SPECIFICATIONS

CUSTOMER . PTC

SAMPLE CODE . SG24064LRU-EGAHP5Q

MASS PRODUCTION CODE . PG24064LRU-EGAHP5Q

SAMPLE VERSION . 01

SPECIFICATIONS EDITION . 003

DRAWING NO. (Ver.) . JLMD- PG24064LRU-EGAHP5Q_001

PACKAGING NO. (Ver.) . JPKG- PG24064LRU-EGAHP5Q_002

Customer Approved

Date:

POWERTIP 2013.11.08 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

Date (mm / dd / yyyy)	Ver.	Edi.	Description	Page	Design by
03/29/2013	01	001	New Drawing		Bruce
06/17/2013	01	002	New Sample	-	Bruce
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					\

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1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	240 * 64 Dots
LCD Type	STN,Y/G,Positive, Transflective, Extended Temp
Driver Condition	LCD Module : 1/64 Duty, 1/9 Bias
Viewing Direction	6 O'clock
Backlight Type	LED B/L
Weight	159.6g
Interface	-
Controller / Driver IC	SAP1024B
	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	180.0 (W) * 65.0 (L) * 13.1 (H)(MAX)	mm		
Viewing Area	132.6 (W) * 39.0 (L)	mm		
Active Area	127.16(W) * 33.88 (L)	mm		
Dot Size	0.49 (W) * 0.49 (H)	mm		
Dot Pitch	0.53 (W) * 0.53 (H)	mm		

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	7	V
Input Voltage	VIN	•	-0.3	VDD+0.3	V
Operating Temperature	T _{OP}	-	-20	+70	°C
Storage Temperature	T _{ST}	•	-30	+80	°C
Storage Humidity	H _D	Ta < 60 °C	-	90	%RH



1.4 DC Electrical Characteristics

 $VDD = 5.0 \pm 0.5V$, VSS = 0V, Ta = 25°C

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Logic Supply Voltage	VDD	-	2.7	5.0	5.5	٧
"H" Input Voltage	V _{IH}	-	VDD-2.2	·	VDD	V
"L" Input Voltage	V _{IL}	-	0	-	0.8	٧
"H" Output Voltage	V _{OH}	-	VDD-0.3	1	VDD	A
"L" Output Voltage	V _{OL}	-	0	-	0.3	٧
Supply Current	IDD	VDD= 5.0V; Vop= 11.6V; Pattern= Text *1	-	17	-	
Supply Current	IDD	VDD= 5.0V; Vop= 11.6V; Pattern= Horizontal line *1	-	19.3	30	mA
		-20°C	12.0	12.3	12.6	
LCM Driver Voltage	Vop	+25°C	11.4	11.6	11.8	V
		+70°C	10.0	10.3	10.6	

Note: *1. The Maximum current display.
*2. The Vop test point is VDD – V0.





1.5 Optical Characteristics

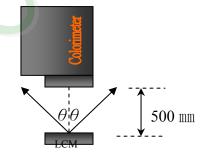
LCD Panel: 1/64Duty · 1/9Bias, $V_{LCD}=11.6$ V · Ta = 25°C

Item		Symbol	Conditions	Min.	Тур.	Max.	Unit	Reference
Response Time	Rise	tr		-	78	117	me	Note2
Response Time	Fall	tf		-	194	291	ms	Note2
	Тор	ΘY+	C≥2.0,	-	40	-		
Viewing angle	Bottom	ΘΥ-	Ø =270°	-	40	-	Dag	Natas 1
range	Left	ΘX-		-	45	-	Deg.	Notes 1
	Right	ΘX+		-	45	-		
Contrast Rat	io	С	$\theta = 5^{\circ},$ $\emptyset = 270^{\circ}$	-	3.5	·	-	Note 3
Average Bright (with LCD)		IV	IF= 140mA	4	6	-	cd/m2	Note 4
Uniformity '	*1	△B		70	-		%	

Note 4:

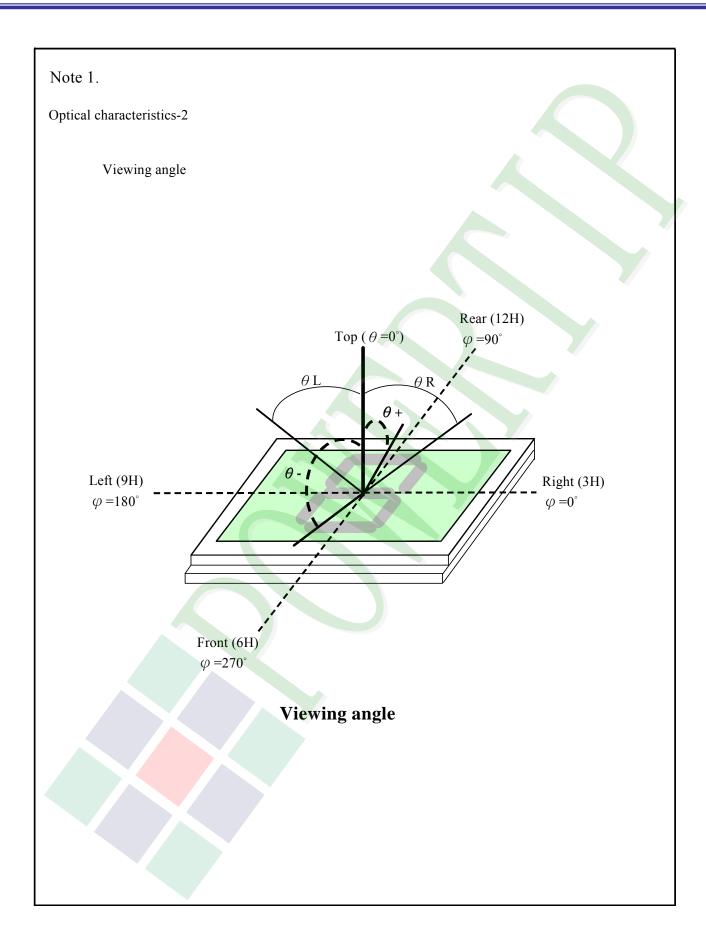
- $1 : \triangle B=B(min) / B(max) * 100\%$
- 2: Measurement Condition for Optical Characteristics:
 - a : Environment: $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ / $60\pm 20\%$ R.H , no wind , dark room below 10 Lux at typical lamp current and typical operating frequency.
 - b: Measurement Distance: $500 \pm 50 \text{ mm}$, $(\theta = 0^{\circ})$
 - 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 $\pm 4\%$



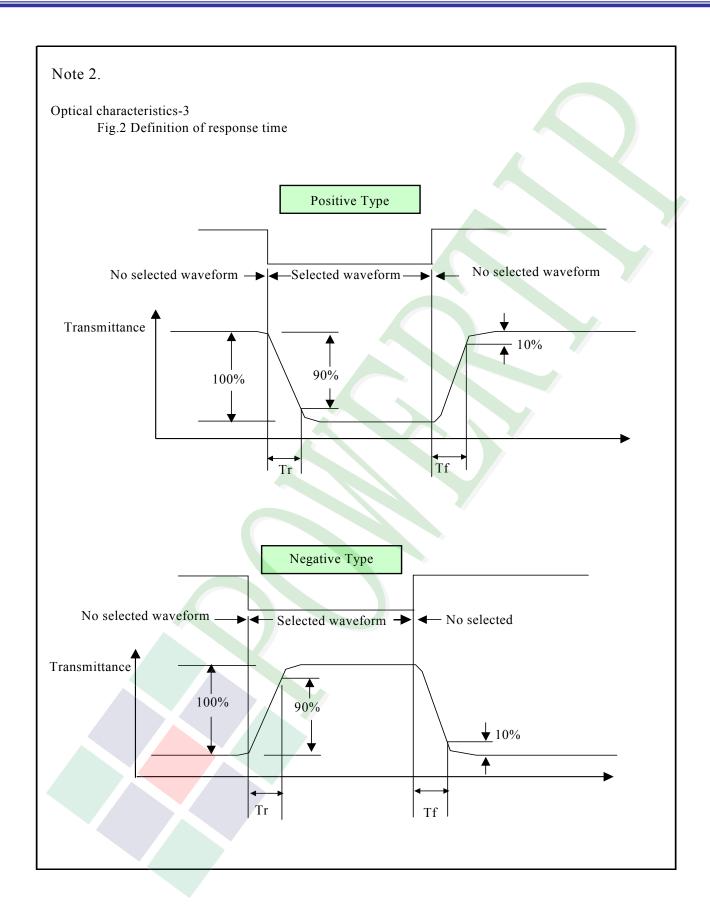


Colorimeter=BM-7 fast









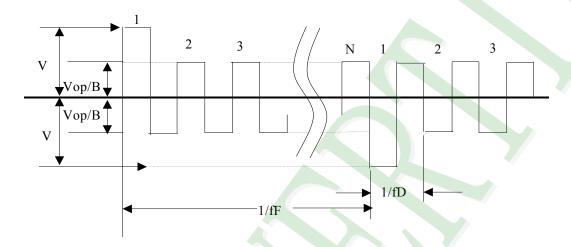


Electrical characteristics-2

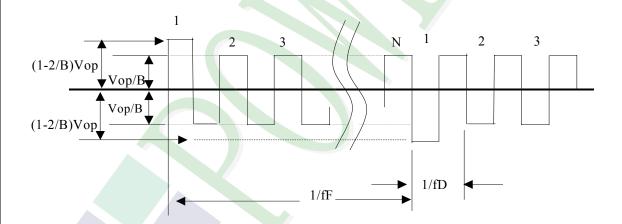
※2 Drive waveform

Vop: Drive voltage fF: Frame frequency 1/B: Bias fD: Drive frequency N: Duty

(1) Selected waveform



(2) Non- Selected wave form

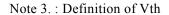


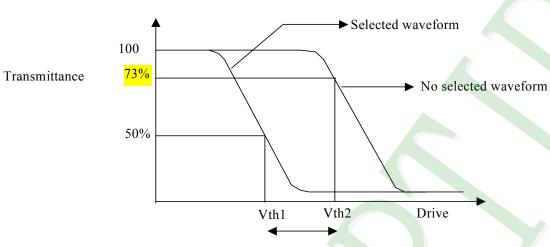
Note:

Frame frequency is defined as follows: Common side supply voltage peak - to - peak /2 = 1 period

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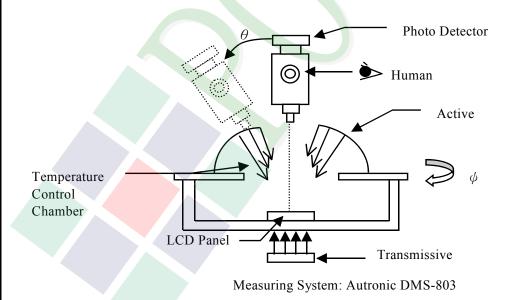
Active voltage range

	Vth1	Vth2
View direction	10°	40 °
Drive waveform	(Selected waveform)	(No selected waveform)
Transmittance	50%	73%

※1 Contrast ratio

= (Brightness in OFF state) / (Brightness in ON state)

Outline of Electro-Optical Characteristics Measuring System





1.6 Backlight Characteristics

Maximum Ratings

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Current	IF	Ta =25°C		350	mA
Reverse Voltage	VR	Ta =25°C		10	V
Power Dissipation	PO	Ta =25°℃		1.61	W

Electrical / Optical Characteristics

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF= 140mA	1	4.2	4.6	V
Reverse Current	IR	VR=10V	-	-	0.14	mA
Wavelength	λР	IF=140mA	569	-	576	nm
Average Brightness	IV	IF=140mA	24	30	-	cd/m ²
Color	Yellow-green					





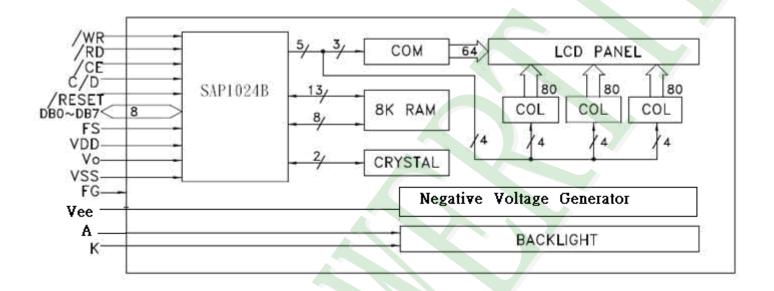
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram



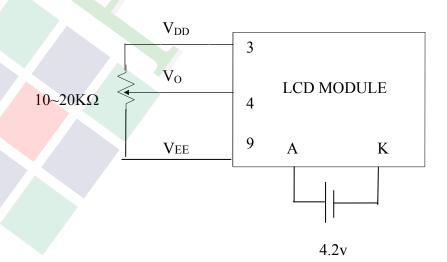


2.2 Interface Pin Description

Pin No.	Symbol	Signal Description		
1	FG	Frame ground(connect to metal bezel)		
2	V_{SS}	Power Supply (VSS=0)		
3	$V_{ m DD}$	Power Supply (VDD>VSS)		
4	Vo	Operating Voltage for LCD.		
5	/WR	Data write(write data to the module at "L")		
6	/RD	Data read(read data from the module at"L")		
7	/CE	Chip enable for the module(active at "L")		
0	C/D	/WR="L",C/D="H":command write,C/D="L":data write		
8	C/D	/RD ="L",C/D="H":command read,C/D="L":data read		
9	VEE	Power supply for LCD drive(should be variable)		
10	/RESET	Controller reset(module reset)		
11	DB0	Data bus		
12	DB1	Data bus		
13	DB2	Data bus		
14	DB3	Data bus		
15	DB4	Data bus		
16	DB5	Data bus		
17	DB6	Data bus		
18	DB7	Data bus		
19	FS	Font select:connect to VDD:6×8 Dots font		
17	1.9	connect to VSS:8×8 Dots font		
20	N/A	Not connection		

2.2.1 Application Notes:

Contrast Adjust



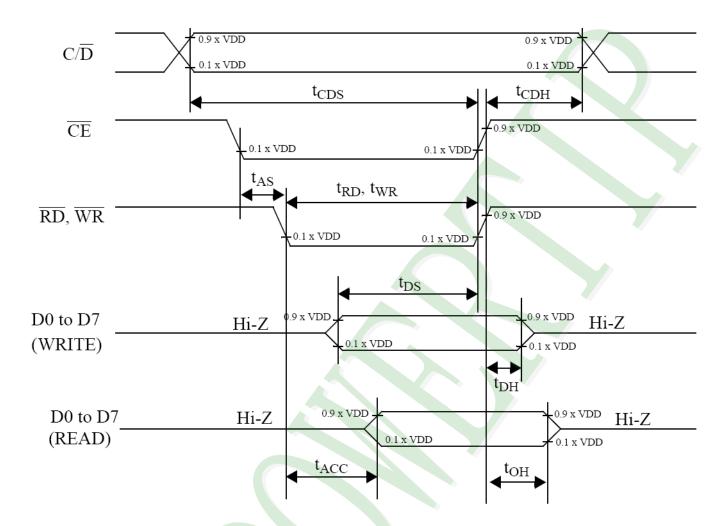


2.2.2 Refer Initial code

```
void int sap1024()
                                          //set text home address
write_data(0x00);
write data(0x00);
write_com(0x40);
write data(0x1e);
                                          //set text home area
write_data(0x00);
write com(0x41);
write_data(0x80);
                                          //set graphic home address
write data(0x07);
write com(0x42);
                                          //set graphic home area
write_data(0x1e);
write data(0x00);
write_com(0x43);
                                          // set offset register
write_data(0x00);
write_data(0x00);
write com(0x22);
                                       //select 8-line cursor
write_com(0xa7);
                                       //select internal CG ROM mode
write_com(0x81);
write com(0x90);
                                       //set text off, graphic off, cursor off, blink off
```



2.3 Timing Characteristics



VDD=5.0V ± 0.5 V, VSS=0, Ta=25°C

symbol	parameter	MIN.	MAX.	test conditions	Unit
t _{CDS}	C/D set-up time	100			ns
t _{CDH}	C/D hold time	10			ns
t_{RD} , t_{WR}	RD, WR pulse width	80			ns
t _{AS}	Address set-up time	0			ns
t _{AH}	Address hold time	0			ns
t _{DS}	Data set-up time	80			ns
t _{DH}	Data hold time	40		Note	ns
t _{ACC}	Access time		150	Note	ns
toн	Output hold time	10	50	Note	ns

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2.4 Display command

COMMAND	CODE	OPERAND 1	OPERAND 2	FUNCTION
D	0010 0001	X address	Y address	Set cursor pointer
Register Setting	0010 0010	Data	00H	Set offset register
Cetting	0010 0100	Low address	High address	Set address pointer
	0100 0000	Low address	High address	Set text home address
Set Control	0100 0001	Columns	00H	Set text area
Word	0100 0010	Low address	High address	Set graphic home address
	0100 0011	Columns	00H	Set graphic area
	1000 x000			OR mode
	1000 x001			EXOR mode
Mode Set	1000 x011			AND mode
wode Set	1000 x100			Text Attribute mode
	1000 0xxx			Internal CG ROM mode
	1000 1xxx			External CG RAM mode
	1001 0000			Display OFF.
	1001 xx10			Cursor ON, blink OFF.
Dianlay mada	1001 xx11			Cursor ON, blink ON.
Display mode	1001 01xx			Text ON, graphic OFF.
	1001 10xx			Text OFF, graphic ON.
	1001 11xx			Text ON, graphic ON.
	1010 0000			Selec one-line cursor.
	1010 0001			Select two-line cursor.
	1010 0010			Select three-line cursor.
Cursor Pattern	1010 0011			Select four-line cursor.
Select	1010 0100			Select five-line cursor.
	1010 0101			Select six-line cursor.
	1010 0110			Selec seven-line cursor.
	1010 0111			Select eight-line cursor.
Data Auto	1011 0000			Select Data Auto Write
Data Auto Read/Write	1011 0001			Select Data Auto Read
rcad/vinte	1011 0010			Reset Auto Read/Write

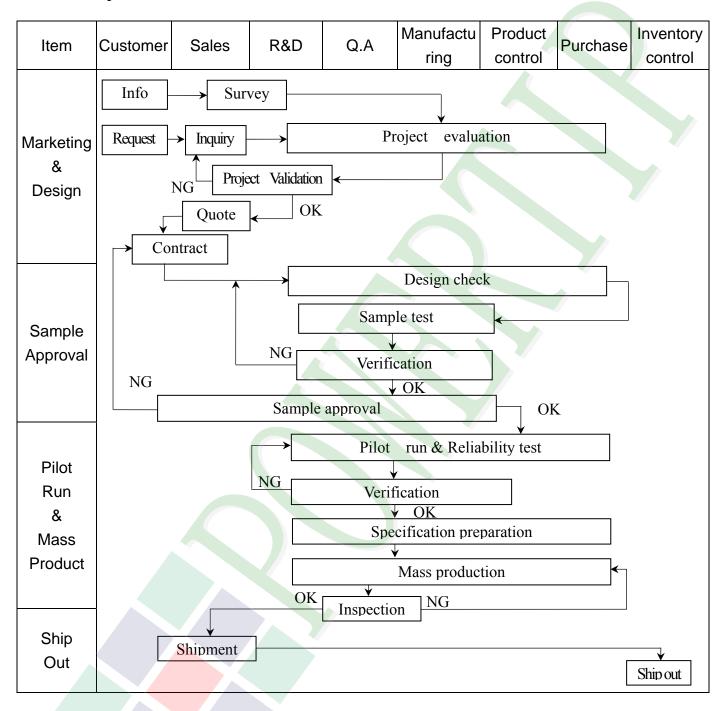


COMMAND	CODE	OPERAND 1	OPERAND 2	FUNCTION
	1100 0000	Data		Data Write and increment Address Pointer
	1100 0001			Data Read and increment Address Pointer
Data READ /	1100 0010	Data		Data Write and decrement Address Pointer.
WRITE	1100 0011			Data Read and decrement Address Pointer
	1100 0100	Data		Data Write and Keep Address Pointer
	1100 0101			Data Read and Keep Address Pointer
Screen Peek	1110 0000			Screen peek
Screen Copy	1110 1000			Screen copy
	1111 0xxxx			Bit Reset
	1111 1xxxx			Bit Set
	1111 x000			Bit 0
	1111 x001			Bit 1
Bit Set/Reset	1111 x010			Bit 2
DII Sel/Resel	1111 x011			Bit 3
	1111 x100			Bit 4
	1111 x101			Bit 5
	1111 x110			Bit 6
	1111 x111			Bit 7

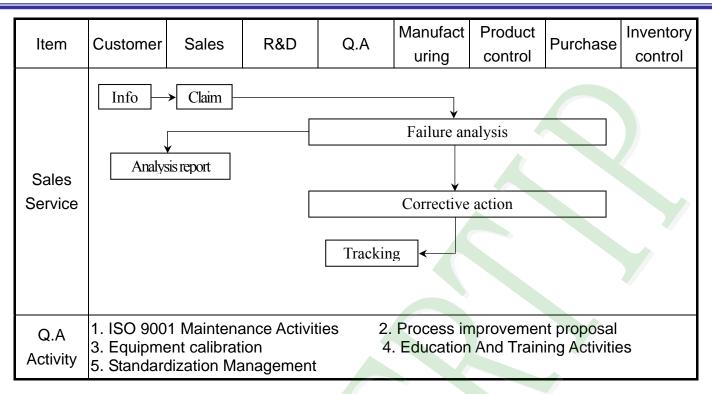


3. QUALITY ASSURANCE SYSTEM

3.1 Quality Assurance Flow Chart









3.2 Inspection **Specification**

- ◆Scope : The document shall be applied to LCD Module for Monotype and Color STN(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 .
- ◆Manner of appearance test :
 - (1). The test be under 20W×2 fluorescent light 'and distance of view must be at 30 cm.
 - (2). Standard of inspection: (Unit: mm)
 - (3). The test direction is base on about around 45° of vertical line. (Fig. 1)
 - (4). Definition of area . (Fig. 2)

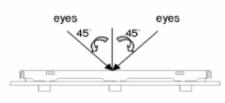


Fig.1

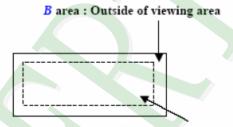


Fig. 2 🔏 area : viewing area

Specification:

NO	Item	Criterion	
		1. 1 The part number is inconsistent with work order of Production.	Major
01	Product condition	1. 2 Mixed production types.	Major
		1. 3 Assembled in inverse direction.	Major
02	Quantity	2. 1 The 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
		4. 2 No function or no display.	Major
04	Electrical Testing	4. 3 Output data is error.	Major
		4. 4 LCD viewing angle defect.	Major
		4. 5 Current consumption exceeds product specifications.	Major

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♦Specification For Monotype and Color STN:

(Ver.B01)

NO	Item	C	riterio	on				Level
	Black or white dot \ scratch \ contamination	 5. 1 Round type: 5. 1. 1 display only: White and black spots on 4 white or black spots pr Densely spaced: NO more 	esent.					
	Round type	5, 1, 2 Non-display : Dimension (diameter : Φ)	A	Acceptance A area	(Q't			
0E	$+$ $ _{X}$ $ _{Y}$	$\Phi \le 0.10$ $0.10 < \Phi \le 0.20$	Acce	ept no dense	_			35.
05	$\Phi = (x+y)/2$	$0.20 < \Phi \leq 0.30$ Total quantity		2 4		gnore		Minor
		5. 1. 3 Line type: Dimension		Accen	tanc	e (Q'ty)		
	Line type	Length (L) Width (W)		A area	Tanc	B area	\dashv	
	$\longrightarrow \stackrel{L}{\longrightarrow} \stackrel{\stackrel{\downarrow}{\bullet}}{\longrightarrow} W$	W ≤ (Accept no de	nse			
		$L \le 3.0$ $0.03 < W \le 0$	0. 05	4		Ignore	e	
		$L \le 2.5 \qquad 0.05 < W \le 0.$ $W > 0.05 < W \le 0.$		Ası	roun	d type		
		Dimension (diameter : Φ)		Acceptano A area	ce (Q	'ty) Bare	a	
		$\Phi \leq 0.20$		Accept no dense				
06	Polarizer	$0.20 < \Phi \leq 0.50$	110	3				Minor
	Bubble	$0.50 < \Phi \le 1.00$ $\Phi > 1.00$		0		Ignore		
		Total quantity		4				
					•			



♦Specification For Monotype and Color STN:

(Ver. B01)

NO	Item	Criterion		Level
		Symbols: X: The length of crack Z: The thickness of crack t: The thickness of glass a:		
		7.1 General glass chip: 7.1.1 Chip on panel surface and crack	between panels:	
		Y Z	Z X	
07	The crack of glass	SP Y Y	[NG]	Minor
		Seal width Z	Y	
		X Y	z	
		≦ a Crack can't enter viewing area	≦1/2 t	
		≤ a Crack can't exceed the half of SP width.	1/2 t < Z ≤2 t	



◆Specification For Monotype and Color STN:

(Ver. B01)

NO	Item	Criterion I		
		Symbols: X: The length of crack Z: The thickness of crack t: The thickness of glass 7. 1. 2 Corner crack:		
		X Y Z		
	The crack of		≤1/5 a Crack can't enter viewing area Z ≤ 1/2 t	
		$\leq 1/5$ a Crack can't exceed the half of SP width. 1/2 t < Z ≤ 2 t		
07	glass	7.2 Protrusion over terminal:	Minor	
		7. 2. 1 Chip on electrode pad:		
		X X Y Z		
		X		
		X Y Z		
		Front \leq a \leq 1/2 W \leq t		
		Back Neglect		



◆Specification For Monotype and Color STN:

(Ver. B01)

NO	Item	Criterion	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	
		7.2.2 Non-conductive portion:	
07	The crack of glass	X Y Z $\leq 1/3$ a $\leq W$ $\leq t$ \odot If the chipped area touches the ITO terminal, over $2/3$ of	Minor
		the ITO must remain and be inspected according to electrode terminal specifications. 7. 2. 3 Glass remain:	
		$\begin{array}{c cccc} X & Y & Z \\ & \leq a & \leq 1/3 \text{ W} & \leq t \end{array}$	



◆Specification For Monotype and Color STN:

(Ver.B01)

NO	Item	Criterion	Level
08	Backlight elements	8. 1 Backlight can't work normally.	Major
		8. 2 Backlight doesn't light or color is wrong.	Major
		8. 3 Illumination source flickers when lit.	Major
09	General appearance	9. 1 Pin type must match type in specification sheet.	Major
		9. 2 No short circuits in components on PCB or FPC.	Major
		9. 3 Product packaging must the same as specified on packaging specification sheet.	Minor
		9. 4 The folding and peeled off in polarizer are not acceptable.	Minor
		9. 5 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)

	Tenashity rest condition (ven.bor)				
NO.	TEST ITEM	TEST CONDITION			
1	High Temperature	Keep in 80 ±2℃ 96 hrs			
1	Storage Test	Surrounding temperature, then storage at normal condition 4hrs.			
2	Low Temperature	Keep in −30 ±2°C 96 hrs			
	Storage Test	Surrounding temperature, then storage at normal condition 4hrs.			
	High Temperature /	Keep in $+60$ $^{\circ}$ C / 90% R.H duration			
3	High Humidity	Surrounding temperature, then storage at normal condition 4hrs.			
	Storage Test	(Excluding the polarizer)	0000		
			\rightarrow 80°C \rightarrow +25°C		
4	Temperature Cycling	(30mins) (5mins)	(30mins) (5mins)		
_	Storage Test	10 (Cycle		
		Surrounding temperature, then ste	orage at normal condition 4hrs.		
		Air Discharge:	Contact Discharge:		
		Apply 2 KV with 5 times	Apply 250 V with 5 times		
		Discharge for each polarity +/-	discharge for each polarity +/-		
		1. Temperature ambiance : 15℃			
5	ESD Test	2. Humidity relative : $30\% \sim 60\%$			
		3. Energy Storage Capacitance(C	_		
		4. Discharge Resistance(Rd): 330 Ω±10%			
		5. Discharge, mode of operation:			
			uccessive discharges at least 1 sec)		
		(Tolerance if the output voltage in	· · · · · · · · · · · · · · · · · · ·		
	Vibration Test	1. Sine wave $10 \sim 55$ Hz frequence	• •		
6	(Packaged)	2. The amplitude of vibration :1.			
	. 0 /	3. Each direction (X · Y · Z) du	ration for 2 Hrs		
		Packing Weight (Kg	Drop Height (cm)		
		0 ~ 45.4	122		
	Drop Test (Packaged)	45.4 ~ 90.8	76		
7		90.8 ~ 454	61		
		0ver 454	46		
		Drop Direction: 1 corner / 3 edg	es / 6 sides each 1time		

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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

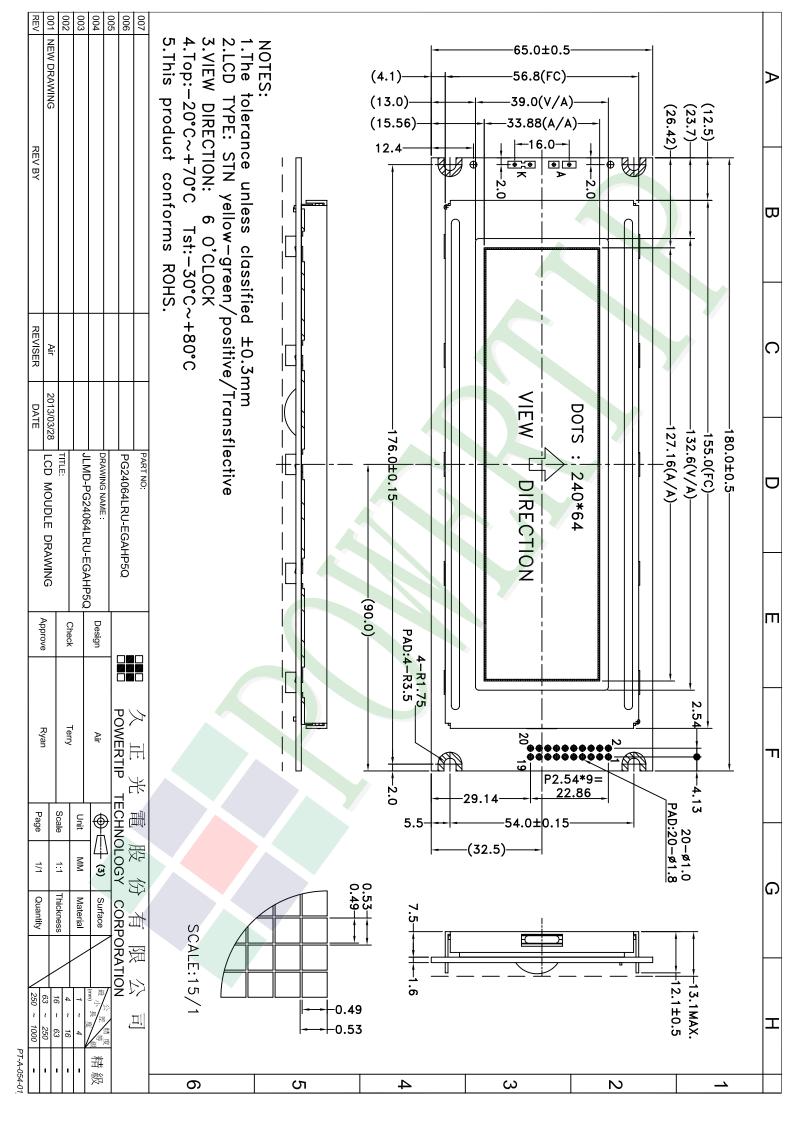
- 5.2.1 Avoid any strong mechanical shock which can break the glass.
- 5.2.2 Avoid static electricity which can damage the CMOS LSI—When working with the module, be sure to ground your body and any electrical equipment you may be using.
- 5.2.3 Do not remove the panel or frame from the module.
- 5.2.4 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

5.3 STORAGE

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



Check Approve Contact Ver.002 LCM包裝規格書 Air Terry Documents NO. JPKG-PG24064LRU-EGAHP50 Ryan LCM Packaging Specifications 1.包裝材料規格表 (Packaging Material): (per carton) No. Item Model Dimensions (mm) 1Pcs Weight Total Weight Quantity 180.0*65.0*13.1 1 成品(1)(LCM) PG24064LRU-EGAHP5Q 0.1596 104 16.5984 2 靜電袋 (2)BAG BAG250100ARABA 250*100*0.06 0.002 0.208 104 3 氣泡墊(3)BAG 240*290*5 0.0029 16 BAG290240BRBBA 0.0464 4 0.011 刀卡A2(4)BX 104 BX29500072BZBA 295*72*3 1.144 5 刀卡B2(5)BX 0.01 32 BX24500072BZBA 245*72*3 0.32 6 C2內盒(6)Product Box BX31025580AABA 310*255*86 0.221 8 1.768 7 1.092 外紙箱(7)Carton BX52532536CCBA 525*325 *360 1 1.092 8 9 2.一 整箱總重量 (Total LCD Weight in carton): 21.18 Kg±10% 取兩位小數 3.單箱數量規格表 (Packaging Specifications and Quantity): (1)Quantity Of Spacer A2刀卡 B2刀卡 13 ; (2)Total LCM quantity in carton: quantity per box 13 x no. of boxes 104 (3) 氣泡墊. Foam Rubber Cushion (2)靜電袋+(1)LCM Antistatic Bag+LCM (5) B2刀卡-**B2** Partition (4) A2刀卡 A2 Partition 仆 (3) 氣泡墊 Foam Rubber Cushion (7)外紙箱 Carton (6)C2內盒 Product Box 記 事 項 (REMARK) 4. 標籤依廠內標準作業 5. LCM排放示意圖(前後間隔不放置): 前七后六.最外一欄面朝里放 5. LCM placed as figure showing: 置,其余面朝外. (First and last slot should be empty) 每啤盒裝13PCS 類模組(LCM) X 1pcs.