SPECIFICATIONS

CUSTOMER : PTC

SAMPLE CODE : SG240128WRFAGAHPCQ

MASS PRODUCTION CODE : PG240128WRFAGAHPCQ

SAMPLE VERSION : 03

SPECIFICATIONS EDITION : 008

DRAWING NO. (Ver.) : JLMD-PG240128WRFAGAHPCQ_001

PACKAGING NO. (Ver.) : JPKG-PG240128WRFAGAHPCQ_003

Customer Approved

Date:



Approved	Checked	Designer
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- Preliminary specification for design input
- Specification for sample approval

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RECORDS OF REVISION

Date	Ver.	Edi.	Description	Page	Design by
(mm / dd / yyyy) 07/21/2006	0	-	PG240128WRFAGAHPCQ is the ROSH compliant part number based on Powertip's standard PG240128WRF-AGAHPC	-	-
08/14/2007	Α	-	Update Backlight Characteristics	-	-
12/30/2010	02	003	Modify LCM Mechanical Diagram	9	Kyo
10/11/2013	02	004	Add Display Command 7&Packaging	22, Appendix	Bruce
11/08/2013	02	005	Update Specification	- /	Bruce
12/26/2013	02	006	Modify Backlight Forward Voltage	11	Bruce
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		人			
	X				

Total: 28 Pages



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1. SPECIFICATIONS

1.1 Features

Standard Value
240*128 dots
FSTN, White Transflective, Positve,Extended temp
LCD Module :1/128Duty, 1/12Bias
6 O'clock
White LED B/L
170.5g
-
SAP1024B
THIS PRODUCT CONFORMS THE ROHS OF PTC Detail information please refer web site: http://www.powertip.com.tw/news.php?area_id_view=1085560481/

1.2 Mechanical Specifications

= moonamoar opoomoad	16116	
Item	Standard Value	Unit
Outline Dimension	144.0(L)*104.0(W)*16.0(H)(MAX)	mm
Viewing Area	114.0(L)*64.0(W)	mm
Active Area	107.95(L)*57.55(W)	mm
Dot Size	0.40(L)*0.40(W)	mm
Dot Pitch	0.45(L)*0.45(W)	mm

Note: For detailed information please refer to LCM drawing

1.3 Absolute Maximum Ratings

Item	Symbol	Condition	Min.	Max.	Unit
Power Supply Voltage	V_{DD}	-	-0.3	7.0	V
LCD Driver Supply Voltage	V _{EE}	-	0	22.0	V
Input Voltage	V _{IN}	-	-0.3	V _{DD} +0.3	V
Operating Temperature	T _{OP}	Excluded B/L	-20	70	$^{\circ}\!\mathbb{C}$
Storage Temperature	T _{ST}	Excluded B/L	-30	80	$^{\circ}\!\mathbb{C}$
Storage Humidity	H _D	Ta<60 ℃	-	90	%RH



1.4 DC Electrical Characteristics

Ta = 25°C

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Logic Supply Voltage	V_{DD}	-	4.5	5.0	5.5	V
"H" Input Voltage	V _{IH}	-	V _{DD} -2.2	-	V_{DD}	V
"L" Input Voltage	V _{IL}	-	0	-	0.8	٧
"H" Output Voltage	V _{OH}	-	V _{DD} -0.3	1	V_{DD}	٧
Operating Frequency	f _{OSC}	-	0.4	-	5.5	MHz
"L" Output Voltage	V_{OL}	-	0	-	0.3	٧
Supply Current	I _{DD}	VDD =5.0V, V _{OP} =17.2V Pattern= Horizontal line*1	-	40	60	mA
		-20°C	18.1	18.3	18.5	
LCM Driver Voltage	V _{OP}	25°C*2	17.0	17.2	17.4	V
		70°C	16.5	16.7	16.9	

NOTE: *1 The Maximum current display

*2 The VOP test point is V_{DD} - V_{O}



1.5 Optical Characteristics

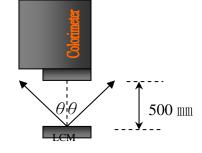
LCD Panel: 1/128Duty → 1/12Bias,VLcD=17.2V → Ta =25°C

Item		Symbol	Conditions	Min.	Тур.	Max.	Unit	Reference
Response Time	Rise	tr		-	110	170	ms	Note2
ixesponse fille	Fall	tf	_	-	240	360	1115	NOIGZ
	Тор	θ+		-	40	-		
Viewing angle	Bottom	θ-	C>2.0	ı	40	-	Deg.	Notes 1
range	Left	θL	0 <u>-</u> 2.0	-	45	-	Dcg.	110105 1
	Right	θR		-	45	-		
Contrast Ra	tio	С	θ= 0°	-	3	-	-	Note 3
Average Bright (with LCD)		IV		130	185	-	cd/m2	
Color of CIE Coo	ordinate	X	IF =160mA	0.26	0.31	0.36	-	Note 4
(with LCD)		Υ		0.29	0.34	0.39	-	
Uniformity *	*1	∆В		70	-	_	%	

Note 4:

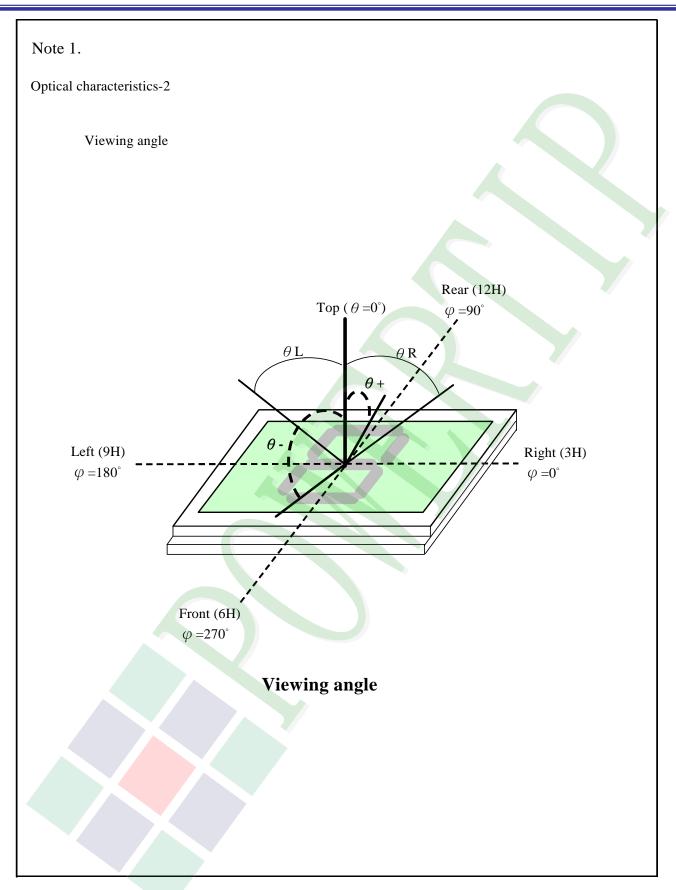
- 1 : △B=B(min) / B(max) * 100%
- 2 : Measurement Condition for Optical Characteristics:
 - a : Environment: 25°C±5°C / 60±20%R.H → no wind → dark room below 10 Lux at typical lamp current and typical operating frequency.
 - b : Measurement Distance: 500 \pm 50 mm \rightarrow (θ = 0°)
 - c: Equipment: TOPCON BM-7 fast, (field 1°), after 10 minutes operation.
 - d: The uncertainty of the C.I.E coordinate measurement ±0.01, Average Brightness ± 4%



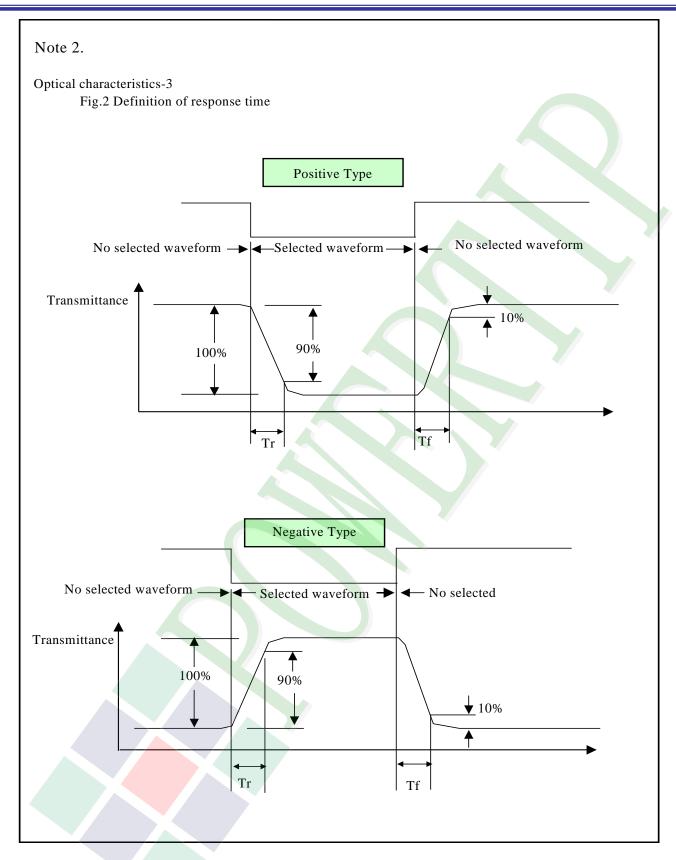


Colorimeter=BM-7 fast











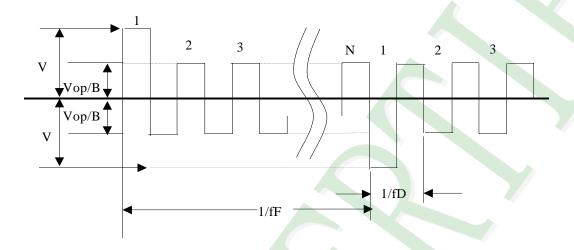
Electrical characteristics-2

※2 Drive waveform

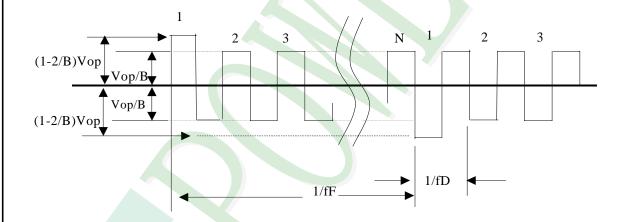
Vop: Drive voltage fF: Frame frequency 1/B: Bias fD: Drive frequency

N: Duty

(1) Selected waveform



(2) Non- Selected wave form



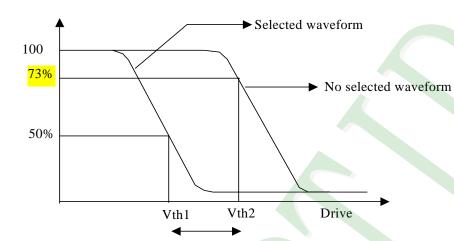
Note:

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





Transmittance



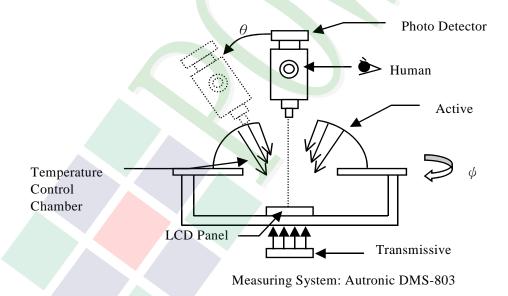
Active voltage range

	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

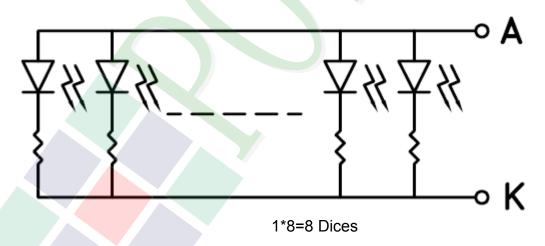
Maximum Ratings

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Current	IF	Ta =25°ℂ	-	200	mA
Reverse Voltage	VR	Ta =25°℃	-	5	V
Power Dissipation	РО	Ta =25°ℂ	- 🛝	760	mW

Electrical / Optical Characteristics

Item	Symbol	Conditions	Min	Тур	Max	Unit
Forward Voltage	VF		-	3.2	3.8	V
Average Brightness (Without LCD)	IV	IF = 160 mA	900	1280	7	cd / m ²
CIE Color Coordinate	Х	IF = 100 IIIA	0.27	>	0.32	-
(Without LCD)	Y		0.27	-	0.32	-
Uniformity	∆В		75	-	-	%
Reverse Current	IR	VR = 5 V	-	_	80	uA
Color			White			

Circuit diagram:





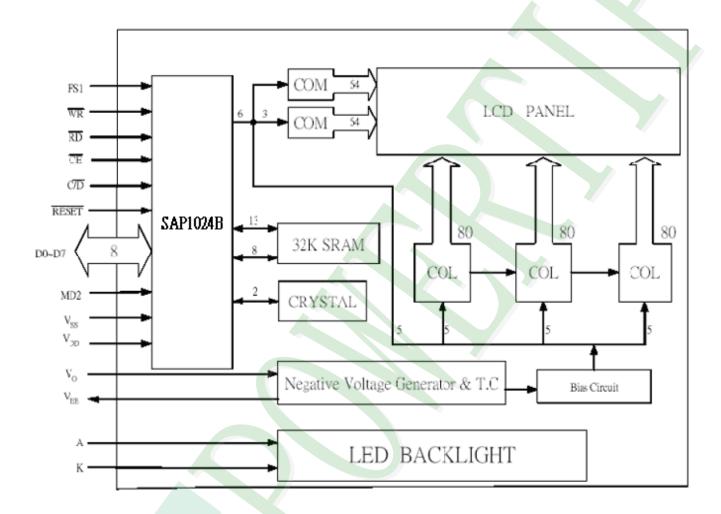
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram



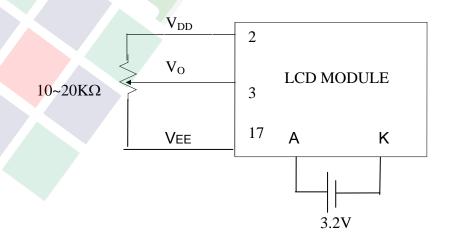


2.2 Interface Pin Description

Pin No.	Symbol	Function
1	V _{SS}	Power Supply (V _{SS} =0)
2	V_{DD}	Power Supply (V _{DD} >V _{SS})
3	Vo	Operating voltage for LCD (variable)
4	C/ D	\overline{WR} ="L";C/ \overline{D} = "H" :command write, C/ \overline{D} ="L":data write \overline{RD} ="L";C/ \overline{D} = "H" :command read, C/ \overline{D} ="L":data read
5	RD	Data read (read data from the module at "L")
6	WR	Data write (write data to the module at "L")
7~14	D0~D7	Data bus (D0=MSB, D7=LSB)
15	CE	Chip enable for the module (active at "L")
16	RESET	Controller reset (module reset)
17	V _{EE}	Power supply for LCD drive
18	MD2	Columns select ; connect to V _{DD} :32 columns connect to Vss :40 columns
19	FS1	Font select : connect to V _{DD} : 6*8 Dots font connect to Vss : 8*8 Dots font
20	NC	Not connection
Α	Α	B/L(+)
K	K	B/L(-)

2.2.1 Application Notes:

Contrast Adjust



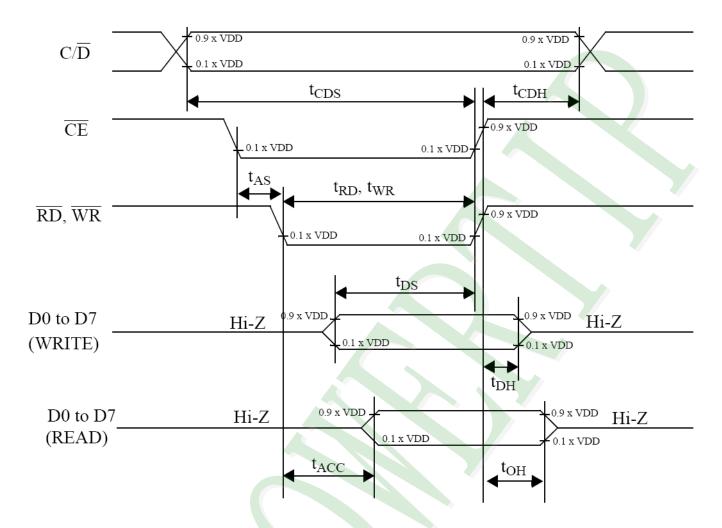


2.2.1 Application Notes:

```
void int_sap1024()
{
write data(0x00);
                                      //set text home address
write_data(0x00);
write com(0x40);
write_data(0x1e);
                                        //set text home area
write data(0x00);
write_com(0x41);
write data(0x00);
                                        //set graphic home address
write_data(0x0f);
write com(0x42);
write_data(0x1e);
                                        //set graphic home area
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±0.5V,VSS=0, Ta=25°C

symbol	parameter	MIN.	MAX.	test conditons	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
tон	Output hold time	10	50	Note	ns



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
Mada Cat	1000 x011			AND mode
Mode 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.
Diamley mode	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
read/vvrite	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
Dit Sel/Reset	1111 x011			Bit 3
	1111 x100			Bit 4
	1111 x101			Bit 5
	1111 x110			Bit 6
	1111 x111			Bit 7

2.5 Character Pattern

The relation between character codes and character pattern (CG ROM TYPE 0101)

LSB MSB	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
0																
1												+++++				
2																
3																
4															 	
5										▎ ▎▍▍						
6																
7																



The relation between character codes and character pattern (CG ROM TYPE 0201)

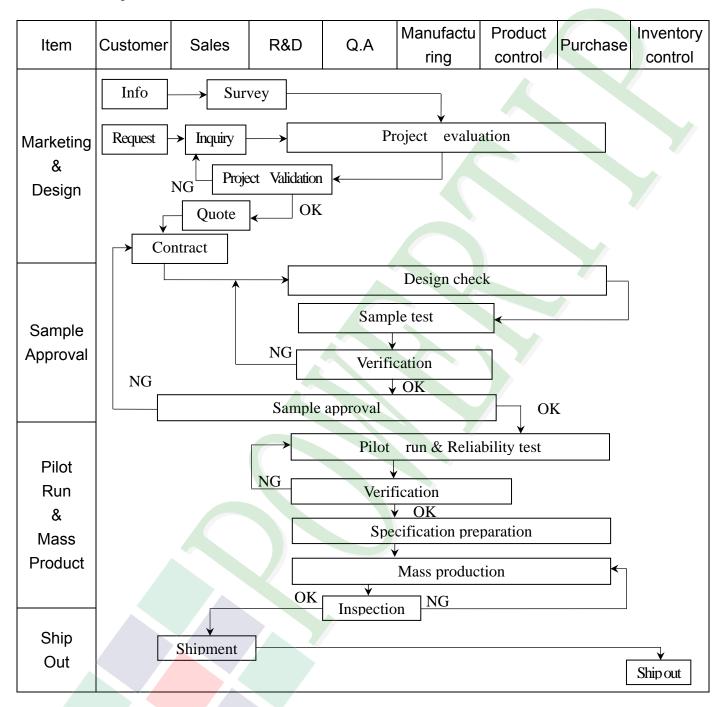
LSB MSB	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
0															M H 	
1																
2																
3																
4																
5																
6					 			 		 		 	 			
7																

2.6 Jumper Short: J9(1.3)/J6/JSS/J7/J8 Open: All the jumper unnoted.

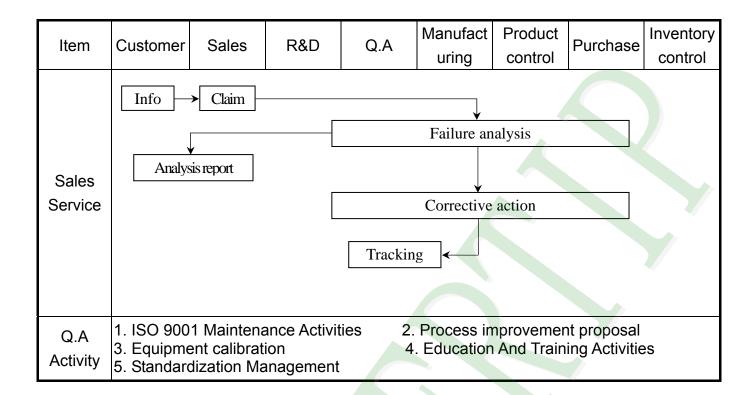


3. QUALITY ASSURANCE SYSTEM

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)

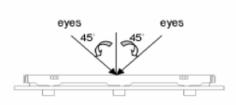


Fig.1

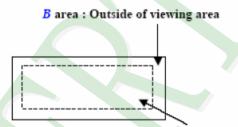


Fig. 2 A area: viewing area

♦ Specification:

NO	Item	Criterion	Level
		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.	Major
		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



NO	Item	C	Criterion			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.				
		5. 1. 2 Non-display : Dimension		Acceptance	(Q't	y)	
	Round type	(diameter : Φ)		A area	В	area	
		$\Phi \leq 0.10$	Acce	ept no dense			
0.5	TX I → Y	$0.10 < \Phi \leq 0.20$		3			
05		$0.20 < \Phi \leq 0.30$		2	I	gnore	Minor
	$\Phi = (x+y)/2$	Total quantity		4			
		5. 1. 3 Line type:	V				
	Line type	Dimension			tanc	e (Q'ty)	
	1	Length (L) Width (W)		A area		B area	
	✓ [¥] W	W ≦		Accept no de	nse		
	→ı _L	$L \le 3.0$ $0.03 < W \le 6$		4		Ignore	
		$L \le 2.5$ 0.05 $< W \le 0.$	075				
		W >0	. 075	As	roun	d type	
		Dimension		Acceptan	ce (Q		
		(diameter : Φ)		A area	_	B area	
		$\Phi \leq 0.20$	Ac	cept no dense	_		
06	Polarizer	$0.20 < \Phi \leq 0.50$	3				Minor
	Bubble	$0.50 < \Phi \le 1.00$		2		Ignore	
		Φ > 1.00		0			
		Total quantity	4				



NO	Item	Criterion		Level
		Symbols: X: The length of crack Z: The thickness of crack t: The thickness of glass a: 1		
		7.1 General glass chip: 7.1.1 Chip on panel surface and crack	between panels:	
		Z Z	Y	
07	The crack of glass	SP Y	SP [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	



NO	Item	Criterion	Level
		Symbols: X: The length of crack Z: The thickness of crack t: The thickness of glass 7. 1, 2 Corner crack:	
		X Y Z	
		≤1/5 a Crack can't enter viewing area Z ≤ 1/2 t	
07	The crack of		Mina
07	glass	7.2 Protrusion over terminal:	Minor
		7.2.1 Chip on electrode pad:	
		X X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	
		W X	
		X Y Z	
		Front \leq a \leq 1/2 W \leq t	
		Back Neglect	



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	
		7. 2. 2 Non-conductive portion:	
07	The crack of glass	$\begin{array}{c cccc} X & Y & Z \\ & \leq 1/3 & a & \leq W & \leq t \end{array}$	Minor
		⊙ If the chipped area touches the ITO terminal, over 2/3 of	
		the ITO must remain and be inspected according to electrode terminal specifications.	
		7. 2. 3 Glass remain:	
		$\begin{array}{c cccc} X & Y & Z \\ \leq a & \leq 1/3 \text{ W} & \leq t \end{array}$	



NO	Item	Criterion	Level
		8. 1 Backlight can't work normally.	Major
08	Backlight elements	8. 2 Backlight doesn't light or color is wrong.	Major
		8. 3 Illumination source flickers when lit.	Major
		9. 1 Pin type must match type in specification sheet.	Major
		9. 2 No short circuits in components on PCB or FPC.	Major
09	General appearance	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

	Reliability lest co	(vei.but)		
NO.	TEST ITEM	TEST CONDITION		
1	High Temperature Storage Test	Keep in +80 ±2℃ 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 $^{\circ}$ / 90% R.H duration for 96 hrs Surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer)		
4	Temperature Cycling Storage Test	$-30^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow +80^{\circ}\text{C} \rightarrow +25^{\circ}\text{C}$ $(30\text{mins}) (5\text{mins}) (30\text{mins}) (5\text{mins})$ 10 Cycle Surrounding temperature, then storage at normal condition 4hrs.		
5	ESD Test	Air Discharge: Apply 2 KV with 5 times Discharge for each polarity +/- 1. Temperature ambiance : 15°C ~35°C 2. Humidity relative : 30% ~60% 3. Energy Storage Capacitance(Cs+Cd) : 150pF±10% 4. Discharge Resistance(Rd) : 330Ω±10% 5. Discharge, mode of operation : Single Discharge (time between successive discharges at least 1 sec) (Tolerance if the output voltage indication : ±5%)		
6	Vibration Test (Packaged)	 Sine wave 10~55 Hz frequency (1 min/sweep) The amplitude of vibration :1.5 mm Each direction (X \ Y \ Z) duration for 2 Hrs 		
7	Drop T <mark>est</mark> (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 1time		



5. PRECAUTION RELATING PRODUCT HANDLING

5.1 SAFETY

- 5.1.1 If the LCD panel breaks, be careful not to get the liquid crystal to touch your skin.
- 5.1.2 If the liquid crystal touches your skin or clothes, please wash it off immediately by using soap and water.

5.2 HANDLING

- 5.2.1 Avoid any strong mechanical shock which can break the glass.
- 5.2.2 Avoid static electricity which can damage the CMOS LSI—When working with the module, be sure to ground your body and any electrical equipment you may be using.
- 5.2.3 Do not remove the panel or frame from the module.
- 5.2.4 The polarizing plate of the display is very fragile. So , please handle it very carefully ,do not touch , push or rub the exposed polarizing with anything harder than an HB pencil lead (glass , tweezers , etc.)
- 5.2.5 Do not wipe the polarizing plate with a dry cloth, as it may easily scratch the surface of plate.
- 5.2.6 Do not touch the display area with bare hands, this will stain the display area.
- 5.2.7 Do not use ketonics solvent & aromatic solvent. Use with a soft cloth soaked with a cleaning naphtha solvent.
- 5.2.8 To control temperature and time of soldering is 320±10°C and 3-5 sec.
- 5.2.9 To avoid liquid (include organic solvent) stained on LCM.

5.3 STORAGE

- 5.3.1 Store the panel or module in a dark place where the temperature is 25°C ±5°C and the humidity is below 65% RH.
- 5.3.2 Do not place the module near organics solvents or corrosive gases.
- 5.3.3 Do not crush, shake, or jolt the module.

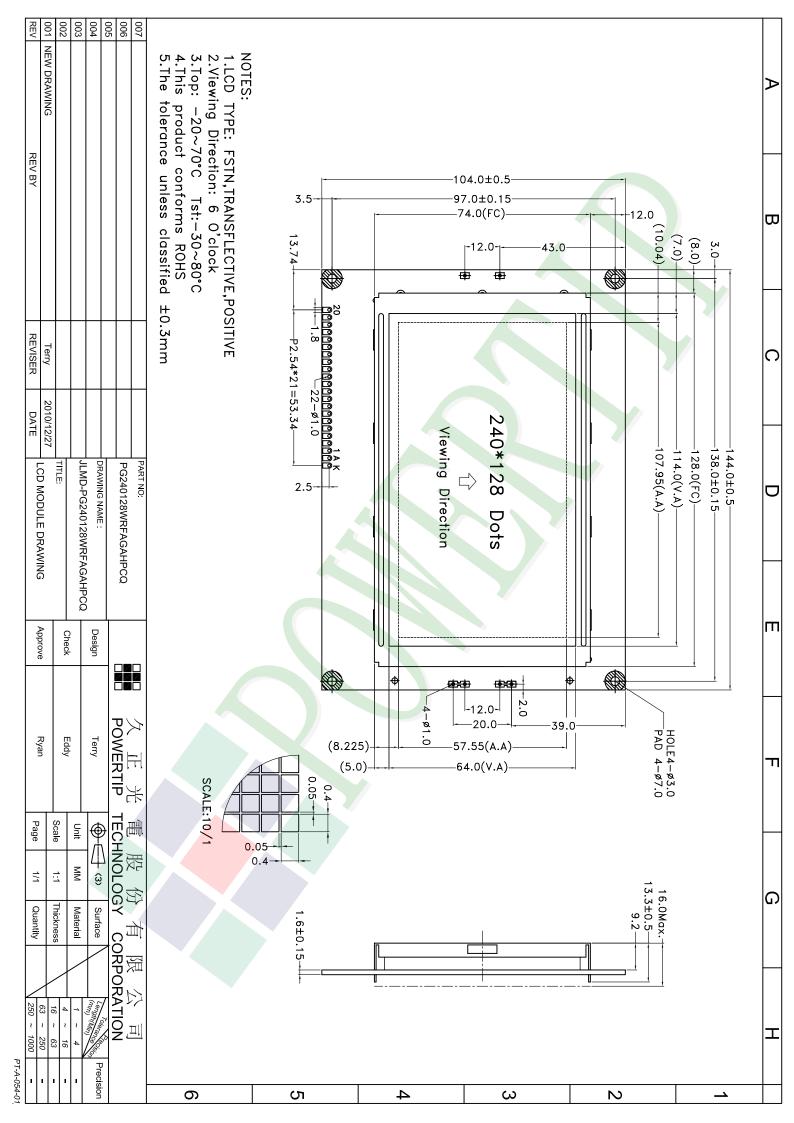
5.4 TERMS OF WARRANTY

5.4.1 Applicable warrant period

The period is within thirteen months since the date of shipping out under normal using and storage conditions.

5.4.2 Unaccepted responsibility

This product has been manufactured to your company's specification as a part for use in your company's general electronic products. It is guaranteed to perform according to delivery specifications. For any other use apart from general electronic equipment, we cannot take responsibility if the product is used in nuclear power control equipment, aerospace equipment, fire and security systems or any other applications in which there is a direct risk to human life and where extremely high levels of reliability are required.



Approve Check Contact Ver.003 LCM包裝規格書 Ryan Eddy Terry LCM Packaging Specifications Documents NO. JPKG-PG240128WRFAGAHPCQ 1.包裝材料規格表 (Packaging Material): (per carton) No. Model Dimensions (mm) 1Pcs Weight Quantity Total Weight 1 成品 (LCM) PG240128WRFAGAHPCO 144 X 104X16 0.1705 66 11.253 2 靜電袋(2) BAG240170ARABA 240X170X0.05 0.0036 66 0.2376 3 氣泡墊(3) 12 240X290X5 0.0348 BAG290240BRBBA 0.0029 A7隔板(4) 78 4 295X105X4 2.964 BX29500010BZBA 0.038 B7隔板(5) 5 BX24500010BZBA 245105X4 0.023 18 0.414 6 C3內盒(6) BX31025511AABA 310X 255X116 0.203 6 1.218 7 外紙箱(1) 1.092 BX52532536CCBA 525 X 325 X 360 1.092 1 8 9 2.一 整箱總重量 (Total LCD Weight in carton): 17.21 Kg±10% 3.單箱數量規格表 (Packaging Specifications and Quantity): (1)Quantity Of Spacer: A7隔板 X 13, B7隔板 X 3 (2)Total LCM quantity in carton: quantity per box x No of boxes 6 66 (3) 氣泡墊 (2))靜電袋+LCM (5) B7隔板 (4) A7隔板 (3) 海綿墊 (1)外紙箱 (6)C3內盒 特 記 事 項 (REMARK) 1. Label Specifications: 前、中、后各空一格 參照產內標準