

SPECIFICATIONS

CUSTOMER

SAMPLE CODE (Ver.)

MASS PRODUCTION CODE (Ver.)

DRAWING NO. (Ver.)

台達

PS1601LRS-EWA-H-01(VER.0)

PC1601LRS-EWA-H-Q(VER.0)

DMD-08081(VER.0)

Customer Approved

Date:

Approved	QC Confirmed	Designer
12+08	胡椒叶	林勒起ルの

Approval For Specifications Only.

Please contact Powertip or it's representative before designing your product based on this specification.

Approval For Specifications and Sample.

POWERTIP TECH. CORP.

Headquarters:

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

Taichung, Taiwan

台中市 407 工業區六路 8號

TEL: 886-4-2355-8168

FAX: 886-4-2355-8166

E-mail: sales@powertip.com.tw

Http://www.powertip.com.tw

^{*} This specification is subject to change without notice.



RECORDS OF REVISION

Date	Ver.	Description	Page	Design by
2008/1/16	0	The sample (NO ROHS PRODUCTION)has changed the LCD ,which was based on the Powertip's MASS PRODUCTION: PC1601LRS-EWA-B		林海艷
2008/2/18	0	MASS PRODUCTION		林海艷

Total: 24 Page



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Note: For detailed information please refer to IC data sheet: <u>ST7066U-0A</u>



1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	16*1 Characters
LCD Type	STN Gray Positive Transflective Extended Temp.
Driver Condition	LCD Module: 1/16 Duty, 1/4 Bias
Viewing Direction	6 O'clock
Backlight	LED YG B/L
Weight	_
Interface	_
	THIS PRODUCT CONFORMS THE ROHS OF PTC
ROHS	Detail information please refer web side :
	http://www.powertip.com.tw/news/LatestNews.asp

1.2 Mechanical Specifications

_	Trechamical Specification		
Item		Standard Value	Unit
	Outline Dimension 80.0(L) * 36.0(w) * 14.0(H)(Max)		mm
	Viewing Area	65.0(L) * 16.0(w)	mm
	Active Area	59.62(L) * 6.56(w)	mm
	Dot Size	0.55(L) * 0.75(w)	mm
	Dot Pitch	0.63(L) * 0.83(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_{LCD}	_	VDD-10.0	V _{DD} +0.3	V
Input Voltage	V _{IN}	_	-0.3	V _{DD} +0.3	V
Operating Temperature	T_{OP}	_	-20	70	$^{\circ}\mathbb{C}$
Storage Temperature	T_{ST}	_	-30	80	$^{\circ}\!\mathbb{C}$
Storage Humidity	H_D	Ta<60 °C	-	90	%RH



1.4 DC Electrical Characteristics

 $V_{DD} = 5.0 \text{ V} \pm 0.5 \text{V}$, $V_{SS} = 0 \text{V}$, $Ta = 25^{\circ}\text{C}$

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Logic Supply Voltage	V_{DD}	_	4.5	5.0	5.5	V
"H" Input Voltage	V_{IH}	_	0.7 Vdd	-	VDD	V
"L" Input Voltage	V_{IL}	_	-0.3	-	0.6	V
"H" Output Voltage	V _{OH}	IOH=-0.1mA	3.9	-	V _{DD}	V
"L" Output Voltage	V_{OL}	IOL=0.1mA	-	-	0.4	V
San also Comment	I_{DD}	Vdd=5.0V;Vop=4.5V; Pattern= Full display	-	1.1	-	
Supply Current		V _{DD} =5.0V; Vop=4.5V; Pattern= Perpendicular line*1			3.0	mA
		-20°C	4.4	4.6	4.8	
LCM Driver Voltage	V _{OP} *2	25℃	4.3	4.5	4.7	V
		70°C	4.1	4.3	4.5	

NOTE: *1 The Maximum current display;

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

1.5 Optical Characteristics

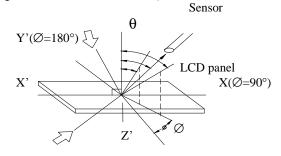
LCD Panel : 1/16 Duty , 1/4 Bias , V_{LCD} =4.2V , Ta = 25°C

Item	Symbol	Conditions	Min.	Тур.	Max.	Reference
View Angle	θ	$C \ge 2.0, \varnothing = 0^{\circ}$	0°	-	40°	Notes 1 & 2
Contrast Ratio	С	$\theta = 5^{\circ}, \varnothing = 0^{\circ}$	5	7	-	Note 3
Response Time(rise)	tr	$\theta = 5^{\circ}, \varnothing = 0^{\circ}$	-	150 ms	-	Note 4
Response Time(fall)	tf	$\theta = 5^{\circ}, \varnothing = 0^{\circ}$	-	300 ms	-	Note 4



Note 1: Definition of angles θ and \emptyset

Light (when reflected) $z (\theta=0^{\circ})$

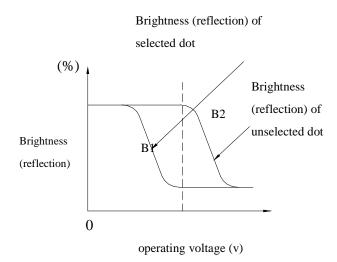


Light (when transmitted) $Y(\varnothing=0^{\circ})$ $(\theta=90^{\circ})$

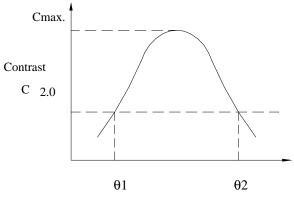
Note 3: Definition of contrast C

Brightness (reflection) of unselected dot (B2)

C = Brightness (reflection) of selected dot (B1)



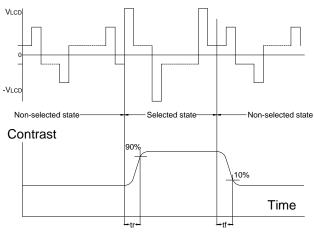
Note 2: Definition of viewing angles $\theta 1$ and $\theta 2$



viewing angle θ (\emptyset fixed)

Note : Optimum viewing angle with the $naked\ eye\ and\ viewing\ angle\ \theta\ at$ $Cmax.\ Above\ are\ not\ always\ the\ same$

Note 4: Definition of response time



Note: Measured with a transmissive LCD panel which is displayed 1 cm²

 V_{LCD} : Operating voltage f_{FRM} : Frame frequency t_r : Response time (rise) t_f : Response time (fall)



1.6 Backlight Characteristics

LCD Module with LED Backlight

Maximum Ratings

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Current	IF	Ta =25°℃	-	300	mA
Reverse Voltage	VR	Ta =25°℃	-	8	V
Power Dissipation	PO	Ta =25°℃	-	1.38	W
Operating Temperature	T_{OP}	-	-20	70	$^{\circ}\!\mathbb{C}$
Storage Temperature	T_{ST}	-	-30	80	$^{\circ}\!\mathbb{C}$
Solder Temp. for 3 Second	-	-	-	330	$^{\circ}\!\mathbb{C}$

Electrical / Optical Characteristics

 $Ta = 25^{\circ}C$

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF= 120 mA	-	4.2	4.6	V
Reverse Current	IR	VR= 8 V	-	-	0.2	mA
Average Brightness (with LCD) *1	IV	IF=120 mA	30	45	-	cd/m ²
Wavelength	λр	IF=120 mA	569	-	576	nm
Uniformity *2	∆В	IF =120 mA	70	-	-	%
Color	Yellow-green					

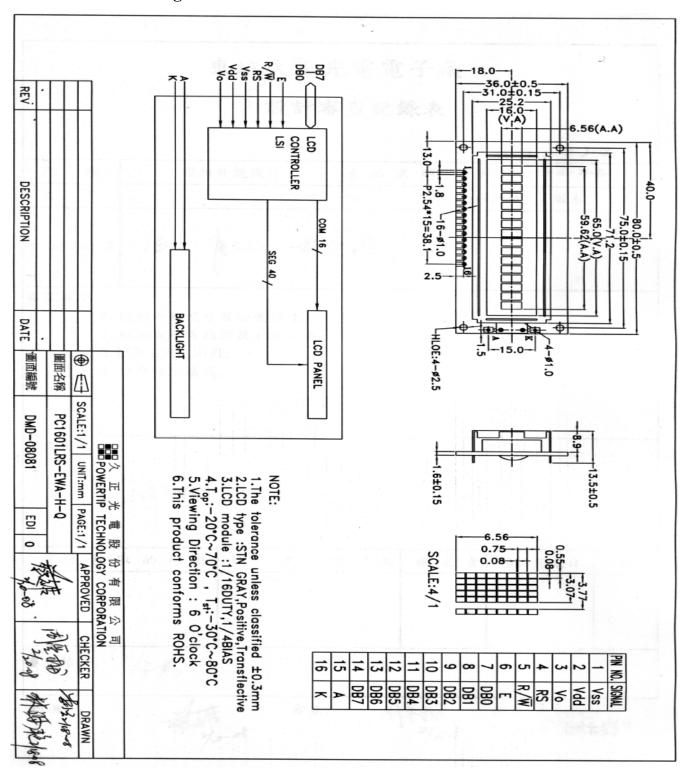
^{*1} This vaule will be changed while mass production

^{*2} $\Delta B=B(min)/B(max)$



2. MODULE STRUCTURE

2.1 Counter Drawing

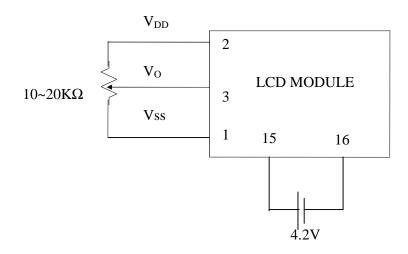




2.2 Interface Pin Description

Pin No.	Symbol	Signal Description
1	Vss	Signal ground (GND)
2	Vdd	Power Supply (VDD> VSS)
3	Vo	Operating voltage (LCD Driver)
		Register Selection input
4		High = Data register
4	RS	Low = Instruction register (for write)
		Busy flag address counter (for read)
5		Read/Write signal input is used to select the read/write
3	R/W	mode. High = Read mode, Low = Write mode
6	E	Start enable signal to read or write the data
		Four low order bi-directional three-state data bus lines. Use
7~10	DB0 ~ DB3	for data transfer between the MPU and the LCD module.
		These four are not used during 4-bit operation.
		Four high order bi-directional three-state data bus lines.
11~14	DB4 ~ DB7	Used for data transfer between the MPU and the LCD
11~14	DD4 ~ DD/	module.
		DB7 can be used as a busy flag.
15	A	Power supply LED backlight (+)
16	K	Power supply LED backlight (-)

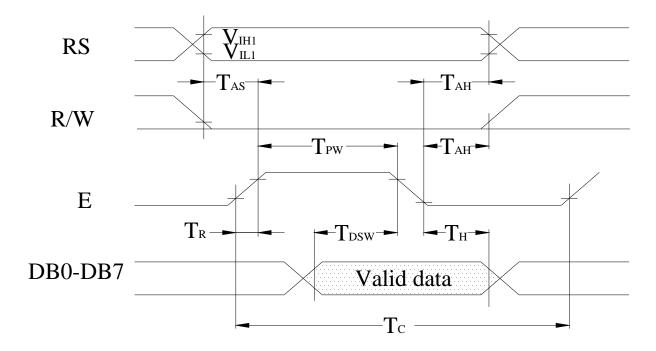
Contrast Adjust



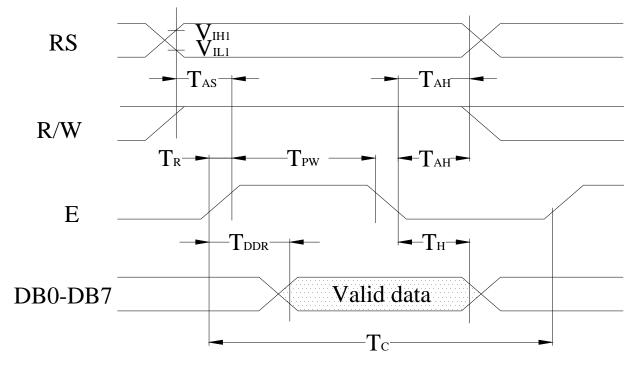


2.3 Timing Characteristics

• Writing data from MPU to ST7066U



• Reading data from ST7066U to MPU





• Write Mode (Writing data from MPU to ST7066U)

 $(VDD = +5V,Ta=25^{\circ}C)$

Symbol	Characteristics	Test Condition	Min.	Тур.	Max.	Unit
$T_{\rm C}$	Enable Cycle Time	Pin E	1200	-	-	ns
T_{PW}	Enable Pulse Width	Pin E	140	-	-	ns
T_R, T_F	Enable Rise / Fall Time	Pin E	-	-	25	ns
T _{AS}	Address Setup Time	Pins: RS , RW,E	0	-	-	ns
T_{AH}	Address Hold Time	Pins :RS,RW,E	10	-	-	ns
T_{DSW}	Data Setup Time	Pins:DB0~DB7	40	-	-	ns
T _H	Data Hold Time	Pins:DB0~DB7	10	-	-	ns

• Read Mode (Reading data from ST7066U to MPU)

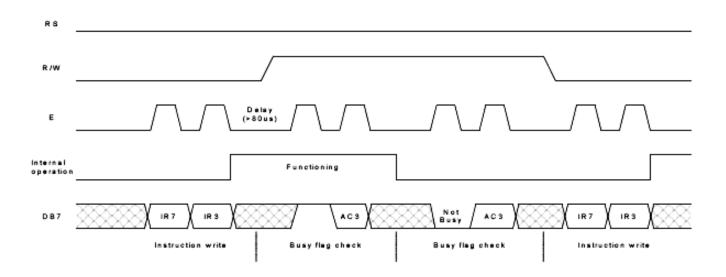
 $(VDD = +5V,Ta=25^{\circ}C)$

Symbol	Characteristics	Test Condition	Min.	Тур.	Max.	Unit
$T_{\rm C}$	Enable Cycle Time	Pin E	1200	-	-	ns
T_{PW}	Enable Pulse Width	Pin E	140	-	-	ns
T_R, T_F	Enable Rise / Fall Time	Pin E	-	-	25	ns
T _{AS}	Address Setup Time	Pins: RS , RW,E	0	-	-	ns
T_{AH}	Address Hold Time	Pins :RS,RW,E	10	-	-	ns
T_{DDR}	Data Setup Time	Pins:DB0~DB7	-	-	100	ns
T_{H}	Data Hold Time	Pins:DB0~DB7	10	-	-	ns



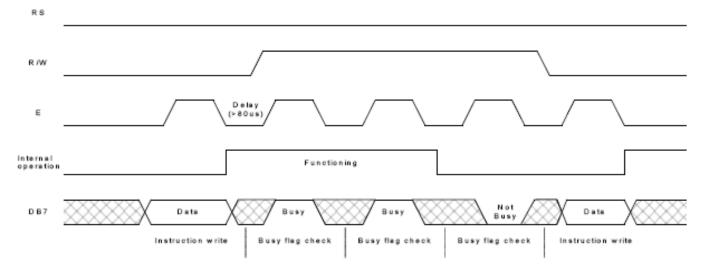
For 4-bit interface date, only four bus lines (DB4 to DB7) are used for transfer.

Example of busy flag check timing sequence



For 8-bit interface date, all eight bus lines (DB0 to DB7) are used .

Example of busy flag check timing sequence





2.4 Display Command

					Instru	iction	Code					Description
Instructions	RS	R/W	DB 7	DB 6	DB 5	DB 4	DB 3	DB 2	DB 1	DB 0	Description	Time (270KHz)
Clear Display	0	0	0	0	0	0	0	0	0	1	Write "20H" to DDRAM. and set DDRAM address to "00H" from AC.	1.52ms
Return Home	0	0	0	0	0	0	0	0	1	×	Set DDRAM address to "00H" from AC and return cursor to it's original position if shifted. The contents of DDRAM are not changed.	1.52ms
Entry Mode Set	0	0	0	0	0	0	0	1	I/D	S	Sets cursor move direction and specifies display shift. These operations are performed during data write and read.	37us
Display ON/OFF	0	0	0	0	0	0	1	D	С	В	D=1 : entire display on C=1 : cursor on B=1 : cursor position on	37µs
Cursor or Display Shift	0	0	0	0	0	1	S/C	R/L	×	×	Set cursor moving and display shift control bit, and the direction, without changing of DDRAM data.	37µs
Function Set	0	0	0	0	1	DL	N	F	×	×	DL: interface data is 8/4 bits NL: number of line is 2/1 F: font size is 5×11/5×8	37µs
Set CGRAM Address	0	0	0	1	AC 5	AC 4	AC 3	AC 2	AC 1	AC 0	Set CGRAM address in address counter.	37µs
Set DDRAM Address	0	0	1	AC 6	AC 5	AC 4	AC 3	AC 2	AC 1	AC 0	Set DDRAM address in address counter.	37µs



Read Busy Flag and Address	0	1	BF	AC 6	AC 5	AC 4	AC 3	AC 2	AC 1	AC 0	Whether during internal operation or not can be known by reading BF. The contents of address counter can also be read.	Oμs
Write Data to RAM	1	0	D7	D6	D5	D4	D3	D2	D1	D0	Write data into internal RAM (DDRAM/CGRAM).	37µs
Read Data from RAM	1	1	D7	D6	D5	D4	D3	D2	D1	D0	Read data from internal RAM (DDRAM/CGRAM).	37µs

Note:

Be sure the ST7066U is not in the busy state (BF=0) before sending an instruction from the MPU to the ST7066.

If an instruction is sent without checking the busy flag , the time between the first instruction and next instruction will take much longer than the instruction time itself.

Before checking BF, be sure to wait at least 80us.. Do not keep "E" always "High" for checking BF. Refer to Instruction Table for the list of each instruction execution time.



2.5 Character Pattern

■ CHARACTER PATTERN(SO/HO/EA,WA)

100	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
KKKK0000	CG RAM (1)			3	a	F	•	l::-					-51	≡ .	C:	F
XXXX0001	(8)		i	1.	F	(i)	.≣1	-::q			121	ŢP	Ģ	ſ ₄	ä	c
жжж0010	(3)		11	2	B	R	占	!			I.	·1	ij	.:: '	F	Œ
**************	(4)		#	3		5	C.	:			I	r'n	Ŧ	Œ	€.	.×:
****O100	(6)		#	: :[].	D	T	cd	t <u>.</u> .			٠.	1	ŀ	†:	 4	\$7
XXXX0101	(6)		%	5	E	IJ	:::	IJ						.].		
****************	(7)	J 5	8.	6	F	Ų	f	Ų			ij	Ħ		=	ρ	Ξ
**************************************	(8)		22	7	G	إرا	g	إربا			7	#	; ;;	ij	9	H
xxxx1000	(1)						ŀ'n				-1	9	#:	IJ	.,I''	×
00XX1001	(2)		ì	9	I	¥	i	' :::!			-:::	·ŗ	Ļ	ı L.	i	<u>.</u>
:xxx1010	(8)		4-:	#	J	Z	į.	Z			::::		'n	Ŀ	j	:F
OKKK1011	(4)		- i	;	K	Ľ	l::	4			::I	ţţ.	<u> </u>		:::] =
000X1100	(5)		3	<	<u></u>	ijĖ	1.	I			1::	ار		ņ	:	:::
1011888	(6)				M	1	m	•			.::ı.	æ	٠.,	<u></u> ,	ŧ.,	
WXX1110	(7)			>	H	•••	m	<u>-</u> i-			=	12	:T:		ř	
000011111	(0)	-		?	()		0	·-				٠.,١	₹.	E1	Ö	

2.6 JUMPER(Setting different use)

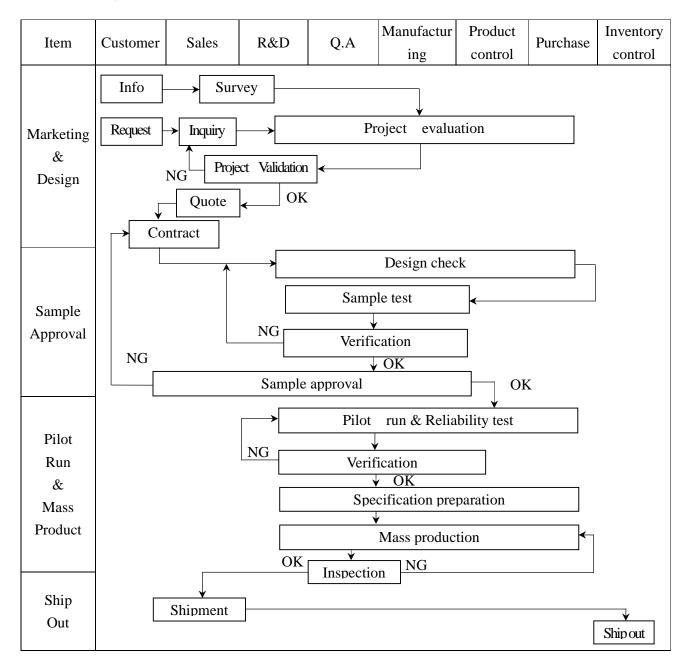
2.6.1 SHORT: J1/J3/J5

2.6.2 **OPEN**: The other unnoted jumpers

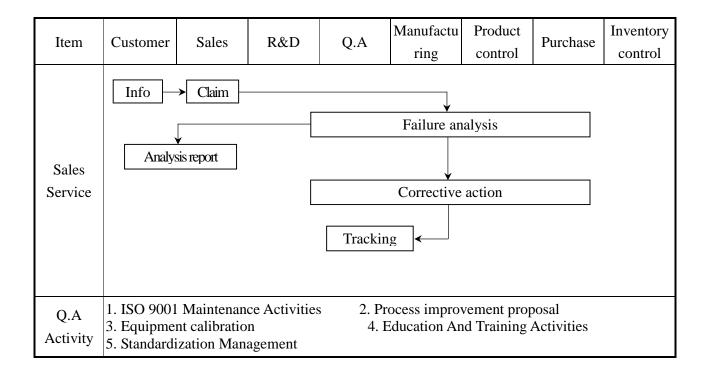


3. QUALITY ASSURANCE SYSTEM

3.1 Quality Assurance Flow Chart



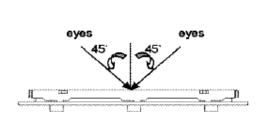


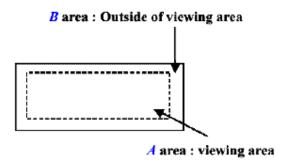




3.2 Inspection Specification

- ◆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 40W×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. (Fig. 1)
 - (3). Definition of area . (Fig. 2)





◆ 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 \(\) dot 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
05	Black or white dot \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 5.1 Round type: 5.1.1 display only: • White and black spots on display ≤ 0.30mm, no more than Four white or black spots present. • Densely spaced: NO more than two spots or lines within 3mm 	Minor



◆Specification:

NO	Item	Criterion							level
05	Item	Cinterion							ievei
0.5	Black or white	5.1.2 Nom-	display :						
	dot · scratch ·		7						
	contamination	Dir	nension (diameter	: Ф)	Acceptance(Q'ty)				
	Round type	Φ ≤ 0.10mm			Accept no de	nse			
	→ ← .	0.	$\frac{10\text{mm} < \Phi \leq 0.20}{10\text{mm}}$	mm		3			
	Y X I Y		$20 \text{mm} < \Phi \leq 0.30$			2			
	<u> </u>		Total			4			
	$\Phi = (x+y)/2$	5.1.3 Line t	ype:						Minor
	$\Psi = (X + y)/2$		ion (diameter : Φ))	Aco	ceptan	ce (Q'ty)		I VIIIIOI
		Length	width		A area		B area		
			$w \leq 0.03$ mm		Accept no d	ense	Don't cour	nt	
	- Z¥W	L≦3.0mm	0.03 mm $< \Phi \le 0$.05mm			Don't cour	nt	
	~ ,	L≦2.5mm	0.05 mm $< \Phi \le 0$.075mm	4		Don't cour	nt	
			w > 0.075 m	m	As	s round	d type		
		1			1				
					Acceptan	ce(O't	v)		
		_D	(1° , &)	A	•		B area		
		Dimension	(diameter : Φ)						
		Φ ≦	≤ 0.20mm	Acc	ept no dense		Don't count		
06	Polarizer	0.20mm	$<$ Φ \leq 0.50mm		3		Don't count		Minor
06	Bubble	0.50mm	< Φ ≤ 1.00mm		2		Don't count		
		Φ>	>1.00mm		0		Don't count		
		Tota	l quantity		4		Don't count		
			•	I.		I			
		■ Glass	Crack:						
		_	ck on the circuit of	electro	le terminal :				
			_	_ \					
	The crack of			2	Z				
07	glass								M:
				X					Minor
			-						
			X		Y		Z		
		T7		_		,			
		Fro		a	$Y \le 1/2 D$	4	Z≦ t		
		Bac	ck		Neglect				
			•						



◆Specification:

	ecification:		
NO	Item	Criterion	Level
		 Glass Crack: 7.2 General glass crack and corner ed 7.2.1 	lge:
	The crack of glass	X Y	Z Mino
	X: The length of Crack	Neglect Out A are	ea Neglect
	Y: The width of crack	7.2.2	Z Z
07	Z: The thickness of crack	x	
	D: terminal length	X Y Neglect Out A are	Z ea Neglect
	T: The thickness of glass	Neglect Out A air	ea Neglect
	A: The length of glass	7.3 Glass remain:	
		X Neglect	$\frac{Y}{\leq 1/3 d}$ Minor



◆Specification:

	ecification:	I			
NO	Item	Criterion			Level
07	The crack of glass X: The length of Crack Y: The width of crack Z: The thickness of crack D: terminal length T: The thickness of	7.4 Corner cra	ack and medial crack:	X X SP	Minor
	glass	X	Y	Z	
	A: The length of	≤1/5a	Crack can't enter viewing area	≤1/2t	
	glass	≤1/5a	Crack can't exceed the half of width of SP width of SP	$1/2t < Z \le 2t$	
		8.1 Backlight c	an't work normally.		Major
08	Backlight elements	8.2 Backlight d	oesn't light or color is wrong.		Major
08	cicinents	8.3 Illumination	n source flickers when lit.		Major
		9.1 pin type mu	ast match type in specification shee	et	Major
		9.2 No short cir	rcuits in components on PCB or F	PC	Major
09	General appearance	packaging s	kaging must the same as specified specification sheet.		Major
		9.4 The folding acceptable	and peeled off in polarizer are no	t	Major
			or FPC between B/L assembled divergence PC is ≤ 1.5 mm	istance	Major
		I			1



4. RELIABILITY TEST

4.1 Reliability Test Condition

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 $\pm 2^{\circ}$ C 96 hrs						
		Surrounding temperature, then storage at normal condition 4hrs						
		Keep in +60°C/90%RH duration for						
		Surrounding temperature, then stora	ge at normal condition 4hrs					
3	High Humidity Storage	(Excluding the polarizer)Or	061					
	Tright Humaity Storage	Keep in +40°C/90%RH duration for						
		Surrounding temperature, then stora						
		Air Discharge:	Contact Discharge:					
		Apply 6 KV with 5 times	Apply 250V with 5 times					
		Discharge for each polarity +/-	discharge for each polarity +/-					
		1. Temperature ambient: $15^{\circ}\text{C} \sim 35$	C					
		2. Humidity relative: $30\% \sim 60\%$						
4	ESD Test	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 s)						
		Single Discharge (time between successive discharges at least 1 s) (Tolerance If the output voltage indication: $\pm 5\%$)						
		$-20^{\circ}\text{C} \rightarrow 25^{\circ}\text{C} \rightarrow 70^{\circ}\text{C} \rightarrow 25^{\circ}\text{C}$						
5	Temperature Cycling Test	(30mins) (5mins) (5mins) 10 Cycle						
		Surrounding temperature, then storage at normal condition 4hrs						
6	Whatian Test (Dealroad)	1. Sine wave 10∼55HZ frequency (1 min)						
6	Vibration Test (Packaged)	2. The amplitude of vibration :1.5 mm						
		3. Each direction (XYZ) duration for 2 Hrs						
		Packing Weight (Kg)	Drop Height (cm)					
		0 ~ 45.4	122					
		45.4 ~ 90.8	76					
7	Drop Test (Packaged)	90.8 ~ 454	61					
		Over 454	46					
		Drop direction: **3 come	r /1 edges /6 sides etch 1times					



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.



6. PACKING Specification

LCM Model	PC1601LRS-EWA-H-C	I LCM包裝規格	Approve	Check Contact
	DPK-08085	LCM Packaging Specific	eations DATE	初版 版次Ver
Drawing NO.	DFK-00003		08'02'19	08'02'19 0
句 歴 材 彩 に	規格表 (Packaging Ma	terial) : (per carton)		
No. 1	Item	Model Model	Dimensions (mm)	Quantity
77.75	(1) LCM	PC1601LRS-EWA-H-Q	80.0*36.0*13.5	432
	袋 (2)BAG	BAG100100ARABA	100*100*0.05	432
	墊(3)BAG	BAG290240BRBBA	240*290*5	24
	A1(4)BX	BX29500047BZBA	295*47*3	168
	B1(5)BX	BX24500047BZBA	245*47*4.5	48
	盒(6)Product Box	BX31025555AABA	310*255*55	12
7 外報	E箱(7)Carton	BX52532536CCBA	525 *325 * 360	1
8				
9				
2)Total LCN	ntity per box : no. per M quantity in carton : (LCM)—			36 432
(2)青申	唯袋			
(3)\$	(泡墊		1	
400	*	(4)刀卡A1 (5)刀卡B1	The state of the s	(7) Carton
(O)F	roduct Box	特記事項(REMA	DV)	
	Value of the second	AMDA) RS 49 JR DT	IXIV)	•
 Label Spe 	ecifications:	14.0		
MODEL: LOT NO: QUANTITY: CHECK:			前中後名	空一格 -