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CUSTOMER . PTC

SAMPLE CODE · SH800480T-013-I01Q

MASS PRODUCTION CODE . PH800480T-013-I01Q

SAMPLE VERSION . 02

SPECIFICATIONS EDITION . 005

DRAWING NO. (Ver.) . LMD-PH800480T-013-I01Q (Ver.003)

PACKAGING NO. (Ver.) PKG-PH800480T-013-I01Q (Ver.001)

Customer Approved

Date:

Approved	Checked	Designer
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2013.03.08

- 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
09/06/2012	01	001	New Drawing.	-	Ackey
09/24/2012	01	002	New Sample.	-	Ackey
12/07/2012	01	003	Modify Touch Panel Dimension.	Appendix	Ackey
01/23/2013	02	004	Second Sample.	Appendix	Ackey
03/07/2013	02	005	Update Inspection Specification.	21	Ackey
				-	

Total: 27 Page



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Appendix : LCM Drawing

LCM Packaging Specifications



1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	800 * (RGB) * 480
LCD Type	a-Si TFT , Normally white , Transmissive type
Screen size(inch)	7.0 inch
Viewing Direction	6 O'clock
Color configuration	Anti-Glare
Backlight Type	LED B/L
Weight	163 g
Interface	RGB Interface
	THIS PRODUCT CONFORMS THE ROHS OF PTC
ROHS	Detail information please refer web side :
	http://www.powertip.com.tw/news.php?area_id_view=1085560481/

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	164.9 (W) * 100.0 (L) * 4.9 (H)	mm

LCD panel

Item	Standard Value	Unit
Active Area	154.08 (W) * 85.92 (L)	mm

Touch panel

Item	Standard Value	Unit
Active Area	155.2 (W) * 88.24 (L)	mm

Note: For detailed information please refer to LCM drawing.



1.3 Absolute Maximum Ratings

Module

Item	Symbol	Condition	Min.	Max.	Unit	Remark
	DV_{DD}		-0.3	5.0	V	
Power Supply Voltage	AV_DD	GND=0	6.5	13.5	V	
	V_{GH}		-0.3	40	V	
	V_{GL}	AGND=0	-20	0.3	V	-/
	V_{GH} - V_{GL}	-	0	40	V	
Operating Temperature	T_OP	Excluded T/P	-20	60	°C	
Storage Temperature	T _{ST}	Excluded T/P	-30	70	°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 = $25^{\circ}C$

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
	DV_DD	3.0	3.3	3.6		
Supply Voltage	V_{GH}	15.3	16.0	16.7	V	
Supply voltage	V_{GL}	-7.7	-7.0	-6.3	_ v	
	AV_{DD}	10.2	10.4	10.6		-
VCOM	V _{COM}	1	3.9	-	٧	
Input signal Voltage	V _{IH}	$0.7DV_{DD}$	-	DV_{DD}	V	
input signal voltage	V_{IL}	0	-	$0.3DV_{DD}$	V	
Supply Current	IDD	-	80	-	mA	Pattern= Full display
Supply Current	100	-	80	120	ША	Pattern= Black *1

Note1: Maximum current display.

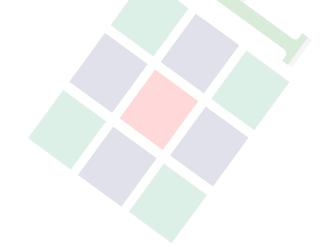


1.5 Optical Characteristics

TFT LCD Module

 DV_{DD} = 3.3 V, Ta=25°C

Item		Symbol	Condition	Min.	Тур.	Max.	unit	
Dooponeo timo	Rise	Tr	Ta = 25°C	-	10	20	mo	Note 2
Response time	Fall	Tf	θX, θY = 0°	-	15	30	ms	Note 2
	Тор	θΥ+	OD > 40	40	50	-		
Viouing angle	Bottom	θΥ-		60	70	-	Dog	Note 4
Viewing angle	Left	θX-	CR ≥ 10	60	70	-	Deg.	Note 4
	Right	θΧ+		60	70	-		
Contrast ratio		CR		200	250	-		Note 3
	White	Х		0.24	0.29	0.34		
	vvriite	Y		0.25	0.30	0.35		
Color of CIE	Red	Х	T- 05°0	0.51	0.56	0.61		
Coordinate	Red	Υ	Ta = 25°C θX , θY = 0°	0.29	0.34	0.39		Note1
(With B/L & touch	Green	X		0.28	0.33	0.38		NOLET
panel)		Υ		0.52	0.57	0.62		
	Blue	X		0.09	0.14	0.19		
	Dide	Υ		0.02	0.07	0.12		
Average Brightness								
Pattern=white display		IV	-	200	250	-	cd/m ²	Note1
(With B/L & touch panel)*1								
Uniformity		∆В	_	70	_	_	%	Note1
(With B/L & touch p	anel)*2			, 0		_	/0	140101





Note 1:

*1 : △B=B(min) / B(max) * 100%

*2 : Measurement Condition for Optical Characteristics:

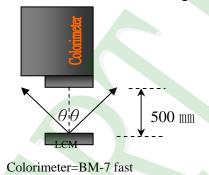
a: Environment: 25 ±5 / 60±20%R.H, no wind, dark room below 10 Lux at typical lamp current and typical operating frequency.

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%





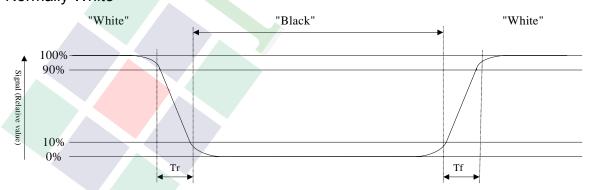
To be measured at the center area of panel with a viewing cone of 1° by Topcon luminance meter BM-7, after 10 minutes operation (module)

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.

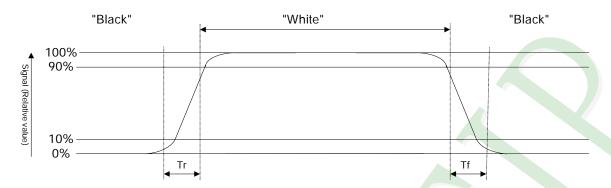
Refer to figure as below:

Normally White





Normally Black



Note3: Definition of contrast ratio:

Contrast ratio is calculated with the following formula

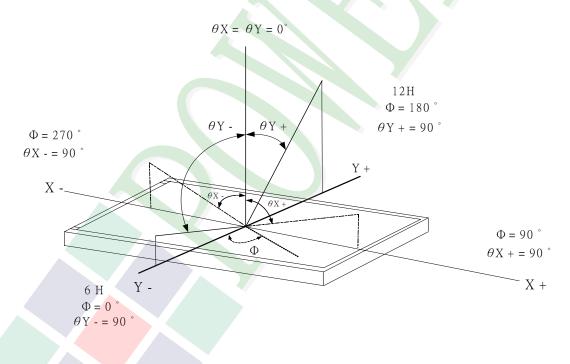
Photo detector output when LCD is at "White" state

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	Min.	Max.	Unit	Remark
LED Forward Current	I _F	2	5	mA	One LED
LED Reverse Voltage	V _R	1.2		V	OHE LED

Electrical / Optical Characteristics

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
LED Voltage	V_L	9.3	9.9	10.5	V	Note1
LED Current	l _L	140	160	180	mA	-
LED life time	-	20000	-	-	Hr	Note2

Note 1: The LED Supply Voltage is defined by the number of LED at Ta=25 and IL=180mA.

Note 2: The "LED life time" is defined as the module brightness decrease to 50% original brightness at Ta=25 and I∟=160mA. The LED lifetime could be decreased if operating I∟ is lager than 160mA.





1.7 Touch Screen Characteristic

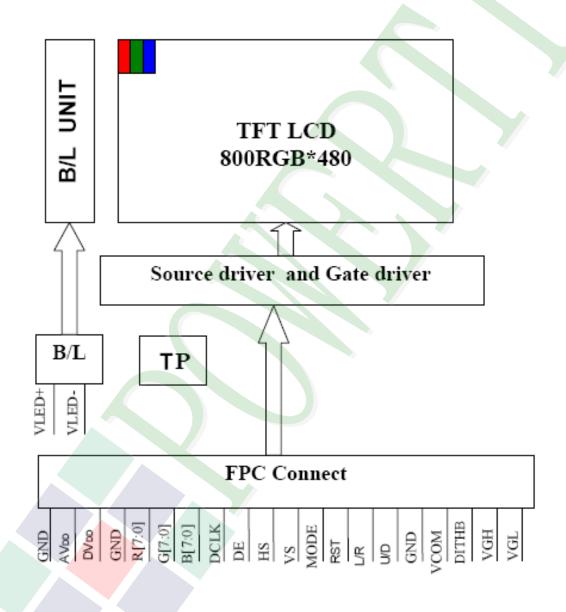
Item	Specification				
Input Method	Stylus or Finger.				
ITO Glass	Sheet Resistance:400±100 Ω				
ITO Film	Hard-Coating & Anti-glare Sheet Resistance:400±100 Ω				
Operating Temperature	-10 ~60 ,20~85%RH(Non Condensing)				
Storage Temperature	-20 ~70 ,10~90%RH(Non Condensing)				
¥	3H pencil, pressure 1N/45				
Hitting Life	≥1,000,000 times				
Writing Life	≥100,000 times				
Insulation	≥20MΩ/25V(DC)				
Transparency	≥78%				
Linearity	$X \le 1.5\%, Y \le 1.5\%$				
Operating Force	20-100g				
Chattering	≦10ms				
Impact Resistance	13.0ψDIA. Steel Ball/9g Height=30cm				
Static load resistance	500g within 30 cm² area for 30sec				



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	DESCRIPTION	Type:Remark
1	V_{LED+}	Power For LED backlight (+).	Power
2	V_{LED} +	Power For LED backlight (+).	Power
3	V_{LED}	Power For LED backlight (-).	Power
4	V_{LED}	Power For LED backlight (-).	Power
5	GND	Power ground.	Power
6	V _{com}	Common voltage.	1 //
7	DV_DD	Power for Digital Circuit.	
8	MODE	DE/SYNC mode select.	I,Note 1
9	DE	Data Input Enable.	Ĭ
10	VS	Vertical Sync Input.	
11	HS	Horizontal Sync Input.	
12	B7	Blue Data(MSB).	
13	B6	Blue Data.)
14	B5	Blue Data.	I
15	B4	Blue Data.	I
16	В3	Blue Data.	I
17	B2	Blue Data.	I
18	B1	Blue Data.	I:Note 2
19	В0	Blue Data(LSB).	I:Note 2
20	G7	Green Data(MSB).	I
21	G6	Green Data.	I
22	G5	Green Data.	I
23	G4	Green Data.	I
24	G3	Green Data.	I
25	G2	Green Data.	
26	G1	Green Data.	I:Note 2
27	G0	Green Data(LSB).	I:Note 2
28	R7	Red Data(MSB).	I
29	R6	Red Data.	I
30	R5	Red Data.	I
31	R4	Red Data.	
32	R3	Red Data.	I
33	R2	Red Data.	1
34	R1	Red Data.	I:Note 2
35	R0	Red Data(LSB).	I:Note 2
36	GND	Power Ground	Power
37	DCLK	Sample clock	I:Note 3



Pin NO.	SYMBOL	DESCRIPTION	Type:Remark
38	GND	Power Ground.	Power
39	L/R	Left / right selection.	I:Note 4,5
40	U/D	Left / right selection.	I:Note 4,5
41	V_{GH}	Gate On Voltage.	Power
42	V_{GL}	Gate OFF Voltage.	Power
43	AV_DD	Power for Analog Circuit.	Power
44	RESET	Global reset pin.	I:Note 6
45	NC	No connection.	-
46	V_{COM}	Common Voltage.	
47	DITHB	Dithering Function.	I:Note 7
48	GND	Power Ground.	Power
49	NC	No connection.	-
50	NC	No connection.	-

1:input

Note 1: DE/SYNC mode select. Normally pull high.

When select DE mode, MODE="1", VS and HS must pull high.

When select SYNC mode, MODE= "0", DE must be grounded.

Note 2: When input 18 bits RGB data, the two low bits of R,G and B data must be grounded.

Note 3: Data shall be latched at the falling edge of DCLK.

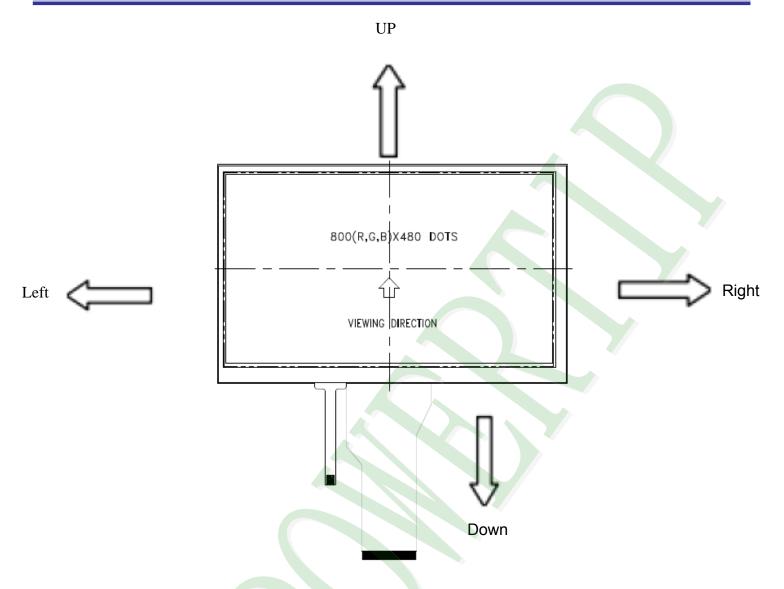
Note 4: Selection of scanning mode.

Setting of scan control input		Scanning direction
U/D	L/R	
GND	DVDD	Up to down, left to right
DVDD	GND	Down to up, right to left
GND	GND	Up to down, right to left
DVDD	DVDD	Down to up, left to right

Note 5: Definition of scanning direction.

Refer to the figure as below:





Note 6: Global reset pin. Active low to enter reset state. Suggest to connect with an RC reset circuit for stability. Normally pull high.

Note 7: Dithering function enable control, normally pull high. When DITHB="1",Disable internal dithering function. When DITHB="0",Enable internal dithering function.

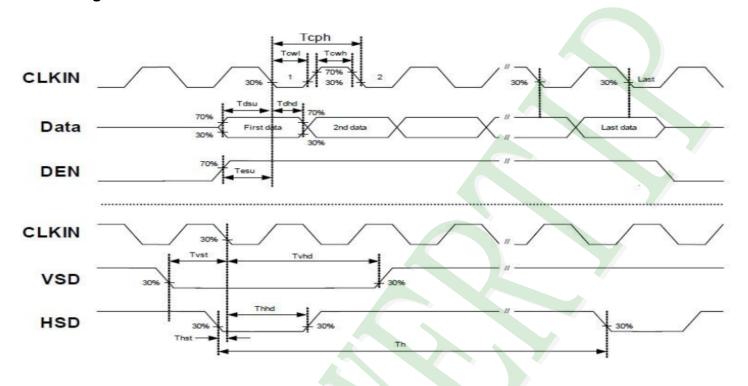
Touch Panel Pin Description

Pin No.	Symbol	Function
1	X+	RIGHT.(XR)
2	Y-	BOTTOM.(YB)
3	X-	LEFT.(XL)
4	Y+	TOP.(YT)



2.3 Timing Characteristics

2.3.1 Signal AC Characteristics



Item	Cumbal		Values		Unit	Remark
item	Symbol	Min	Тур	Max.	Onn	Remark
HS setup time	Thst	8	-	-	ns	
HS hold time	Thhd	8	1	ı	ns	
VS setup time	Tvst	8	-	-	ns	
VS setup time	Tvhd	8	-	-	ns	
VS setup time	Tdsu	8	-	•	ns	
VS setup time	Tdhd	8	-	-	ns	
DE setup time	Tesu	8	-	-	ns	
DE hole time	Tehd	8	-	-	ns	
DVDD Power On Slew rate	Tpor	-	-	20	ms	From 0 to 90%DVDD
RESET pulse width	T _{Rst}	1	-	-	ms	
DCLK cycle time	Tcoh	20	-	-	ns	
DCLK pulse duty	Tcwh	40	50	60	%	



2.3.2 Input Timing Setting

Item	Symbol		Values		Unit	Remark
		Min.	Тур.	Max.		
Horizontal Display Area	Thd		800		DCLK	
DCLK Frequency	Fclk	26.4	33.3	46.8	MHz	
One Horizontal Line	Th	862	1056	1200	DCLK	
HS pulse width	Thpw	1		40	DCLK	
HS Blanking	Thb	46	46	46	DCLK	
HS Front Porch	Thfp	16	210	354	DCLK	<u> </u>

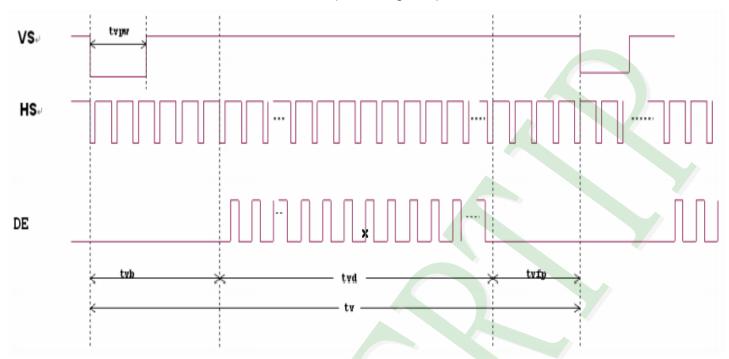
Item	Symbol		Values		Unit	Remark
		Min.	Тур.	Max.		
Vertical Display Area	Tvd		480		TH	
VS period time	Τv	510	525	650	ΤΉ	
VS pulse width	Tvpw	1		20	TH	
VS Blanking	Tvb	23	23	23	TH	
VS Front Porch	T∨fp	7	22	147	TH	

Horizontal input timing diagram





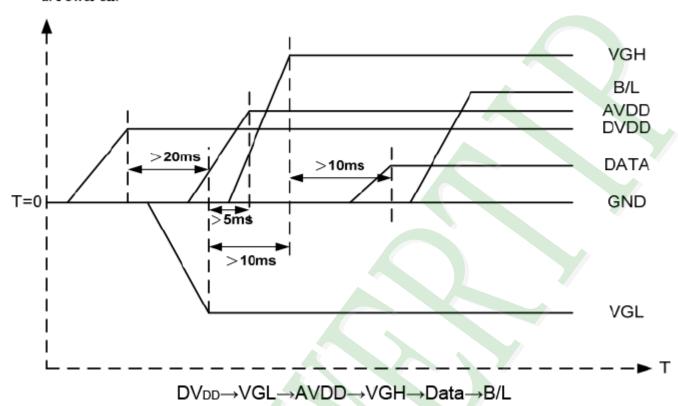
Vertical input timing diagram



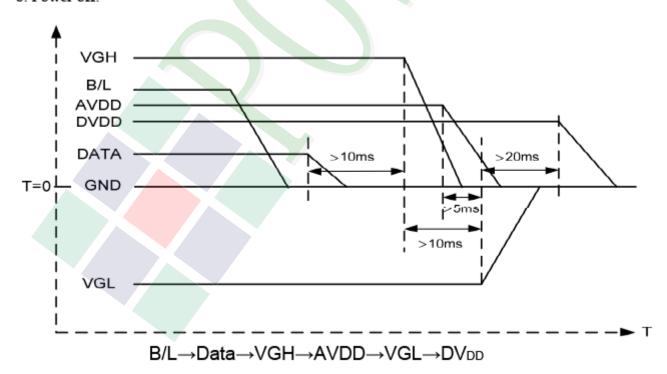


2.3.3 Power On/Off Characteristics

a. Power on:



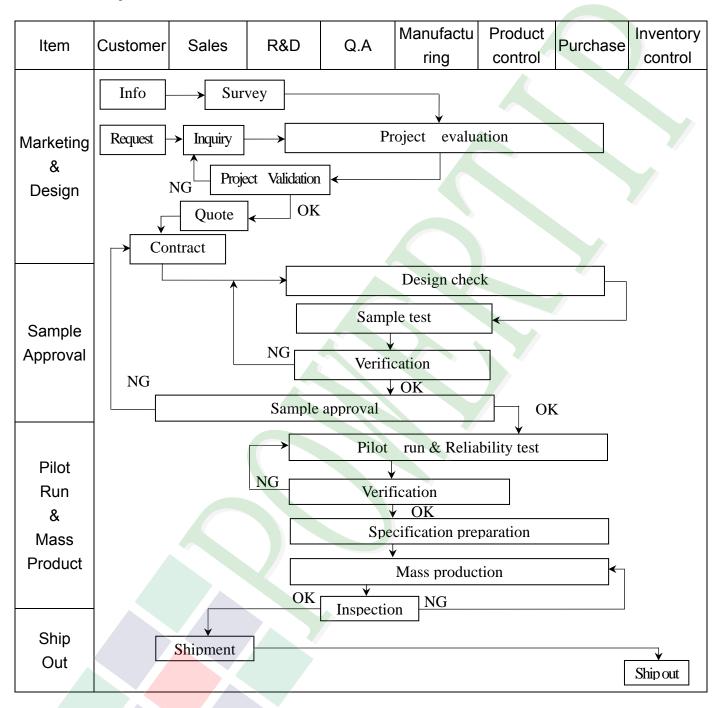
b. Power off:



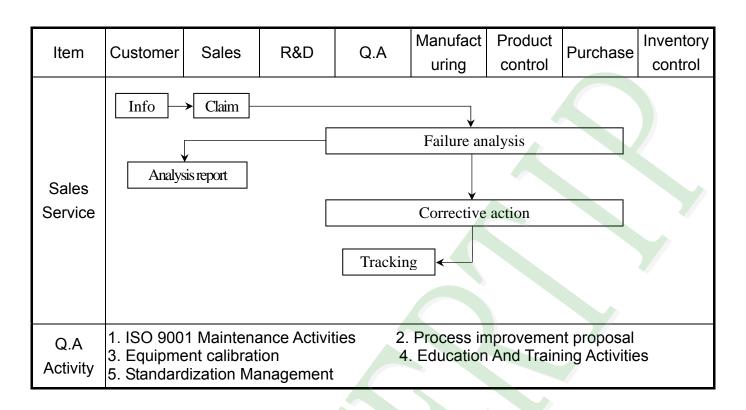


3. QUALITY ASSURANCE SYSTEM

3.1 Quality Assurance Flow Chart









3.2. Inspection Specification

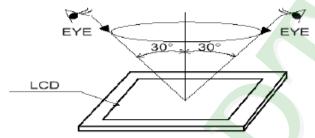
Scope : The document shall be applied to PH800480T-013-I01Q(Ver.01).

The customer should check and accept the products of linjia within one month after reception. This standard for Quality Assurance should affirm the quality of LCD products to supply to purchaser by Solon company Limited.

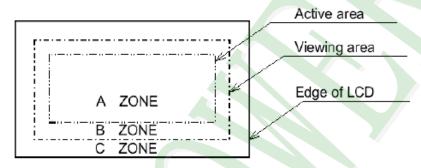
1.1.1 Appearance Inspection

Appearance inspection should be done under the following condition.

- (1) In the dark room.
- (2) The distance from eyes to LCD must be 30 cm.
- (3) Viewing direction must be within 30 degrees to vertical line of LCD center.



1.1.2 Definition of A zone, B zone and C zone



1.1.3 Appearance Criterion

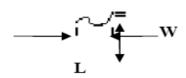
Item	Criterion				Note
LCD black spots,	1. Round type: As following drawing				
white	$\varphi = (x+y)/2$				
spots,	X				
color spots,					
contamina	Y				
tion,	1				
scratches					
(display/non -display)	Size	Acceptal	ole QTY	Remark	
display)	Oize	A.A	V.A	Nemark	
	φ≦0.2	Ignore	Ignore		
	0.2<φ≦0.4	1	4	No more than two	
	0.4<φ	0	0	spots within 5mm	
	Total	1	4		



♦Specification For PH800480T-013-I010:

(Ver.01)

2. Line Type: (As following drawing)



Length	Width	Acceptab	e QTY	Remark
		A.A	V.A	
	W≦0.03	Ignore	Ignore	
L≦2.5	0.03<			No
	W≦0.05			more than
				111010 (11111
		2	4	two lines
L≦1.5	0.05<			
	W≦0.08			within 5mm
	vv = 0.00			
	0.08< W	0	0	

3. Scratch:

Length	Width	Acceptable number	Mini space
L≦1.5	0.02≦₩≦0.05	Ignore	
1. 5 <l≦2. 5<="" td=""><td>0.02≦₩≦0.05</td><td>3</td><td></td></l≦2.>	0.02≦₩≦0.05	3	
2. 5 <l≦3. 5<="" td=""><td>0.02≦₩≦0.05</td><td>2</td><td>10mm</td></l≦3.>	0.02≦₩≦0.05	2	10mm
2. 5≦L≦3. 5	0.05≦₩≦0.1	Not allowed	
L>3. 5	W>0. 1	Not allowed	

4. Function:

No display or No function not allowed.

Missing vertical, horizontal segment not allowed.

Segment Contrast defect not allowed.

Viewing angle defect not allowed.

Current consumption exceeds product specifications not allowed.

Display malfunction not allowed.

Pervious to light be not allowed.

Picture had shake, twinkle and noise etc. instable of defect that be not allowed.



◆Specification For PH800480T-013-I01Q: (Ver.01) Cross stalk not allowed. Image persistence not allowed. BM light leakage not allowed. 5. Sub pixel classification Sub Pixel: a> Bright dot <= 1Dot, Dark dot <= 2Dot, Total <= 3Dot b> Two or more dots link together doesn't be allowed Sub Pixel (Dot) Pixel: Three dots link together doesn't allowed Pixel If bubbles are visible, judge using black spot specifications, not Polarizer bubbles easy to find, must check in specify direction.

Size	Acceptable QTY			
	A.A	V.A		
φ≦0.3	Ignore	Ignore		
$0.3 < \varphi \leq 0.6$	3	4		

Chipped glass

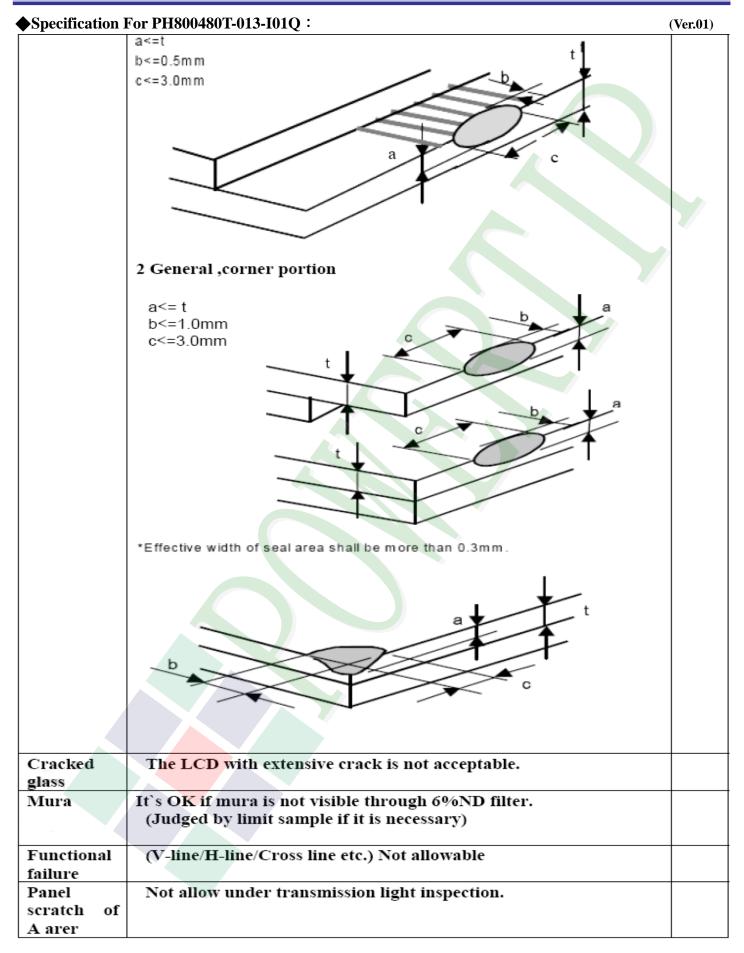
Symbols:

a: Chip length b: Chip width c: Chip thickness

t: Glass thickness

1 ITO electrode







◆Specification For PH800480T-013-I01Q: (Ver.01)			
Backlight	1 Illumination source flickers when lit.		
elements	2 Spots or scratches that appear when lit must be judged		
	using LCD spot, lines and contamination standards.		
	3 Backlight doesn't light or color is wrong.		
	4 No bezel with rusty spot.		
	5 No bezel deformed.		
	6 No greasiness.		
	7 No bezel with bump.		
	8 No bezel with scratch.		
	9 No poor electroplating.		
Soldering	1 No unmelted solder paste may be present on the PCB.		
& FPC	2 No cold solder joints, missing solder connections, oxidation or		
	icicle.		
	3 No residue or solder balls on PCB.		
	4 No short circuits in components on PCB.		
	5 No copper floated.		
	6 No release paper missing or stripping.		
	7 No Gold finger smudginess.		
	8 No ground pad smudginess.		
	9 No ground pad scratch.		
	10 No ground pad with dark spot.		
General	1 No oxidation, contamination, curves or, bends on interface pin		
appearance	(OLB) of TCP.		
	2 No cracks on interface pin(OLB) of TCP		
	3 NO contamination, solder residue or solder balls on product.		
	4 The IC on the TCP may not be damaged, circuits.		
	5 The residual rosin or tin oil of soldering (component or chip		
	component) is not burned into brown or black color.		
	6 Sealant on top of the ITO circuit has not hardened		
	7 Pin type must match type in specification sheet.		
	8 No LCD pin loose or missing pins.		
	9 No release paper stripped from PLZ		
	10 LCD discolored not allowed.		
	11 No conducting layer smudginess.		
	12 Panel surface smudged not allowed.		
	13 Polarizer skewing, smudginess and bad edge not allowed.		
	14 Product packaging must the same as specified on packaging		
	specification sheet.		
	15 Product dimension and structure must conform to product		
	specification sheet.		
	16 Reject ratio no more than 3000 PPM.		
	17 AQL: GB/T2828.1-2003 LEVEL 2 MAJ. =0.4 ,MIN. = 0.65		
	18 MTBF 20K hrs		



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	$-30^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow +80^{\circ}\text{C} \rightarrow +25^{\circ}\text{C}$ $(30\text{mins}) (5\text{mins}) (5\text{mins})$ $\downarrow \qquad \qquad$	
5	ESD Test	Air Discharge: Apply 2 KV with 5 times Discharge for each polarity +/- 1. Temperature ambiance: 15° C $\sim 35^{\circ}$ C 2. Humidity relative: $30\% \sim 60\%$ 3. Energy Storage Capacitance(Cs+Cd): $150pF\pm10\%$ 4. Discharge Resistance(Rd): $330\Omega\pm10\%$ 5. Discharge, mode of operation: Single Discharge (time between successive discharges at least 1 sec) (Tolerance if the output voltage indication: $\pm 5\%$)	
6	Vibration Test (Packaged)	 Sine wave 10 55 Hz frequency (1 min) The amplitude of vibration :1.5 mm Each direction (X \ Y \ Z) duration for 2 Hrs 	
7	Drop Test (Packaged)	Packing Weight (Kg) Drop Height (cm) 0 ~ 45.4 122 45.4 ~ 90.8 76 90.8 ~ 454 61 Over 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.

5.3 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.

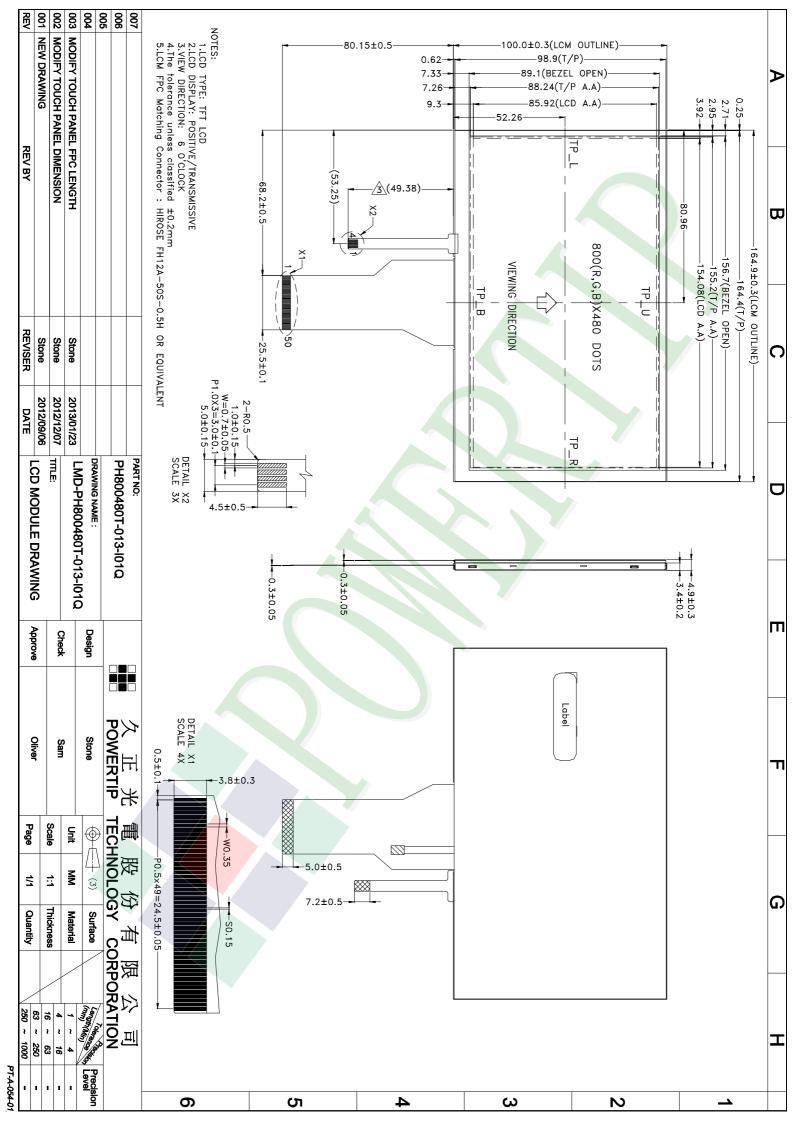
5.4 TERMS OF WARRANTY

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 PKG-PH800480T-013-I01Q Oliver Sam Stone Documents NO. 1.包裝材料規格表 (Packaging Material): (per carton) No. Item Model 1Pcs Weight Total Weight Dimensions (mm) Quantity 成品 (LCM) 1 PH800480T-013-I01Q 164.9 X 100.0 60 9.6 0.16 2 靜電袋(1)Antistatic Bag BAG240170ARABA 240 X 170 0.0048 0.288 60 3 310 X 250 X 90 上蓋(2)EPE FOAM00000078 0.1 0.44 下座(3)EPE FOAM000000079 310 X 250 X 100 0.17 4 0.68 海綿墊(4)Foam Rubber Cushion 290 X 240 X 10 5 OTFOAM00006ABA 0.0058 8 0.0464 外紙箱(5)Carton BX52732536CCBA 527 X 325 X 360 6 1.092 1.092 7 8 9 - 整箱總重量 (Total LCD Weight in carton): 12.11 Kg±10% 3.單箱數量規格表 (Packaging Specifications and Quantity): (1) Total LCD quantity in carton: quantity per box 15 x no of boxes 60 (4)海綿墊 Foam Rubber Cushion (2)上蓋 (5)外紙箱 Carton (1)靜電袋+LCM Antistatic Bag+LCM (3)下座 **EPE** 事 特 項 (REMARK) 記 5. 包裝數量不足時需以EPE(舒美 4. Label Specifications: 墊)塡補空槽 TYPE EPE:OTFOAMEP0003BA自裁成 ID.NO S/0 (166.5X109.0X10mm) Pcs Date Q'TY Lot.NO Note 參照"成品包裝點檢作業標準書"內容