SPECIFICATIONS

CUSTOMER

矽創

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MASS PRODUCTION CODE (Ver.)

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 - * This specification is subject to change without notice.

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

Approval For Specifications and Sample.

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Appendix: LCM Drawing

Note: For detailed information please refer to IC data sheet: Sitronix-ST7636R



1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	128 *(R、G、B) * 128 Dots
LCD Type	CSTN , Negative , Transmissive
Driver Condition	LCD Module : 1/128 Duty , 1/12 Bias
Screen size(inch)	1.5 (Diagonal)
Viewing Direction	6 O'clock
Color configuration	R.G.B. vertical stripe
Backlight Type	White LED B/L
Interface	8Bits data bus
Driver IC	ST7636R (support 65K, 262K, 16Mcolors)

LCM Weight: 6.5 g

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	36.1(W) * 61.05(L) * 2.9(H)	mm
Viewing Area	29.5 (W) * 29.2 (L)	mm
Active Area	26.865 (W) * 26.865 (L)	mm
Dot Size	0.198 (W) * 0.198 (L)	mm
Dot Pitch	0.21 (W) * 0.21 (L)	mm

Note: For detailed information please refer to LCM drawing



1.3 Absolute Maximum Ratings

Item	Symbol	Condition	Min.	Max.	Unit
System Power Supply Voltage	VDD	-	-0.5	4.0	V
LCD Driver Supply Voltage	VOUT _{IN}	-	-0.5	20	V
Input Voltage	V _{IN}	-	-0.5	VDD + 0.5	V
Operating Temperature	T _{OP}	-	-20	70	°C
Storage Temperature	T _{ST}	-	-30	80	°C
Storage Humidity	H _D	Ta < 40 °C	20	90	%RH

1.4 DC Electrical Characteristics

VDD = 2.8V , GND = 0V , Ta = $25^{\circ}C$

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Logic Supply Voltage	VDD	-	-	2.8	-	V
Input High Voltage	V_{IH}	-	0.7VDD	-	VDD	V
Input Low Voltage	V_{IL}	-	GND	-	0.3VDD	V
Output High Voltage	V _{OH}	-	0.7VDD	ı	VDD	V
Output Low Voltage	V_{OL}	-	GND	-	0.3VDD	V
Supply Current	I _{DD}	VDD=2.8 V	-	1.3	2.0	mA
		VOP -GND (-20°C)	14.5	15.0	15.5	
LCD Driver Voltage	V_{OP}	VOP -GND (+25°C)	13.5	14.0	14.5	V
		VOP -GND (+70°C)	12.1	12.6	13.1	

Note: Electronic volume control (VOLCRTR)P1: 05H,P2:04H



1.5 Optical Characteristics

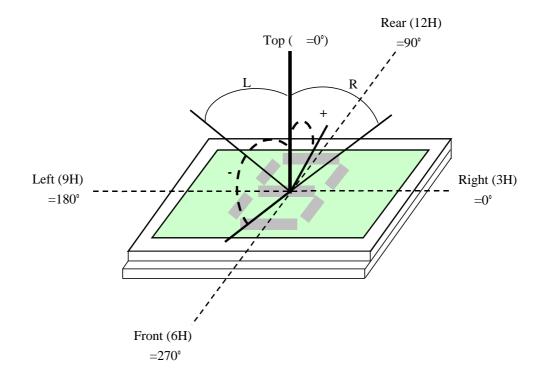
Item		Symbol	Condition	Min.	Тур.	Max.	unit	
Response time	Rise	Tr		-	240	360	ms	Note2
response time	Fall	Tf		-	80	120	1113	140102
	White	Χ		0.24	0.29	0.34		
	VVIIILE	Υ		0.24	0.29	0.34		
	Red	Χ	Ta = 25°C	0.46	0.51	0.56		-
Color of CIE	Reu	Υ	θX, Θy = 0°	0.28	0.33	0.38	_	
Coordinate	Green	Χ		0.25	0.30	0.35		
		Υ		0.44	0.49	0.54		
	Blue	Χ		0.11	0.16	0.21		
		Υ		0.07	0.12	0.17		
	Тор	θΥ+			40			
Viewing angle	Bottom	θΥ-	CR ≥ 2.0	40			doa	Note1
viewing angle	Left	θX-	CR ≥ 2.0	45			deg	Note
	Right	θX+			45			
Contrast ratio		CR	Ta = 25°C θX = 0°, θY = 5°	10	15	-	-	Note3



Note 1.

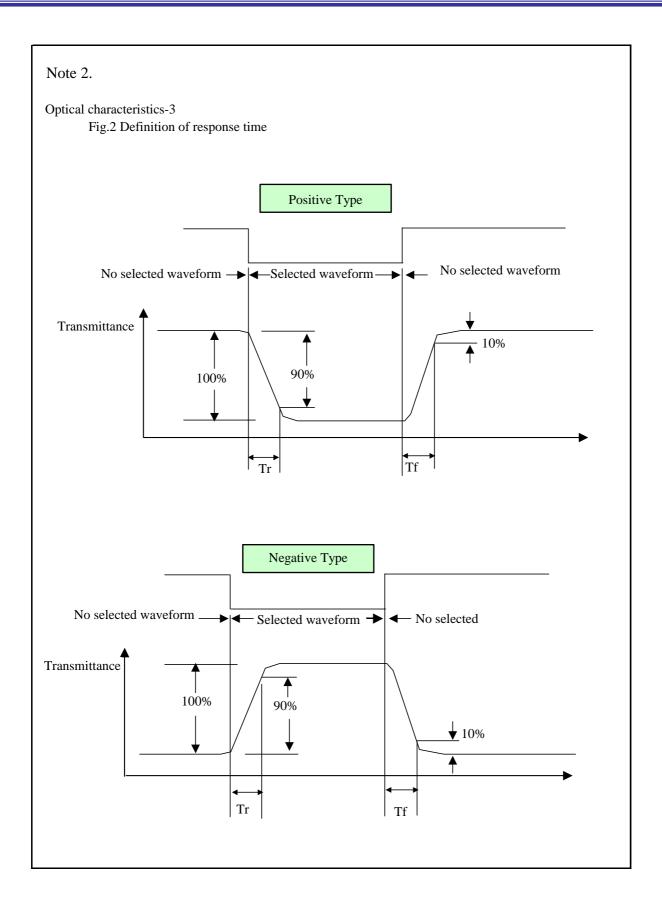
Optical characteristics-2

Viewing angle



Viewing angle







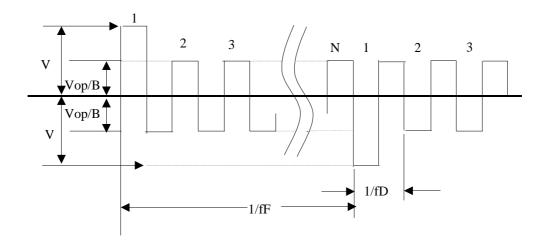
Electrical characteristics-2

2 Drive waveform

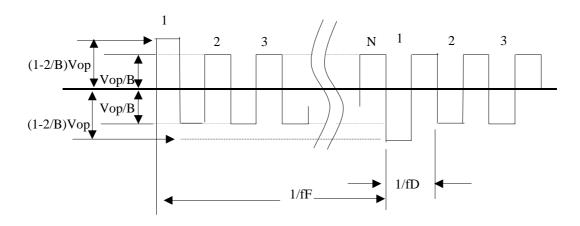
Vop: Drive voltage fF: Frame frequency 1/B: Bias fD: Drive frequency

N: Duty

(1) Selected waveform



(2) Non- Selected waveform

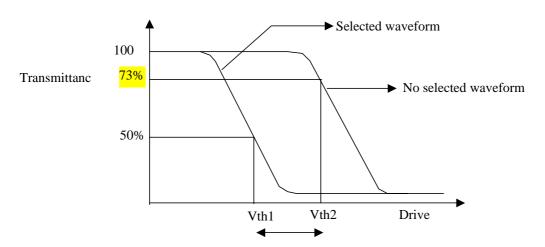


Note

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



Note 3.: Definition of Vth

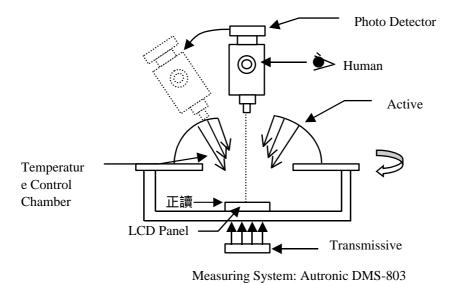


Active voltage range

	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

LCD Module with LED Backlight

Maximum Ratings

Item	Symbol	Conditions	Min.	Max.	Unit
Forward Current	IF	Ta =25°C	-	60	mA
Reverse Voltage	VR	Ta =25°C	-	10	V
Power Dissipation	РО	Ta =25°C	-	240	mW
Operating Temperature	T _{OP}	-	-20	70	°C
Storage Temperature	T _{ST}	-	-30	80	°C

Electrical / Optical Characteristics

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF= 40mA	-	3.5	4	V
Reverse Current	IR	VR= 10V	-	-	100	μA
Average Brightness (with LCD)	IV	IF= 40mA	120	160	-	cd/m ²
CIE Color Coordinate	X	IF= 40mA	0.260	0.290	0.320	_
(Without LCD)	Y	11 - 401117	0.255	0.285	0.315	-
Uniformity *1	В	IF= 40mA	70	-	-	%
Color	White					

Note: *1 B=B(min) / B(max).



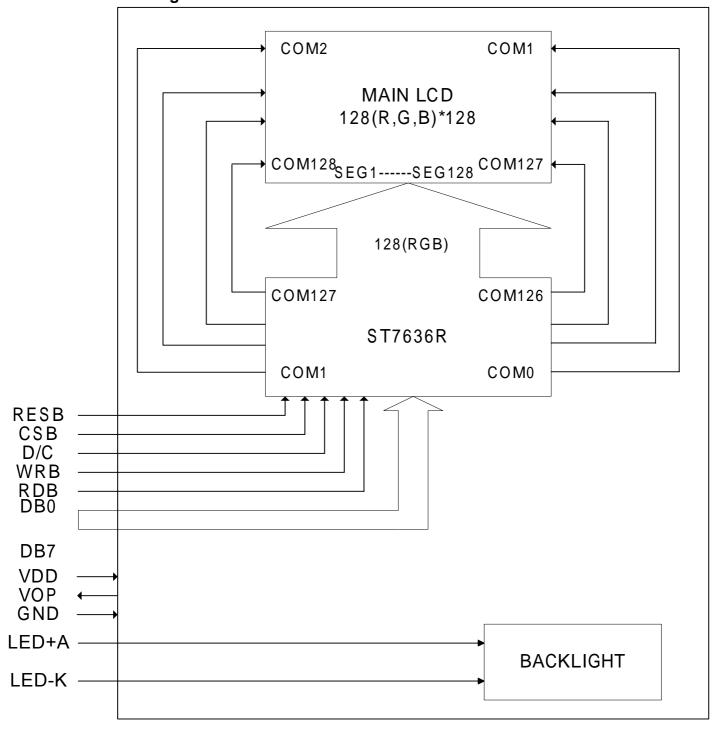
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram



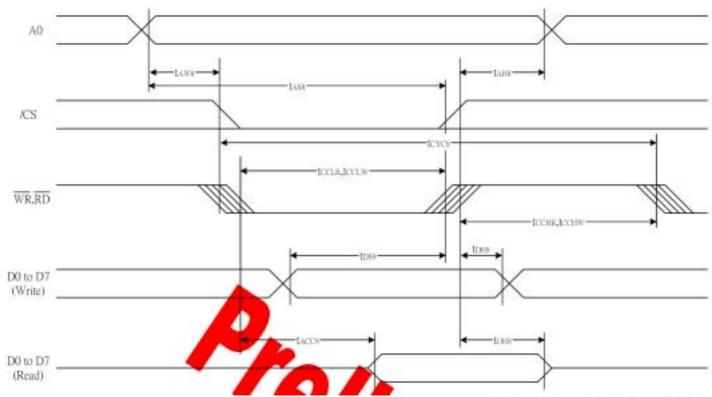


2.2 Interface Pin Description

Pin No.	Symbol	Function
1	LED-K	Power supply cathode input for backlight
2	LED+A	Power supply anode input for backlight
3	GND	Ground
4	VDD	Power supply input for driver IC (+2.8V).
5	NC	Ground
6	VOP	LCD operation voltage test pin.
7	CSB	Chip select pin, active " L "
8	RESB	Reset signal input f, active "L"
9	D/C	Data and control register select input H: D0 to D7 are display data. L: D0 to D7 are control data.
10	WRB	Write signal input, active " L "
11	RDB	Read signal input, active " L "
12	DB7	Data bus bit 7
13	DB6	Data bus bit 6
14	DB5	Data bus bit 5
15	DB4	Data bus bit 4
16	DB3	Data bus bit 3
17	DB2	Data bus bit 2
18	DB1	Data bus bit 1
19	DB0	Data bus bit 0
20	GND	Ground



2.3 Timing Characteristics



(V_{DD}=2.8V, Ta= -30°C to 85°C, die)

No.	6:1		0	Rating		
Item	Signal	Symbol	Condition	Min.	Max.	Units
Address hold time		tAH8		10	-	
Address setup time	A0	tAS8		50	-	
Address setup time		tAW8		0	-	ns
System cycle time (WRITE)		tCYC8		180		
/WR L pulse width (WRITE)	WR	tCCLW		55	==0.1	
WR H pulse width (WRITE)		tCCHW		140		
System cycle time (READ)		tCYC8		180	-	
/RD L pulse width (READ)	RD	tCCLR		90	574	
/RD H pulse width (READ)		tCCHR		90	-	ns
WRITE data setup time		tDS8		55		
WRITE data hold time	00 07	tDH8		10	<u>0.7</u> 45	1
READ access time	D0 to D7	tACC8	CL = 100 pF	=	75	
READ Output disable time		IQH8	CL = 100 pF	-	65	



2.4 Instruction Table

(LCD、IC: ST7636)

Command	AO	RD	WR	D7	D6	D5	D4	D3	D2	D1	D0	Function	Hex	Parameter	Index
DISON	0	1	0	1	0	1	0	1	1	1	1	Display On	AF	None	1
DISOFF	0	1	0	1	0	1	0	1	1	1	0	Display Off	AE	None	2
DISNOR	0	1	0	1	0	1	0	0	1	1	0	Normal Display	A6	None	3
DISINV	0	1	0	1	0	1	0	0	1	1	1	Inverse Display	A7	None	4
COMSCN	0	1	0	1	0	1	1	1	0	1	1	Com Scan Direction	ВВ	1 byte	5
DISCTR	0	1	0	1	1	0	0	1	0	1	0	Display Control	CA	3 byte	6
SLPP	0	4	0	0	0	0	0	0	1	0	0	Sleep In/Out Preparation	04	1 byte	7
SLPIN	0	1	0	1	0	0	1	0	1	0	1	Sleep In	95	None	8
SLPOUT	0	1	0	1	0	0	1	0	1	0	0	Sleep Out	94	None	9
PASET	0	1	0	0	1/		1	0	1	0	1	Page Address Set	75	2 byte	10
CASET	0	9	0	0			1	0	1	0	1	Column Address Set	15	2 byte	11
DATCTL	0	1	0	1	0		1	N	-	0	0	Data Scan Direction	BC	3 byte	12
RAMWR	0	1	0	0	1	4 0		1	人	0	0	Writing to Memory	5C	Data	13
RAMRD	0	1	0	0	1	0	-			Pa	1	Reading from Memory	5D	Data	14
PLTIN	0	. 1	0	1	0	1	0	1		75	0	Partial display in	A8	2 byte	15
PLTOUT	0	1	0	1	0	1	0	1	0	1		Partial display out	A9	None	16
RMWIN	0	1	0	1	1	1	0	0	0	0	ø	Road Modify Write In	E0	None	17
RMWOUT	0	.1	0	1	1	1	0	1	1	1	0	Read Modify Write Out	EE	None	18
ASCSET	0	1	0	1	0	4	0	1	0	1	0	Area Scroll Set	AA	4 byte	19
SCSTART	0	1	0	1	0	1	0	1	0	1	1	Scroll Start Set	AB	1 byte	20
OSCON	0	1	0	1	1	0	1	0	0	0	1	Internal OSG on	D1	None	21
OSCOFF	0	1	0	1	1	0	1	0	0	1	0	Internal OSC off	D2	None	22
PWRCTL	0	1	0	0	0	.1	0	0	0.	0	0	Power Control	20	1 byte	23
VOLCTR	0	1	0	1	0	0	0	0	0	0	1	EC control	81	2 byte	24
VOLUP	0	1	0	1	1	0	1	0	1	1	0	EC increase 1	D6	None	25
VOLDOWN	0	1	0	1	1	0	1	0	1	1	1	EC decrease 1	D7	None	26
STREAD	0	0	.1				Status	Read	1			Status Read			27
EPSRRD1	0	1	0	0	1	4	1	1	1	0	0	READ Register1	7C	None	28
EPSRRD2	0	1_	0	0	1	1	1	1	1	0	1	READ Register2	7D	None	29
NOP	0	1	0	0	0	1	0	0	1	0	1	NOP Instruction	25	None	30
EEOK	0	1	0	0	0	0	0	0	1	1	1	EEPROM Function Start	07	1 byte	31
RESERVED	0	1	0	1	0	0	0	0	0	1	0	Not Use	82		32



Command	AO	RD	WR	D7	D6	D5	D4	D3	D2	D1	D0	Function	Hex	Parameter	Index
Frame1 Set	0	1	0	0	0	1	0	0	0	0	0	FRAME 1 PWM Set	20	16 byte	1
Frame2 Set	0	1	0	0	0	1	0	0	0	0	1	FRAME 2 PWM Set	21	16 byte	2
Frame3 Set	0	1	0	0	0	1	0	0	0	1	0	FRAME 3 PWM Set	22	16 byte	3
Frame4 Set	0	1	0	0	0	31	0	0	0	1	1	FRAME 4 PWM Set	23	16 byte	4
ANASET	0	1	0	0	0	1	1	0	0	1	0	Analog Set	32	3 byte	5
EPCTIN	0	1	0	1	9	0	0	1	1	0	1	Control EEPROM	CD	1 byte	6
EPCOUT	0	:1	0	1	1	0	0	1	1	0	0	Cancel EEPROM	CC	None	7
EPMWR	0	1	0	1	1	1	1	1	1	0	0	Write to EEPROM	FC	None	8
EPMRD	0	1	0	1	1	1	1	1	1	0	1	Read from EEPROM	FD	None	9
TGCSET	0	1	0	1	1		1	0	0	0	1	Thermal Gradient Coefficient Set	F1	1 byte	10
DISPADJ	0	1	0	1	1			1	0	1	0	Display Performance Adjustment	FA	1 byte	11

Ext=1 or E	xt=0															
Command	AO	RD	WR	D7	D6	D5	D4	D3	D 2	of	p)		Function	Hex	Parameter	Index
Ext In	0	1	0	0	0	1	1	0	0		1	Ex	Set	30	None	-
Ext Out	0	1	0	0	0	1	1	0	0	0		٢,	1 Set	31	None	(44)

Note 1: Initial values depend on MID wiring and IC ID codings



2.5 Data Format (1)65K color display

Data Write Sequence	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0
1 st Byte Write	R	R	R	R	R	G	G	G
2 ^{nt} Byte Write	G	G	G	В	В	В	В	В

A sing pixel of data is read after the second write operation as shown, and it is written in the display RAM.

(2)262K color display

Data Write Sequence	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0
1 st Byte Write	R	R	R	R	R	R	Х	Х
2 ^{nt} Byte Write	G	G	G	G	G	G	Х	Х
3 rd Byte Write	В	В	В	В	В	В	Х	Х

A sing pixel of data is read after the second write operation as shown, and it is written in the display RAM. "X" is dummy bit, and it is ignored for display.

(3)16M color display

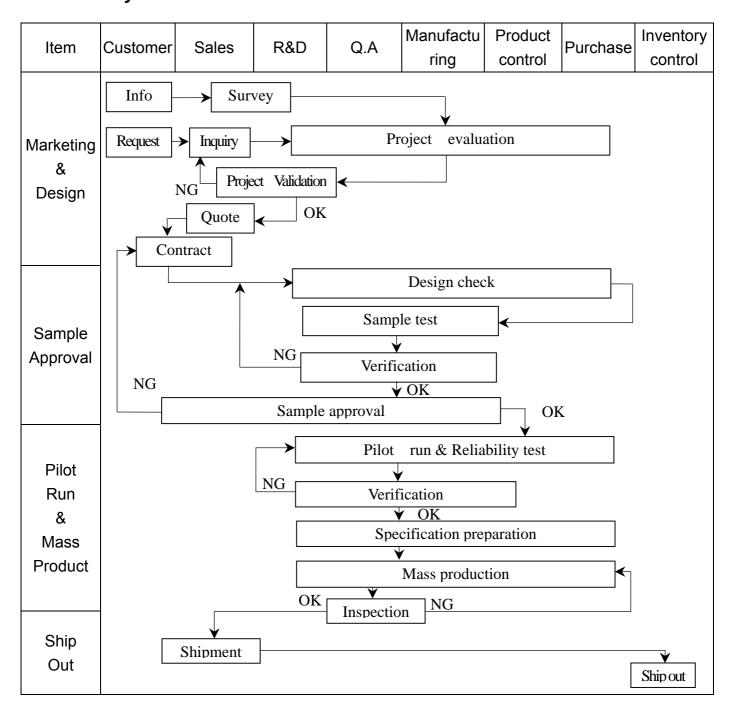
Data Write Sequence	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0
1 st Byte Write	R	R	R	R	R	R	R	R
2 ^{nt} Byte Write	G	G	G	G	G	G	G	G
3 rd Byte Write	В	В	В	В	В	В	В	В

A sing pixel of data is read after the second write operation as shown, and it is written in the display RAM.

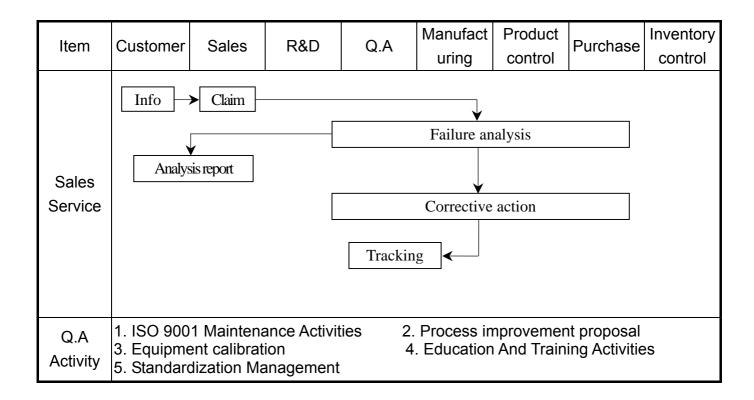


3. QUALITY ASSURANCE SYSTEM

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

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

FQC Defect Level: 100% Inspection OUT Going Defect Level: Sampling

Specification:

	ilication .	T		
NO	Item	Specification	Judge	Level
1	Part Number	The part number is inconsistent with work order of production	N.G.	Major
2	Quantity	The quantity is inconsistent with work order of production	N.G.	Major
	Electronic	The display lacks of some patterns.	N.G.	Major
	characteristics of	Missing line.	N.G.	Major
3	LCM	The size of missing dot, A is > 1/2 Dot size	N.G.	Major
	A=(L + W)/2	There is no function.	N.G.	Major
	7 (2 * * * * *)/2	Output data is error	N.G.	Major
		Material is different with work order of production	N.G.	Major
		LCD is assembled in inverse direction	N.G.	Major
		Bezel is assembled in inverse direction	N.G.	Major
	Appearance of	Shadow is within LCD viewing area + 0.5 mm	N.G.	Major
	LCD	The diameter of dirty particle, A is > 0.4 mm	N.G.	Minor
	A=(L + W)/2	Dirty particle length is > 3.0mm, and 0.01mm < width ≤ 0.05mm	N.G.	Minor
4	Dirty particle	Display is without protective film	N.G.	Minor
	(Including	Conductive rubber is over bezel 1mm	N.G.	Minor
	scratch, bubble)	Polarizer exceeds over viewing area of LCD	N.G.	Minor
		Area of bubble in polarizer, A > 1.0mm, the number of bubble is > 1 piece.	N.G.	Minor
		0.4mm < Area of bubble in polarizer, A < 1.0mm, the number of bubble is > 4 pieces.	N.G.	Minor
		Burned area or wrong part number is on PCB	N.G.	Major
		The symbol, character, and mark of PCB are unidentifiable.	N.G	Minor
		The stripped solder mask , A is > 1.0mm	N.G.	Minor
_	Appearance of	0.3mm < stripped solder mask or visible circuit, A < 1.0mm, and the number is ≥ 4 pieces	N.G.	Minor
5	PCB	There is particle between the circuits in solder mask	N.G	Minor
	A=(L + W)/2	The circuit is peeled off or cracked	N.G	Minor
		There is any circuits risen or exposed.	N.G	Minor
		0.2mm < Area of solder ball, A is ≤ 0.4mm The number of solder ball is ≥ 3 pieces	N.G	Minor
		The magnitude of solder ball, A is > 0.4mm.	N.G	Minor



NO	Item	Specification	Judge	Level
		The shape of modeling is deformed by touching.	N.G.	Major
	Appearance of	Insufficient epoxy: Circuit or pad of IC is visible	N.G.	Minor
6	molding A=(L + W)/2	Excessive epoxy: Diameter of modeling is > 20mm or height is > 2.5mm	N.G.	Minor
		The diameter of pinhole in modeling, A is > 0.2mm.	N.G.	Minor
		The folding angle of frame must be > 45°+ 10°	N.G.	Minor
7	Appearance of frame	The area of stripped electroplate in top-view of frame, A is > 1.0mm.	N.G.	Minor
'	A=(L + W)/2	Rust or crack is (Top view only)	N.G.	Minor
	A-(L + VV)/2	The scratched width of frame is > 0.06mm. (Top view only)	N.G.	Minor
	Electrical	The color of backlight is nonconforming	N.G.	Major
	characteristic of	Backlight can't work normally.	N.G.	Major
8	backlight	The LED lamp can't work normally	N.G.	Major
	A=(L + W)/2	The unsoldering area of pin for backlight, A is > 1/2 solder joint area.	N.G.	Minor
	A-(L + VV)/2	The height of solder pin for backlight is > 2.0mm	N.G.	Minor
		The mark or polarity of component is unidentifiable.	N.G.	Minor
		The height between bottom of component and surface of the PCB is floating > 0.7mm	N.G.	Minor
10	Assembly parts A=(L + W)/2	D > 1/4W W D D D' Pad	N.G.	Minor
	,	End solder joint width, D' is > 50% width of component termination or width of pad	N.G.	Minor
		Side overhang, D is > 25% width of component termination.	N.G.	Minor
		Component is cracked, deformed, and burned, etc.	N.G.	Minor
		The polarity of component is placed in inverse direction.	N.G.	Minor
		Maximum fillet height of solder extends onto the component body or minimum fillet height is < 0.5mm.	N.G.	Minor



4. RELIABILITY TEST

4.1 Reliability Test Condition

NO	Item	Test Co	ondition				
1	High Temperature Storage	Storage at 80 ± 2°C 96~100 hrs Surrounding temperature, then 4hrs					
2	Low Temperature Storage	Storage at -30 ± 2°C 96~100 hr Surrounding temperature, then 4hrs					
3	High Temperature /Humidity Storage	1.Storage 96~100 hrs 60 ± 2°C temperature, then storage at (Excluding the polarizer). or 2.Storage 96~100 hrs 40 ± 2°C temperature, then storage at	normal condition 4hrs. , 90~95%RH surrounding				
4	Temperature Cycling	(30mins) (5mins)	→ 70°C → 25°C (30mins) (5mins) Cycle				
5	Vibration	10~55Hz(1 minute)1.5mm X,Y and Z direction * (each 2hrs)					
6	ESD Test	Air Discharge: Apply 6 KV with 5 times discharge for each polarity +/- Testing location: Around the face of LCD	Contact Discharge: Apply 250V with 5 times discharge for each polarity +/- Testing location: 1.Apply to bezel. 2.Apply to Vdd, Vss.				
7	Drop Test	Packing Weight (Kg) 0 ~ 45.4 45.4 ~ 90.8 90.8 ~ 454 Over 454	Drop Height (cm) 122 76 61 46				



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 $280 \pm 10^{\circ}$ 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°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.

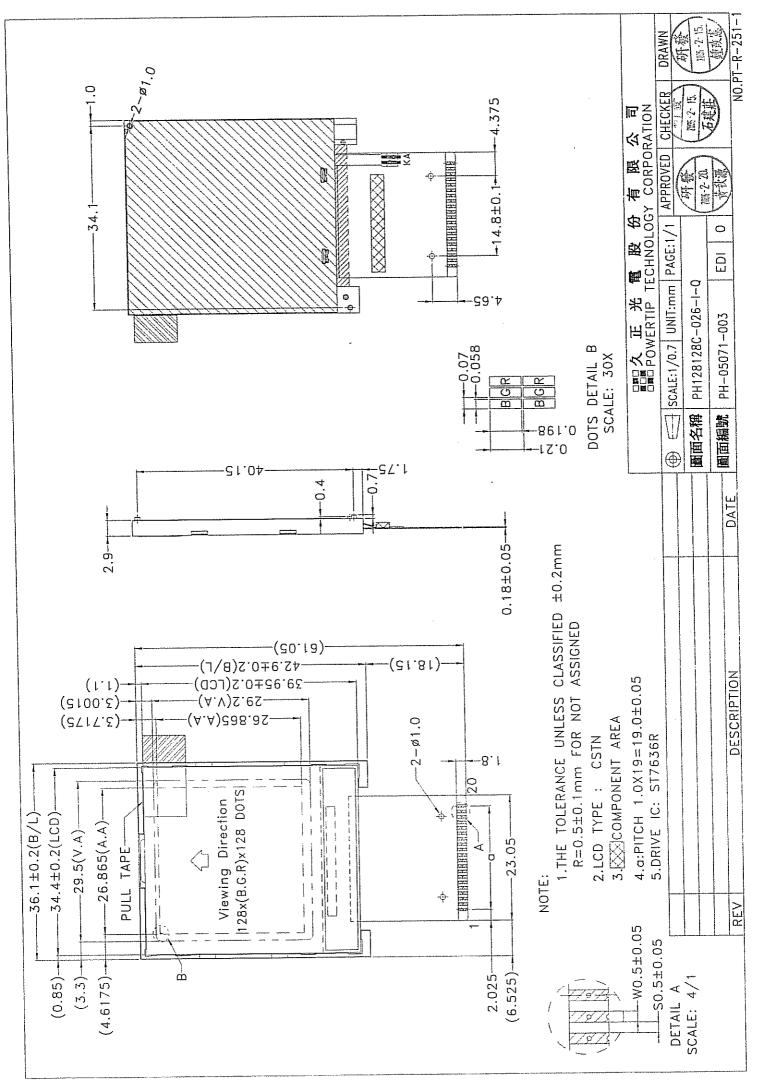
5.4 TERMS OF WARRANTY

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.



PH128128C-026-I-Q LCM Model

LCM包裝規格書

LCM Packaging Specifications (For Tray)

Approve Check Contact 鐘並寫 节认原 石建莊 DATE 初版 版次Ver 06'02.15 06'02.15 0

1.包裝材料規格表 (Packaging Material): (per carton)

No.	Item	Model	Dimensions (mm)	Quantity
1	成品 (LCD Panel)	PH128128C-026-I-Q	36.1 X 42.9	864
2	多層薄膜(1)POF	OTFILM0BA03ABA	19"X350X0.015	6
3	TRAY 盤 (2)	PH-128128-019	352 X 260 X 10.8	54
4	内盒(3)Product Box	BX36627063ABBA	393 X 274 X 68	6
5	保力龍板(4)Polylon board	OTPLB00PL08ABA	550 X 393 X 20	2
6	外紙箱(5)Carton	BX57041027CCBA	570 X 410 X 265	1
7				
8				
9				

2.單箱數量規格表 (Packaging Specifications and Quantity):

(1)LCD quantity per box: no per tray x no of tray 144 18 (2)Total LCD quantity in carton: no of boxes 144

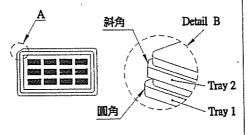
x quantity per box 864

Use empty tray 空盤 (4)Polylon board (1) POF Put products into the tray (2) Tray (5) Caton Tray stacking (3)Product Box

項 (REMARK) 特 記 事

1. Label Specifications:

MODEL: LOT NO: QUANTITY: CHECK:



Rotate tray 180 degrees and place on top of stack. Check the tray stack using Fig. B.

TRAY盤相疊時,需旋轉180度,請詳見B混圖

TRAY正式料號: TY12812819TZBA