



SPECIFICATIONS

CUSTOMER PTC

SAMPLE CODE SH128800T004-ZZC06

MASS PRODUCTION CODE PH128800T004-ZZC06

SAMPLE VERSION 04

SPECIFICATIONS EDITION 009

DRAWING NO. (Ver.) JLMD-PH128800T004-ZZC06_004

PACKAGING NO. (Ver.) JPKG-PH128800T004-ZZC06_001

Customer Approved

Date:

Approved	Checked	Designer
劉進	劉進	陳璐

Preliminary specification for design input

Specification for sample approval

POWERTIP TECH. CORP.

Headquarters: No.8, 6th Road, Taichung Industrial Park,

Taichung, Taiwan

TEL: 886-4-2355-8168

E-mail: sales@powertip.com.tw

台中市 407 工業區六路 8號

FAX: 886-4-2355-8166

Http://www.powertip.com.tw



History of Version

Date	Ver.	Edi.	Description	Page	Design by
01/30/2018	01	001	New Drawing.	4	陳璐
02/12/2018	01	002	Modify Description of VLED, Modify Backlight Characteristics, Modify Interface PIN Description	5,8,11,12,13	陳璐
06/07/2018	01	003	New Sample	-	陳璐
06/28/2018	01	004	Add Power Consumption	5	陳璐
02/22/2019	01	005	Modify RELIABILITY TEST	28	陳璐
10/17/2019	01	006	Modify Operating Temperature	5,9,28	陳璐
11/29/2019	02	007	Modify BL	-	陳璐
04/10/2020	03	008	Add TAPE	Appendix	陳璐
11/16/2020	04	009	Modify Power Supply Current	5	陳璐
		X			

Total: 29 Page



Contents

1. SPECIFICATIONS

- 1.1 Features
- 1.2 Mechanical Specifications
- 1.3 Absolute Maximum Ratings
- 1.4 DC Electrical Characteristics
- 1.5 Optical Characteristics
- 1.6 Backlight Characteristics
- 1.7 Touch Panel Characteristics

2. MODULE STRUCTURE

- 2.1 Counter Drawing
- 2.2 Interface Pin Description
- 2.3 Timing Characteristics

3. QUALITY ASSURANCE SYSTEM

- 3.1 Quality Assurance Flow Chart
- 3.2 Inspection Specification

4. RELIABILITY TEST

4.1 Reliability Test Condition

5. PRECAUTION RELATING PRODUCT HANDLING

- 5.1 Safety
- 5.2 Handling
- 5.3 Storage
- 5.4 Terms of Warranty

Appendix: 1. LCM Drawing.

2. Packaging



1. SPECIFICATIONS

1.1 Features

Item	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 web site :
	http://www.powertip.com.tw/news.php?area_id_view=1085560481/

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	254.96(W) * 173.6 (L) * 10.0 (H)Max	mm

LCD panel

Item	Standard Value	Unit
Active Area	216.96 (W) * 135.60 (L)	

Note: For detailed information please refer to LCM drawing.





1.3 Absolute Maximum Ratings

Item	Symbol	Condition	Min.	Max.	Unit
Power Supply Voltage	VDD	-	-0.3	+4.0	V
Power Supply Voltage	LED_VCC	-	-0.3	+50	V
Operating Temperature	Тор	-	-20	+70	$^{\circ}\!\mathbb{C}$
Storage Temperature	T _{ST}	-	-30	+80	$^{\circ}\!\mathbb{C}$
Storage Humidity	H _D	Ta<60 ℃	-	90	%RH

1.4 DC Electrical Characteristics

Ite	m	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply LCD [VDD	-	2.75	3.3	3.6	V
Power Suppl LED [LED_VCC	-	9.0	12.0	15.0	V
Power Sup	ply Current	IDD*1	VDD=3.3V	-	450	680	mA
Power Supply LED [ILED_VCC	LED_VCC =12V	-	600	660	mA
Power Cor	nsumption	Pd	VDD=3.3V LED_VCC =12V	-	-	0.93+7.92	W
PWM Signal	High	VPWM	-	0.8*VLED_EN	-	VLED_EN	V
Voltage	Low	VEVVIVI	-	0	-	0.2* VLED_EN	V
LED Enable	High	VLED_EN	-	1.65	-	5.25	V
Voltage	Low	VLLD_EIN	-	0	-	0.4	V
PWM Fre	equency	FPWM	-	100	-	20000	Hz



1.5 Optical Characteristics

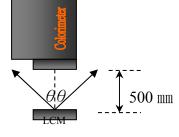
TFT LCD Panel Ta=25°C

Item		Symbol	Condition	Min.	Тур.	Max.	Unit	-
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	-	Deg.	NOIE4
	Right	ΘХ+		-	85	-		
Contrast ration	0	CR		600	800	-	1	Note3
	White	Χ		0.26	0.31	0.36		
	vvriite	Υ		0.30	0.35	0.40		
0 1 (0)5	Red	Х		0.55	0.60	0.65		
Color of CIE	Reu	Υ	If=200mA	0.29	0.34	0.39		Natad
Coordinate (With B/L and TP)	Green	Х		0.27	0.32	0.37	-	Note1
(With B/E and Tr)	Olecii	Y		0.54	0.59	0.64		
	Blue	Х		0.10	0.15	0.20		
	blue	Y		0.11	0.16	0.21		
Average Brightr	ness							
Pattern=white dis	splay	IV	If=200mA	700	800	-	cd/m2	Note1
(With B/L and	ГР)							
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%





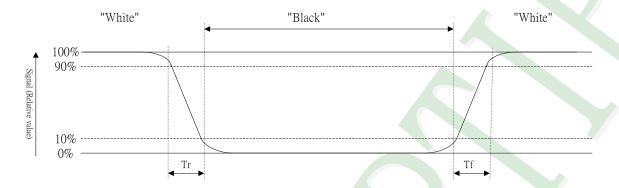
Colorimeter=BM-7 fast



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:

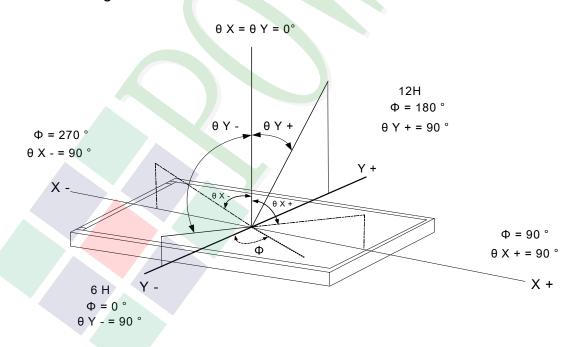
Contrast ratio is calculated with the following formula

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

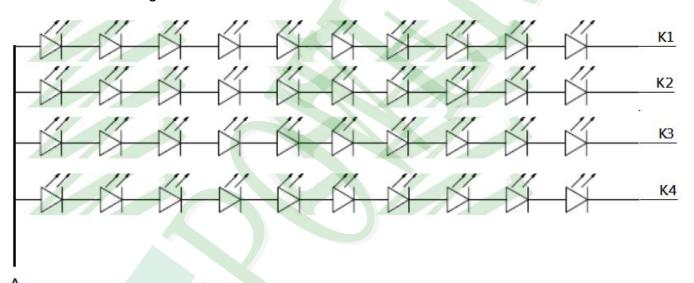
Maximum Ratings

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Power Dissipation	Pd		-	-	260	mW
LED Forward Current	IF	1 LED	-	-	80	mA
LED Reverse Voltage	VR		-	_	1.2	V

Electrical / Optical Characteristics

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Voltage for LED Backlight	VF	If-200m A	26	28	30	V
Current for LED Backlight	IF	If=200mA	-	200	-	mA
Color			White			

Internal Circuit Diagram



Other Description

Item	Conditions	Description
Life Time	Ta =25℃ IF= 200mA	70000 hrs



1.7 Touch Panel Characteristics

Features

Item	Standard Value
Touch Panel Size	10.1"
Touch type	Projective capacitive touch panel
Input Method	Finger / 5 Points touch
Output Interface	USB
IC	mxT1066T

Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	254.96(W) * 173.6(L)	mm
Viewing Area	217.96 (W) * 136.60 (L)	mm

Absolute Maximum Ratings

Absolute maximum ratii	Aboolato Maximum Natingo										
Item	Symbol	Condition	Min.	Max.	Unit						
Supply voltage	VDD_5.0	//	-0.3	+6.0	V						
Operating Temperature	Тор	- "	-20	+70	°C						
Storage Temperature	T _{ST}	-	-30	+80	°C						

DC Electrical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply Voltage for USB	VBUS	-	-	5.0	-	V

Optical Characteristics

Item	Standard Value	Unit
Total light transmittance	85% or more	-
Hardness	≥7H	

Touch Panel IC Read/Write description & Register Mapping

Reference : Atmel Touch Driver Porting Reference Guide.

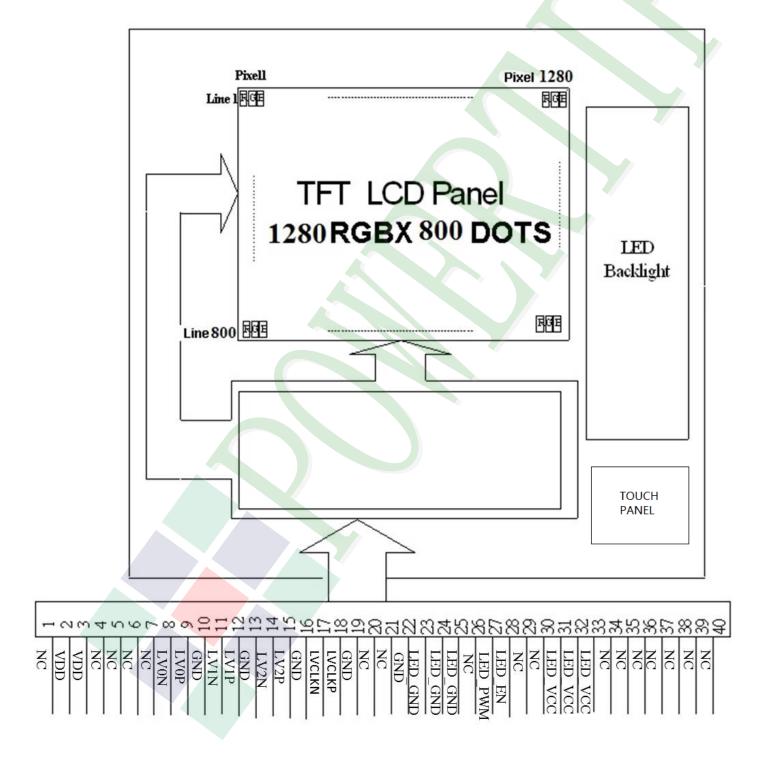


2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix





2.2 Interface Pin Description

Pin No.	Symbol	Description
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.	Symbol	Description
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.

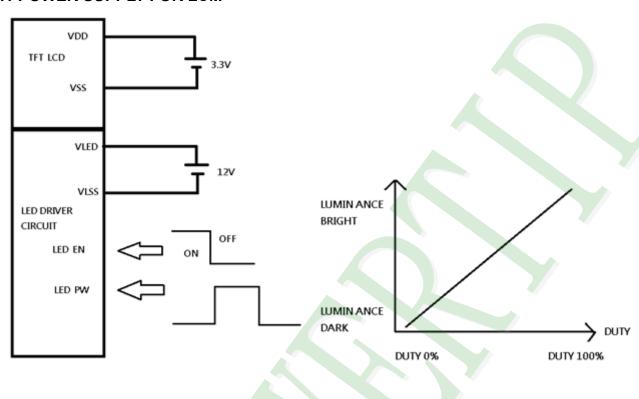
CN1(CTP USB Interface):

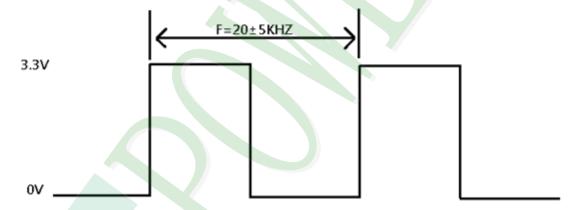
Pin No.	Symbol	Description
1	VDD	Power Supply.(+5.0V)
2	D-	D- Differential Data Input.
3	D+	D+ Differential Data Input.
4	NC	No Connection.
5	GND	Ground.
6	NC	No Connection.



2.3 Power Supply Characteristics

2.3.1 POWER SUPPLY FOR LCM





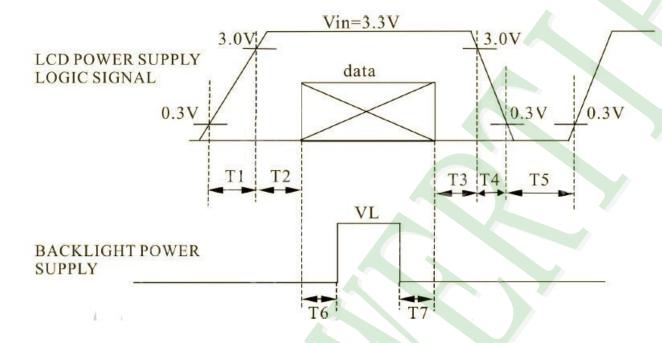


2.3.2 POWER ,SIGNAL SEQUENCE

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

0<t3≤50ms

0<t4≤10ms





2.4 Timing Characteristics

2.4.1 LVDS Signal Timing Characteristics

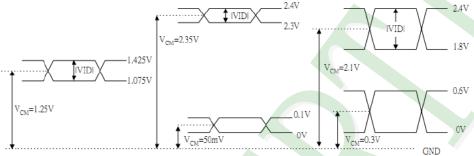
DC Characteristics

Symbol	Parameter	Conditions	Min.	Тур.	Max	Unit
V_{TH}	Differential Input High Threshold		-	-	100	mV
V _{TL}	Differential Input Low Threshold	V _{CM} =+1.2V	-100	-		mV
lcc	Average Supply Current		-	TBD		mA

Typical Input Swim

Minimum Input Swim

Maximum Input Swim



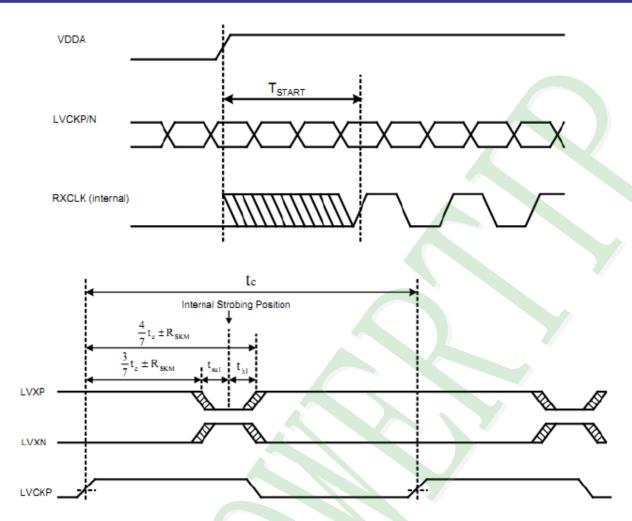
LVDS Receiver Input Signal Operation Range

AC Characteristics

Symbol	Parameter	Conditions	Min.	Тур.	Max	Unit
_		RX_HF=0	25	-	100	MHz
F _{OP}	Input Operating Frequency range	RX_HF=1	100	-	170	MHz
		85MHz, VID =400mV, V _{CM} =1.2V	450	-	-	pS
R _{SKM}	Receiver Skew Margin	150MHz, VID =400mV, V _{CM} =1.2V	267	-	-	pS
_	Receiver startup time (after a valid LVDS				10	6
T _{STRAT}	clock is applied)		•	-	10	mS







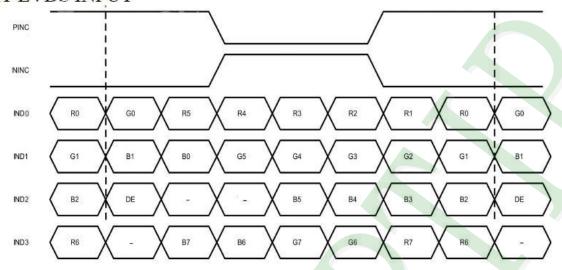
NOTE: LVCK is advanced or delayed with respect to data until errors are observed at the receiver outputs. The advance or delay is then reduced until there are no data errors observed. The magnitude of the advance or delay is RSKM.





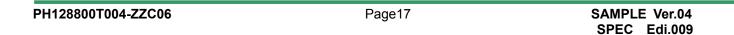
2.4.2 LVDS Data Input Format

8-BIT LVDS INPUT



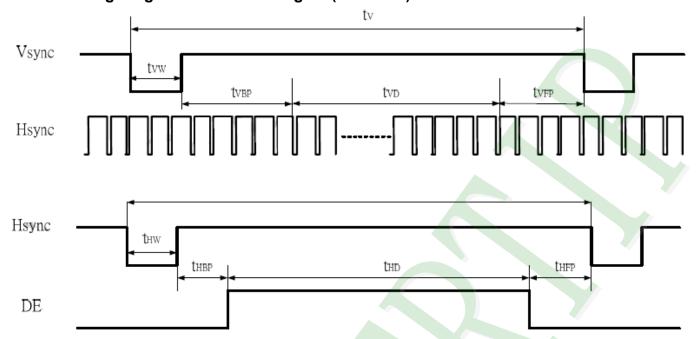
2.4.3 Interface Timings

Parameter	Symbol	Unit	Min.	Тур.	Max.
Frame Rate	-	Hż	-	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	Тн	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





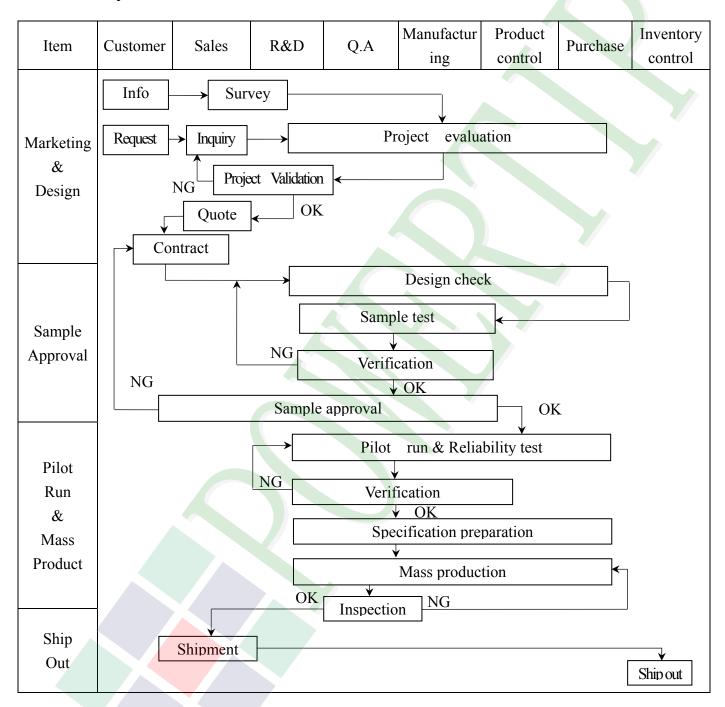
2.4.4 Timing Diagram of Interface Signal (DE mode)



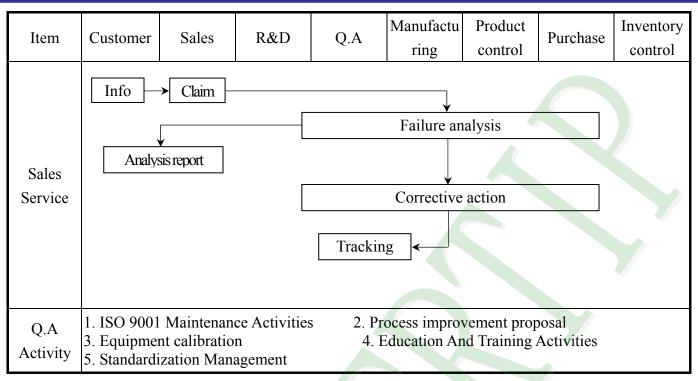


3. QUALITY ASSURANCE SYSTEM

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

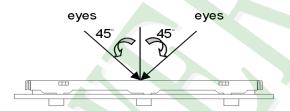
◆Defect Level: Major Defect AQL: 0.4; Minor Defect AQL: 1.5

♦OUT Going Defect Level: Sampling.

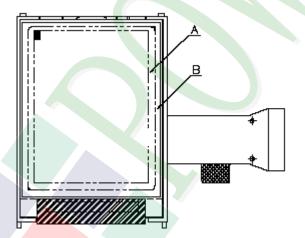
♦Standard of the product appearance test:

a. Manner of appearance test:

- (1). The test best be under 20W×2 fluorescent light, 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)

PH128800T004-ZZC06 Page21 SAMPLE Ver.04 SPEC Edi.009



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

NO	Item	Criterion	Level				
		1. 1The part number is inconsistent with work order of production.					
01	Product condition	1. 2 Mixed product types.					
		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.					
		4. 1 Missing line character and icon.	Major				
04		4. 2 No function or no display.	Major				
	Electrical Testing	4. 3 Display malfunction.	Major				
		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						
	(D:14.14	Defect Joint Dot ≤ 3					
05	(Bright dot \ Dark dot)	Total ≤ 7	Minor				
	On -display	 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″:

▼ Spc.	The auton For Tra	I-LCD IV	viouuic 5. 5	10 .					(ver.bu1)
NO	Item		Criterion						
	Black or white dot \ scratch \ contamination	6. 1 Ro	Dimensio	Non-displa on (diamete $\Phi \leq 0.$ $< \Phi \leq 0.$ $\Phi > 0$ Total	r: Φ) 25 50		nce (Q'ty) B area Ignore		
	Round type			10tai		5			
	Round type $\begin{array}{c c} X & \leftarrow & \\ \hline & Y \\ \hline & \uparrow \end{array}$	6. 2 Li	6. 2 Line type(Non-display or display):						
06	<u>Y</u>	mo	dule size	Length (L)	W	fidth (W)	Acceptanc A area	e (Q'ty) B area	Minor
00	.					$W \leq 0.03$	Ignore		- TVIIIIOI
	$\Phi = (x+y)/2$			L ≤10.0		$<$ W ≤ 0.05	4		
		3.5"	to less 9"	L ≤5.0	0.05	$<$ W ≤ 0.10	2	Ignore	
	Line type			W >0.10 Total		As round type			
	✓ W	_ ✓ W				5			
						W ≤ 0.05	Ignore		
				L ≤10.0	0.05	$<$ W ≤ 0.10	5		
		9'	" to 15"			W >0.10	As round type	Ignore	
					Total	l	5		
								1	
		I	Dimension	(diameter :	Ф) —		nce (Q'ty)		
				$\Phi \leq 0.25$		A area	B are	ea	
				$\Psi \ge 0.25$,	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 cra	ack between panels:	
		Z Z	Z	
08	The crack of glass	SP Y	SP [NG]	Minor
		[OK]	Y	
		Z. T. 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	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. 2 Corner crack:	
		X Y Z	
		$\leq 1/5$ a Crack can't enter viewing area $Z \leq 1/2$ t	
no	The availant along		Minau
00	08 The crack of glass 8.2 Protrusion over terminal:		Minor
8. 2. 1 Chip on electrode pad: X X Y X Y			
		W	
		X Y Z	
		Front $\leq a$ $\leq 1/2 W$ $\leq t$	
		Back $\leq a$ $\leq W$ $\leq 1/2 t$	



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



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

<u> </u>	Specification For 1F1-LCD Module 5. 5 ~15 · (V		
NO	Item	Criterion	Level
09	Backlight elements	9. 1 Backlight can't work normally.	Major
		9. 2 Backlight doesn't light or color is wrong.	Major
		9. 3 Illumination source flickers when lit.	Major
10	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. 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.	Renability rest Condition (ver.but)			
NO.	TEST ITEM	TEST CONDITION		
1	High Temperature Operation Test	Keep in +70 ±2°C 240 hrs ,Display ON Surrounding temperature, then storage at normal condition 4hrs.		
2	Low Temperature Operation Test	Keep in -20 ±2°C 240 hrs ,Display ON Surrounding temperature, then storage at normal condition 4hrs.		
3	High Temperature Storage Test	Keep in +80 ±2°C 240 hrs Surrounding temperature, then storage at normal condition 4hrs.		
4	Low Temperature Storage Test	Keep in −30 ±2°C 240 hrs Surrounding temperature, then storage at normal condition 4hrs.		
5	High Temperature / High Humidity Storage Test	Keep in +60°C / 90% R.H duration for 240 hrs Surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer)		
6	Temperature Cycling Storage Test	$-30^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow +80^{\circ}\text{C} \rightarrow +25^{\circ}\text{C}$ $(30\text{mins}) (5\text{mins}) (5\text{mins})$ 20 Cycle Surrounding temperature, then storage at normal condition 4hrs.		
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)	 Sine wave 10~55 Hz frequency (1 min) The amplitude of vibration :1, 5 mm Each direction (X \cdot Y \cdot Z) duration for 2 Hrs 		
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 times			



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° 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.

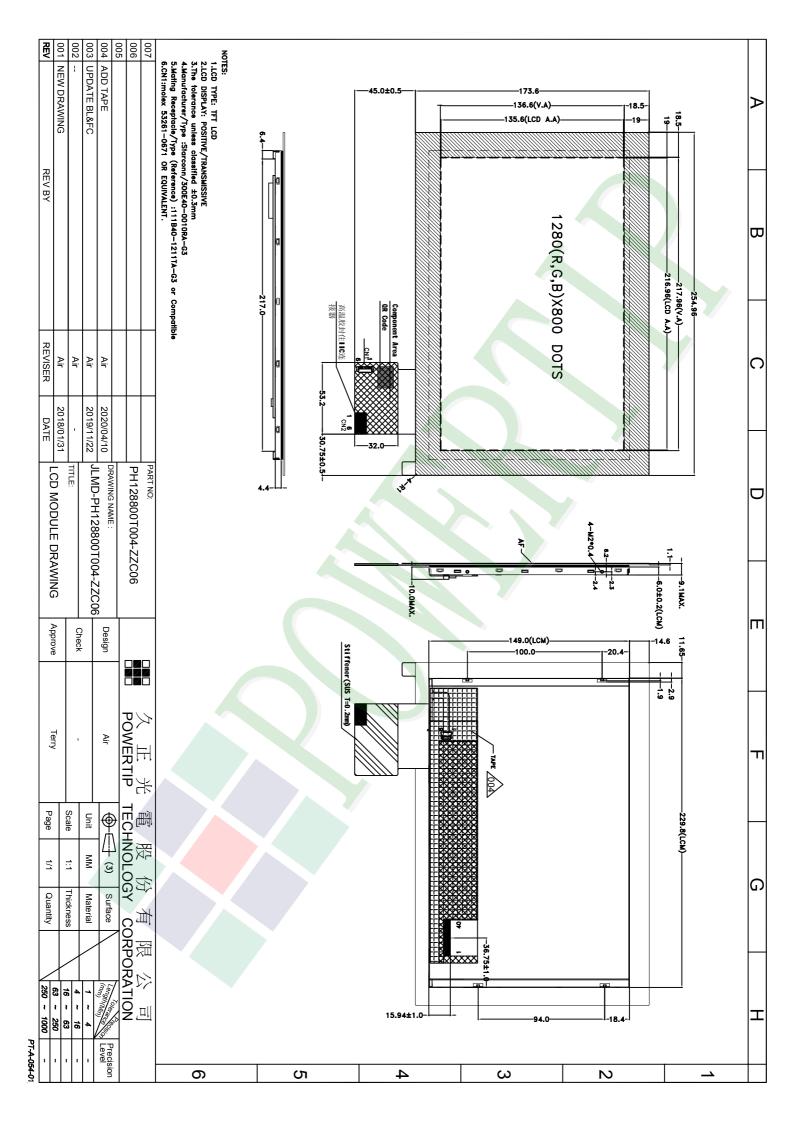
5.4 TERMS OF WARRANTY

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-ZZC06 Ryan Terry Air (For Tray) 1.包裝材料規格表 (Packaging Material): (per carton) Item 1Pcs Weight Total Weight No. Model Dimensions (mm) Quantity 成品 (LCM) 1 PH128800T004-ZZC06 254.96 X 173.6 X 9.1 0.4337 18 7.8066 2 多層薄膜(1)POF 3 OTFILM0BA03ABA 3 TRAY 盤 (2)Tray 12 TY00000000394 0.2 2.4 517 X 377 X 18.8 内盒(3)Product Box 4 558 X 393 X 68 0.6 3 1.8 BX00000000071 5 保利龍板(4)Polylon board OTPLB00PL08ABA 550 X 393 X 20 0.0284 2 0.0568 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)LCD quantity per box: no per tray 3 x no of tray 6 (2) Total LCD quantity in carton: quantity per box x no of boxes 6 3 18 Use empty tray 空盤 (4)保利龍板 (1)多層薄膜 Polylon board POF Put products into the tray (2)TRAY 盤 Tray 仆 (5)外紙箱 Carton Tray stacking (3)内盒 Product Box 特 記 事 項 (REMARK) 斜角 Detail B Tray 2 Trav 1 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.