFICATIONS	SPI	ECI	<b>FIC</b>	<b>ATI</b>	OI	NS
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CUSTOMER . PTC

SAMPLE CODE : SH128800T004-ZZA01

MASS PRODUCTION CODE . PH128800T004-ZZA01

SAMPLE VERSION . 04

SPECIFICATIONS EDITION . 013

DRAWING NO. (Ver.) . JLMD-PH128800T004-ZZA01\_006

PACKAGING NO. (Ver.) . JPKG-PH128800T004-ZZA01\_001

## **Customer Approved**

Date:

POWERTIP
2022.10.21

JS RD APPROVED

Approved	Checked	Designer
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☐ Preliminary specification for design input

Specification for sample approval

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## **History of Version**

<u>Date</u>	<u>Ver.</u>	Edi.	<u>Description</u>	<u>Page</u>	Design by
01/30/2018	01	001	New Drawing.	-	陳璐
06/07/2018	01	002	New Sample	-	陳璐
06/28/2018	01	003	Add Power Consumption	5	陳璐
02/22/2019	01	004	Modify RELIABILITY TEST	27	陳璐
06/14/2019	01	005	Modify Inspection Specification	20~21	陳璐
06/26/2019	01	006	Modify Interface Timings	16	陳璐
07/03/2019	01	007	Modify Interface Timings	16	陳璐
07/12/2019	01	008	Modify Interface Timings	16	陳璐
11/29/2019	02	009	Modify LCM Drawing	Appendix	陳璐
04/03/2020	03	010	Add TAPE	Appendix	陳璐
08/03/2021	03	011	Add Pixel Pitch	Appendix	陳璐
05/20/2022	04	012	Modify IC of BL Circuit	5,6	陳璐
10/21/2022	04	013	Modify LCM Mechanical Diagram  Modify PIN 27  Update Power Supply Characteristics	9 10 12	陳璐
		X			

Total: 28 Page



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Appendix : 1. LCM Drawing.

2. Packaging



## 1. SPECIFICATIONS

## 1.1 Features

<u>ltem</u>	Standard Value				
Screen size(Inch)	10.1(Diagonal)				
Resolution	1280* (R · G · B) * 800 Dots				
Display mode	Transmissive, Normally Black				
Color	16.7M				
Interface	8 bit LVDS				
	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

<u>ltem</u>	Standard Value	<u>Unit</u>
Outline Dimension	229.8(W) * 149 (L) * 10.0 (H)Max	mm

## LCD panel

<u>ltem</u>	<u>Standard Value</u>	<u>Unit</u>
Active Area	216.96 (W) * 135.60 (L)	mm

Note: For detailed information please refer to LCM drawing.





## 1.3 Absolute Maximum Ratings

<u>ltem</u>	<u>Symbol</u>	<u>Condition</u>	<u>Min.</u>	Max.	<u>Unit</u>
Power Supply Voltage	VDD	1	-0.3	+4.0	V
Power Supply Voltage	LED_VCC	-	-0.3	+27	V
Operating Temperature	Top (Ts)	Note 1	-30	+80	$^{\circ}\!\mathbb{C}$
Storage Temperature	T <sub>ST</sub> (Ta)	Note 2	-30	+80	$^{\circ}\!\mathbb{C}$
Storage Humidity	H <sub>D</sub>	Ta<60 ℃	10	90	%RH

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

<u>lte</u>	<u>em</u>	<u>Symbol</u>	Condition	Min.	Typ.	Max.	<u>Unit</u>
• •	y Voltage for Oriver	VDD		2.75	3.3	3.6	V
Power Supply Voltage for LED Driver		LED_VCC	-	8.0	12.0	15.0	V
Power Sup	ply Current	IDD	VDD=3.3V	-	400	600	mA
Power Supply Current For LED Driver		ILED_VCC	LED_VCC =12V	-	650	700	mA
Power Col	nsumption ch Panel)	Pd	VDD=3.3V LED_VCC =12V	-	ı	1.98+8.4	W
PWM Signal	High	VPWM	-	1.9	-	-	V
Voltage	Low	VIVIVI	-	-	-	0.8	V
LED Enable	High	VLED_EN	-	1.9	-	-	V
Voltage	Low	VLLD_LIV	-	-	-	0.8	V
LED PWM	Frequency	Fрwм	-	100	-	20000	Hz



## 1.5 Optical Characteristics

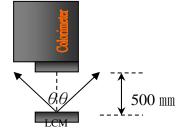
TFT LCD Panel Ta=25°C

<u>ltem</u>		Symbol	Condition	Min.	Typ.	Max.	<u>Unit</u>	=
Response tim	ne	Tr + Tf	-	-	25	50	ms	Note2
	Тор	ΘΥ+		-	85	-		
Viowing angle	Bottom	ΘΥ-	CR ≥ 10	-	85	-	Dog	Note4
Viewing angle	Left	ΘХ-	CR 2 10	-	85	1	Deg.	Note4
	Right	ΘХ+		-	85	1		
Contrast rati	0	CR		600	800	-	1	Note3
	White	X		0.25	0.30	0.35		
	IE Red	Υ		0.30	0.35	0.40		
0.1(015		X		0.55	0.60	0.65		
Color of CIE			Υ	If=200mA	0.29	0.34	0.39	
Coordinate (With B/L)	Green	Х		0.27	0.32	0.37	-	Note1
(VVIIII B/L)	Green	Y		0.54	0.59	0.64		
	Blue	Х		0.10	0.15	0.20		
	Diue	Y		0.10	0.15	0.20		
Average Brightr	ness							
Pattern=white display		IV	If=200mA	730	1000	-	cd/m2	Note1
(With B/L)								
Luminance unifo	rmity	YU	-	70	-	-	%	Note1

#### Note1:

- $1 : \triangle B=B(min) / B(max) \times 100\%$
- 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%





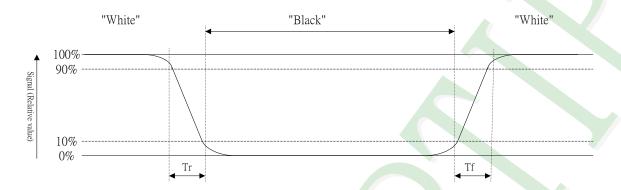
Colorimeter=BM-7 fast



#### 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:



Note3: Definition of contrast ratio:

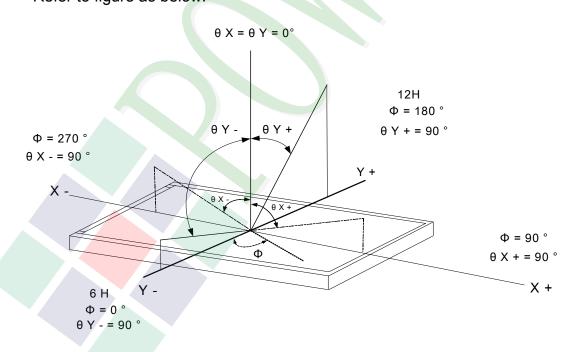
Contrast ratio is calculated with the following formula

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

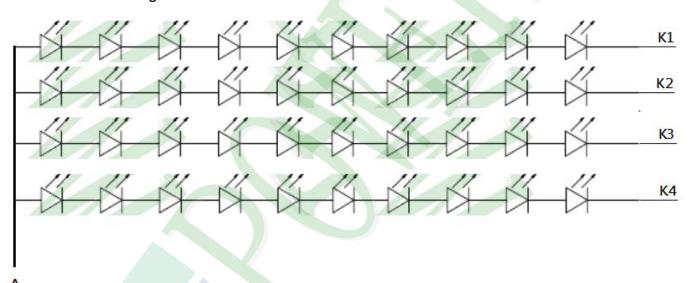
Maximum Ratings

<u>ltem</u>	<u>Symbol</u>	Conditions	Min.	<u>Typ.</u>	Max.	<u>Unit</u>
Power Dissipation	Pd		-	-	306	mW
LED Forward Current	IF	1 LED	-		90	mA
LED Reverse Voltage	VR		-	<b>/</b> -	0.5	V

**Electrical / Optical Characteristics** 

<u>ltem</u>	Symbol	Conditions	Min.	<u> Typ.</u>	Max.	<u>Unit</u>
Voltage for LED Backlight	VF	If=200mA	26	28	30	V
Current for LED Backlight	IF	11-200111A	-	200	-	mA
Color	White					

## Internal Circuit Diagram



Other Description

<u>ltem</u>	Conditions	<u>Description</u>
Life Time	Ta =25°C IF= 200mA	70000 hrs

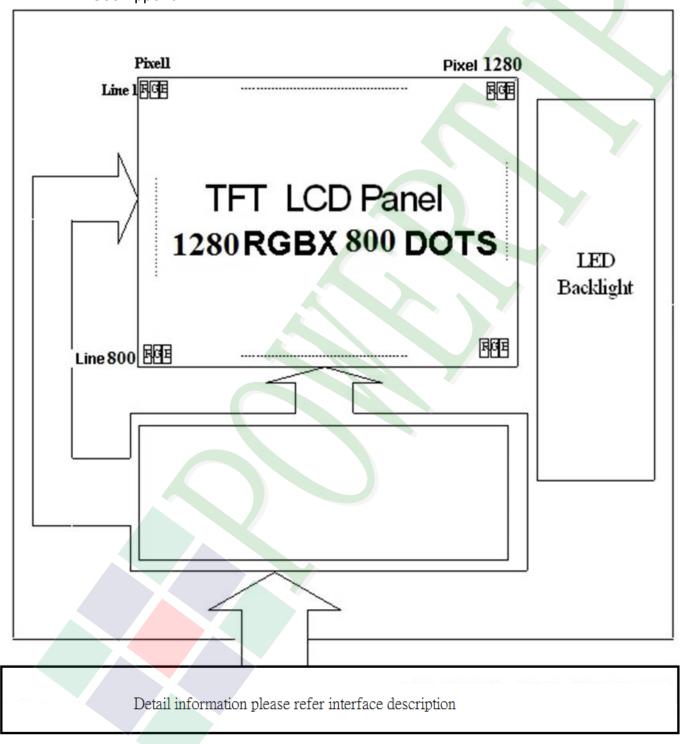


## 2. MODULE STRUCTURE

## 2.1 Counter Drawing

## 2.1.1 LCM Mechanical Diagram

\* See Appendix



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## 2.2 Interface Pin Description

Pin No.	<u>Symbol</u>	<u>Description</u>
1	NC	No Connection.
2	VDD	Power Supply.
3	VDD	Power Supply.
4	NC	No Connection.
5	NC	No Connection.
6	NC	No Connection.
7	NC	No Connection.
8	LV0N	-LVDS Differential Data Input.
9	LV0P	+LVDS Differential Data Input.
10	GND	Ground.
11	LV1N	-LVDS Differential Data Input.
12	LV1P	+LVDS Differential Data Input.
13	GND	Ground.
14	LV2N	-LVDS Differential Data Input.
15	LV2P	+LVDS Differential Data Input.
16	GND	Ground.
17	LVCLKN	-LVDS Differential Clock Input.
18	LVCLKP	+LVDS Differential Clock Input.
19	GND	Ground.
20	LV3N	-LVDS Differential Data Input.
21	LV3P	+LVDS Differential Data Input.
22	GND	Ground.
23	LED_GND	Ground for LED Driving
24	LED_GND	Ground for LED Driving
25	LED_GND	Ground for LED Driving
26	NC	No Connection.
27	LED_PWM	LED Backlight PWM control signal for dimming.

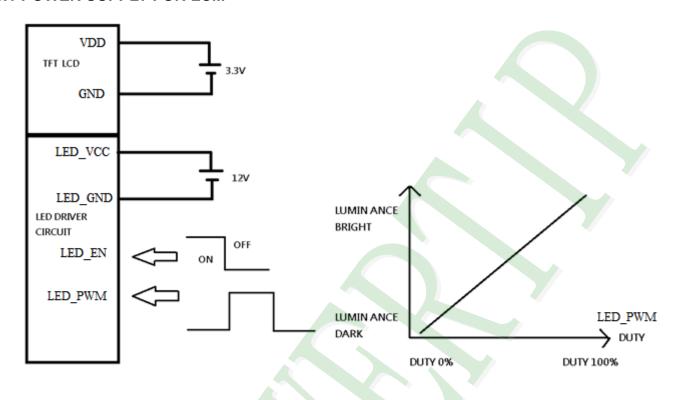


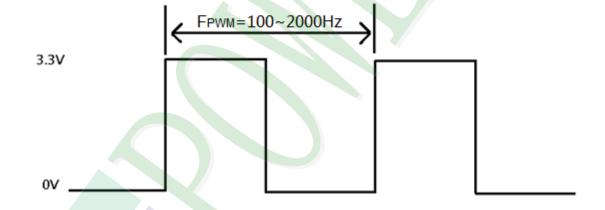
Pin No.	<u>Symbol</u>	<u>Description</u>
28	LED_EN	LED Backlight Enable Input.
29	NC	No Connection.
30	NC	No Connection.
31	LED_VCC	Power Supply for LED Backlight driving.
32	LED_VCC	Power Supply for LED Backlight driving.
33	LED_VCC	Power Supply for LED Backlight driving.
34	NC	No Connection.
35	NC	No Connection.
36	NC	No Connection.
37	NC	No Connection.
38	NC	No Connection.
39	NC	No Connection.
40	NC	No Connection.



## 2.3 Power Supply Characteristics

#### 2.3.1 POWER SUPPLY FOR LCM



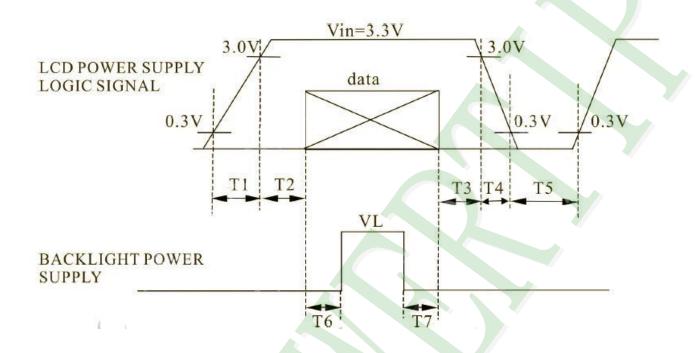




#### 2.3.2 POWER ,SIGNAL SEQUENCE

0.5<t1≤10ms 200ms≤t5 0<t2≤50ms 200ms≤t6 0<t3≤50ms 200ms≤t7

0<t4≤10ms





## 2.4 Timing Characteristics

# 2.4.1 LVDS Signal Timing Characteristics

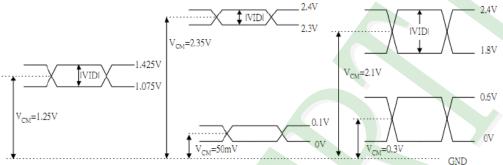
## **DC Characteristics**

<u>Symbol</u>	<u>Parameter</u>	<u>Conditions</u>	<u>Min</u>	Тур	Max	<u>Unit</u>
$V_{TH}$	Differential Input High Threshold		-	-	100	mV
V <sub>TL</sub>	Differential Input Low Threshold	V <sub>CM</sub> =+1.2V	-100	-	-	mV
lcc	Average Supply Current		•	TBD		mA

Typical Input Swim

Minimum Input Swim

**Maximum Input Swim** 

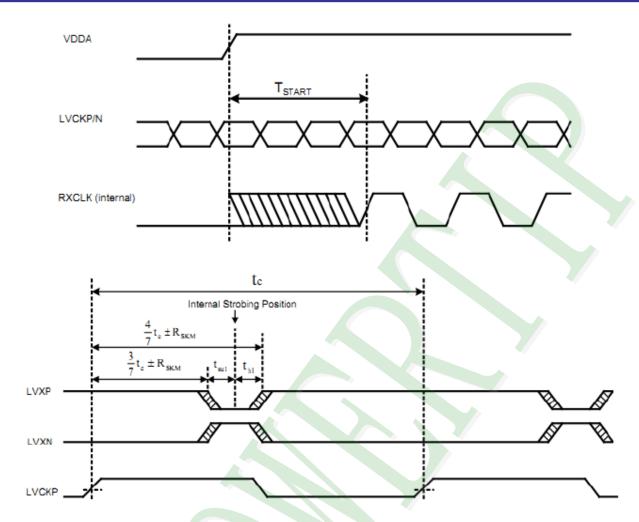


LVDS Receiver Input Signal Operation Range

## **AC Characteristics**

<u>Symbol</u>	<u>Parameter</u>	Conditions	Min	Тур	<u>Max</u>	<u>Unit</u>
_		RX_HF=0	25	-	100	MHz
F <sub>OP</sub>	Input Operating Frequency range	RX_HF=1	100	-	170	MHz
R <sub>SKM</sub>		85MHz,  VID =400mV, V <sub>CM</sub> =1.2V	450	•	-	pS
	Receiver Skew Margin	150MHz,  VID =400mV, V <sub>CM</sub> =1.2V	267	-	-	pS
_	Receiver startup time (after a valid LVDS					
T <sub>STRAT</sub>	clock is applied)		-	-	10	mS





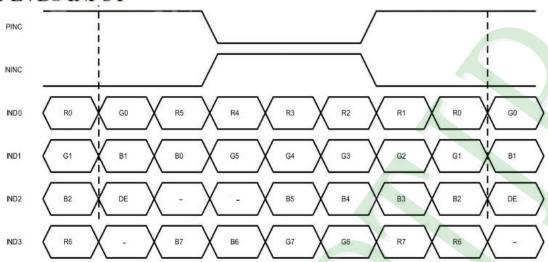
NOTE: LVCK is advanced or delayed with respect to data until errors are observed at the receiver outputs. The advance or delay is then reduced until there are no data errors observed. The magnitude of the advance or delay is RSKM.





## 2.4.2 LVDS Data Input Format

## 8-BIT LVDS INPUT



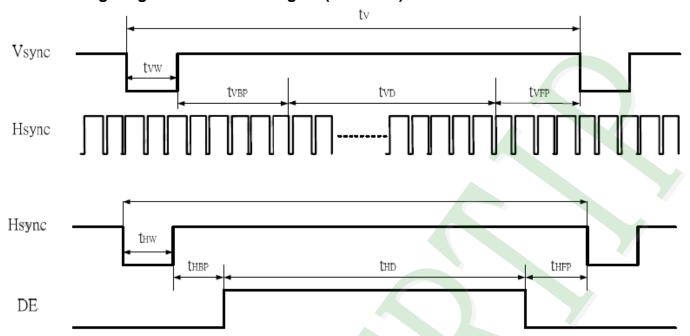
## 2.4.3 Interface Timings

<u>Parameter</u>	<u>Symbol</u>	<u>Unit</u>	Min.	<u>Тур.</u>	Max.
Frame Rate	- ^	Hz	-	60	-
Frame Period	tV	line	(815)	(823)	(1023)
Vertical Display Time	tVD	line		800	
Vertical Blanking Time	tvw+tvbp+tvfp	line	(15)	(23)	(33)
1 Line Scanning Time	tH	clock	(1410)	(1440)	(1470)
Horizontal Display Time	tHD	clock		1280	
Horizontal Blanking Time	tHW+tHBP+tHFP	clock	(60)	(160)	(190)
Clock Rate	1/Tc	MHz	(68.9)	(71.1)	(73.4)





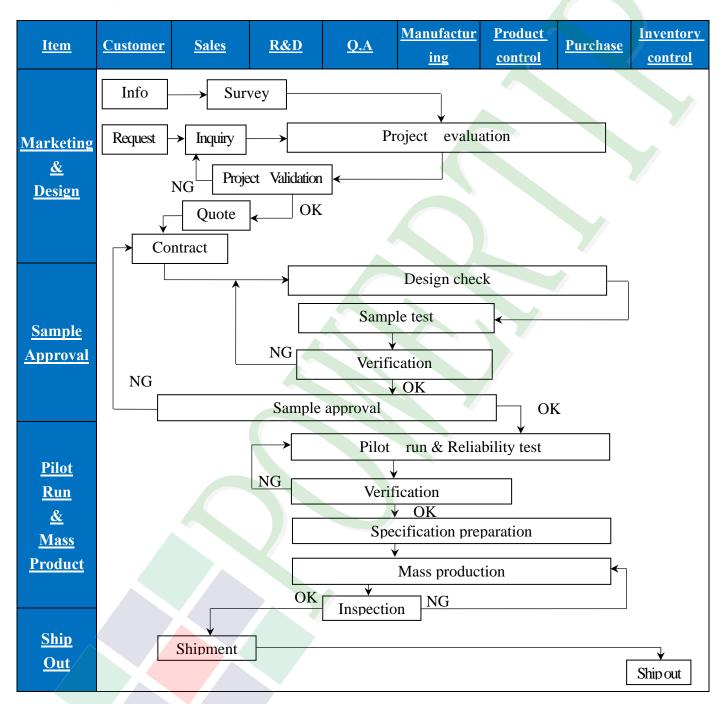
## 2.4.4 Timing Diagram of Interface Signal (DE mode)



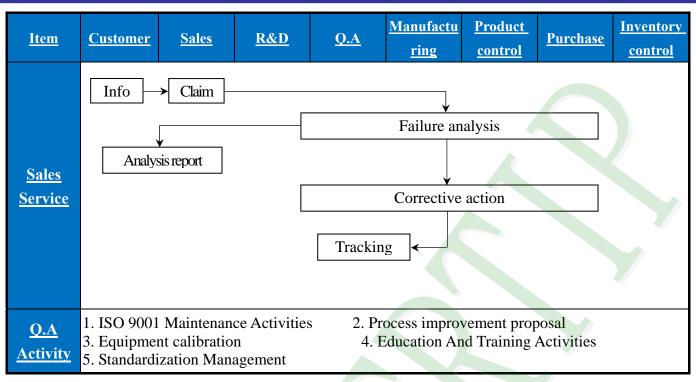


## 3. QUALITY ASSURANCE SYSTEM

## 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.

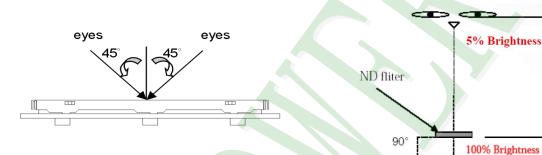
**◆**Equipment: Gauge, MIL-STD, Powertip Tester, Sample

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

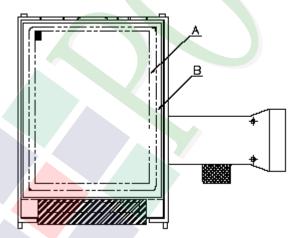
**♦**OUT Going Defect Level: Sampling.

**♦**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

LCD panel

B area: Outside of viewing area

2.5~3cm

30~40 cm

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



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

<u>NO</u>	<u>Item</u>	<u>Criterion</u>				
	Product condition	1. 1The part number is inconsistent with work order of production.	Major			
01		1. 2 Mixed product types.	Major			
		1. 3 Assembled in inverse direction.	Major			
02	Quantity	. 1The quantity is inconsistent with work order of production.				
03	Outline dimension	3. 1Product 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			
		4. 3 Display malfunction.	Major			
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				
		$\begin{array}{c cccc} \underline{Dot} & Dark Dot & \leq 5 \\ \hline Defect & Joint Dot & \leq 3 \end{array}$				
	Dot defect	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
05	(Bright dot, Dark dot) 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> <li>5.3 The distance between two dot defect ≥5 mm.</li> <li>5.4 Bright dot: Dots appear bright and unchanged in visible with 5% ND filter is defined.</li> <li>5.5 Tiny bright dot: bright dot area ≤1/2 dot. <ul> <li>a. Dots appear bright and unchanged in visible with 5% ND filter is defined defect and is judged in accordance with 6.1</li> <li>b. Dots invisible with 5% ND Filter is Ignored.</li> </ul> </li> </ul>	Minor			



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

NO	<u>Item</u>	<u>Criterion</u>				Level			
		6. 1 Round type (	Non-displa	y or dis	splay):				
		Dimensio	on (diamete	<u>r : Ф)</u>	Acceptar A area	nce (Q'ty) B area			
	Black or white Dot, scratch,	0.25	$\Phi \le 0.$ $< \Phi \le 0.$		Ignore 5				
	contamination		$\Phi > 0$ Total		0 5	- Ignore			
	Round type  → X ← ↓	6. 2 Line type(No		r displa					
06	$\begin{array}{c c} & & & \\ \hline \end{array}$	module size	Length (L)	w	idth (W)	Acceptanc A area	e (Q'ty) B area	Minor	
00	$\Phi = (x+y)/2$	2504 1 00	 L ≤10.0 L ≤5.0	_	$W \le 0.03$ $< W \le 0.05$ $< W \le 0.10$	Ignore 4 2		Nimor	
	Line type	Line type	3.5" to less 9"		Total	W >0.10	As round type 5	Ignore	
				 L ≦10.0		$W \le 0.05$ $< W \le 0.10$	Ignore 5		
		9" to 15"		Total	$\frac{W > 0.10}{I}$	As round type 5	Ignore		
		Dimension	(diameter:	Φ)		nce (Q'ty) B are	20		
		X	$\Phi \leq 0.25$		A area Ignore	<u>B are</u>			
07	Polarizer Bubble		$\Phi \le 0.50$ $\Phi \le 0.80$		1	Lance	ro	Minor	
		0.30	$\Phi \ge 0.80$ $\Phi > 0.80$		0	Igno	10		
			Total		5				



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

NO	Item	<u>Criterion</u>				
		Z: The thickness of crack V	Y: The width of crack. V: terminal length a: LCD side length			
		8. 1 General glass chip: 8. 1. 1 Chip on panel surface and cra	ack between panels:			
		Z Z	Z X			
08	The crack of glass	SP Y (OK)	[NG]	Minor		
		Seal width Z	Y			
		<u>X</u> <u>Y</u>	<u>Z</u>			
		≤ a Crack can't enter viewing area	≤1/2 t			
		≤ 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″:

NO	<u>Item</u>	<u>Criterion</u>	Level
		Symbols:  X: The length of crack Z: The thickness of crack t: The thickness of glass  X: The width of crack. W: terminal length a: LCD side length	
		X Y Z	
		$\leq 1/5$ a Crack can't enter viewing area $Z \leq 1/2$ t Crack can't exceed the 1/9 4 × 7 × 9.4	
08			M
06	The crack of glass	8.2 Protrusion over terminal: 8.2.1 Chip on electrode pad:	Minor
		X X Z X Z	
		W X	
		$\begin{array}{c cccc} \underline{X} & \underline{Y} & \underline{Z} \\ \hline Front & \leq a & \leq 1/2  W & \leq t \end{array}$	
		$\begin{array}{ c c c c c }\hline Back & \leq a & \leq W & \leq 1/2 t\\ \hline \end{array}$	



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



◆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. 1Pin type \quantity \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

4.1 Reliability Test Condition

(Ver.A01)

NO.	TEST ITEM	TEST CONDITION			
1	High Temperature Operation Test	Keep in +70 ±5°C 240 hrs			
2	Low Temperature Operation Test	Keep in −20 ±5°C 240 hrs			
3	High Temperature Storage Test	Keep in +80 ±5°C 240 hrs			
4	Low Temperature Storage Test	Keep in −30 ±5°C 240 hrs			
5	High Temperature / High Humidity Storage Test	Keep in +60 °C / 90% R.H duration for 240 hrs (Excluding the polarizer)			
6	Temperature Cycling Storage Test	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
7	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%)			
8	Vibration Test (Packaged)	<ol> <li>Sine wave 10~55 Hz frequency (1 min/sweep)</li> <li>The amplitude of vibration :1.5 mm</li> <li>Each direction (X \ Y \ Z) duration for 2 Hrs</li> </ol>			
9	Drop Test (Packaged)	Packing Weight (Kg)       Drop Height (cm)         0 ~ 45. 4       122         45. 4 ~ 90. 8       76         90. 8 ~ 454       61         0ver 454       46    Drop Direction : %1 corner / 3 edges / 6 sides each 1 time			



### 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

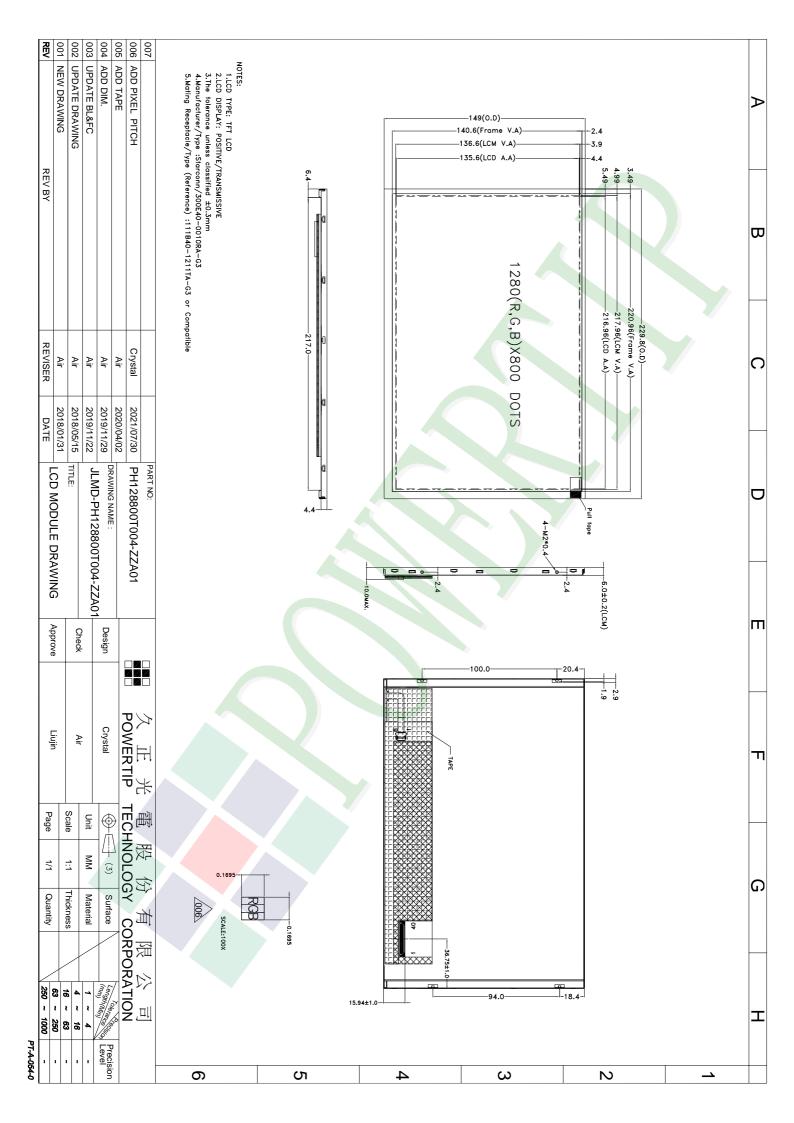
- 5.2.1 Avoid any strong mechanical shock which can break the glass.
- 5.2.2 Avoid static electricity which can damage the CMOS LSI—When working with the module, be sure to ground your body and any electrical equipment you may be using.
- 5.2.3 Do not remove the panel or frame from the module.
- 5.2.4 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 CAUTION: Continuously displaying same static image will result in high possibility of image sticking/image burn-in effect due to TFT panel characteristic.
- 5.2.12 Double-sided tape designed to be attach with the customer's mechanical device, please follow up the rules and regulations published by the original manufacturer of double-sided tape for the attachment operation.

#### **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 Documents NO. JPKG-PH128800T004-ZZA01 Ryan Terry Air (For Tray) 1.包裝材料規格表 (Packaging Material): (per carton) 1Pcs Weight No. Item Model Quantity Total Weight Dimensions (mm) 成品 (LCD) 1 PH128800T004-ZZA01 229.8 X 149 X 6.0 0.2271 18 4.0878 2 多層薄膜(1)POF OTFILM0BA03ABA 3 3 TRAY 盤 (2)Tray 12 TY00000000394 517 X 377 X 18.8 0.2 2.4 4 内盒(3)Product Box 558 X 393 X 68 BX00000000071 0.6 3 1.8 5 2 保利龍板(4)Polylon board 550 X 393 X 20 0.0568 OTPLB00PL08ABA 0.0284 6 外紙箱(5)Carton BX57041027CCBA 570 X 410 X 265 1.0 1 1.0 7 舒美墊(6)EPE 333X 218 X 2.0 14 OTFOAMEP0001BA 0.0032 0.0448 8 9 2.一 整箱總重量 (Total LCD Weight in carton): Kg±10% 3. 單箱數量規格表 (Packaging Specifications and Quantity): (1)LCD quantity per box : no per tray x no of tray 2 3 6 (2)Total LCD quantity in carton: quantity per box x no of boxes 18 Use empty tray 空盤 (4)保利龍板 (1)多層薄膜 Polylon board POF **EPE** (2)TRAY 盤 Put products into the tray Tray (5)外紙箱 Carton Tray stacking (3)内盒 Product Box 特 記 事 項 (REMARK) 5. LCM上面放置2.0t EPE(舒美墊) 6. LCM下方放置1pcs, 2.0t EPE(舒美墊) Detail B 1pcs(裁切後尺寸109x166.5) 333 218

4. TRAY盤相疊時,需旋轉180度,請詳見B視圖

Check the tray stack using Fig. B.

Rotate tray 180 degrees and place on top of stack.

裁切線

裁切線