SPECIFICATIONS

CUSTOMER - CKR057

SAMPLE CODE (Ver.) PS12864LRF-018-H01(Ver.C)

MASS PRODUCTION CODE (Ver.) PE12864LRF-018-H(Ver.B)

DRAWING NO. (Ver.) PE- 04011-002(Ver.C)

Customer Approved

Date:

Approv	Approved		QC Confirmed		ner
研發 1851-75. 量我觀	研發 94.11.23 張慶源	Q.A. DEPT. NOV 2 3.2005 NUMBER TRECOME.	王耀宗帝	建技 38.11.17 主大维	研發 圖4·15 林忠聖
Approval For S	pecifications O	nly.	2005.[[.22	林昭俊	

* 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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RECORDS OF REVISION

Date	Rev.	Description	Note	Design by
2005/02/17	0	Mass Production	_	Vodka
2005/06/21	А	Modify Drawing Pull Tape Direction Modify LCM Packaging Specifications	24 25	Vodka
2005/11/08	В	FPC cable length changed to 75mm, and improve the hardness of stiffener on FPC	_	Vodka

Total: 23 Page



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Note: For detailed information please refer to IC data sheet: NOVATEK---NT7532H-BDT



1. SPECIFICATIONS

1.1 Features

Item	Standard Value
Display Type	128 * 64 Dots
LCD Type	FSTN, Positive, Transflective
Driver Condition	LCD Module :1/65 Duty, 1/9 Bias
Viewing Direction	6 O'clock
Backlight	LED B/L
Weight	12 g
Interface 8 bits parallel data input	
Other(controller/driver IC)	NT7532H-BDT

1.2 Mechanical Specifications

Item	Standard Value	Unit
Outline Dimension	80.5 (W) ×45.0 (H) × 5.3 Max (T)	mm
Viewing Area	60.0 (L) * 32.6 (w)	mm
Active Area	55.01(L) * 27.49 (w)	mm
Dot Size	0.4 (W) × 0.4 (H)	mm
Dot Pitch	0.43 (W) × 0.43 (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	V_{DD}	-	-0.3	3.6	V
LCD Driver Supply Voltage	V _{SS} -V ₀	-	-0.3	14	V
Input Voltage	V_{IN}	-	-0.3	V _{DD} +0.3	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

 $V_{DD} = 2.85 \text{ V} \pm 0.15, V_{SS} = 0 \text{V}, \text{ Ta} = 25^{\circ}\text{C}$

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Logic Supply Voltage	V_{DD}	-	2.7	2.85	3.0	V
"H" Input Voltage	V _{IH}	-	0.8 V _{DD}	-	V _{DD}	V
"L" Input Voltage	V _{IL}	-	Vss	-	0.2 V _{DD}	V
"H" Output Voltage	V _{OH}	-	0.8 V _{DD}	-	V _{DD}	V
"L" Output Voltage	V _{OL}	-	Vss	-	0.2 V _{DD}	V
Supply Current	I _{DD}	V _{DD} = 2.85 V	-	0.2	1	mA
		V _{SS} –V0 (-20°C)	8.0	8.1	8.2	
LCM Driver Voltage	V_{OP}	V _{SS} – V0 (25°C)	7.9	8.0	8.1	V
		V _{SS} – V0 (70°C)	7.4	7.6	7.8	

1.5 Optical Characteristics

LCD Panel: 1/65 Duty, 1/9 Bias, $V_{LCD} = 8.0$ V, Ta = 25° C

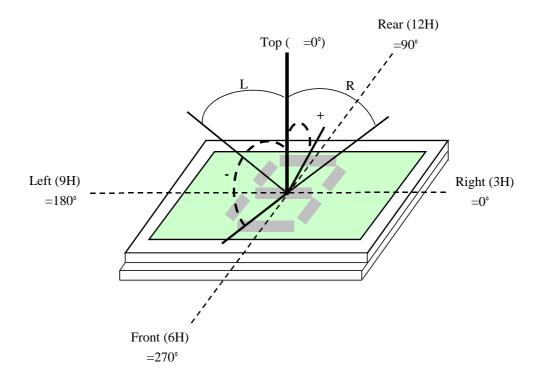
Item	Symbol	Conditions	Min.	Тур.	Max.	Reference
View Angle	θ	C <u>≥</u> 2.0,∅=270°	-40°	-	40°	Notes 1
Contrast Ratio	CR	θ= -5°, Ø=270°	2	4	-	Note 3
Response Time(rise)	Tr	θ= -5°, Ø=270°	-	100 ms	150 ms	Note 2
Response Time(fall)	Tf	θ= -5°, Ø=270°	-	260 ms	390 ms	Note 2



Note 1.

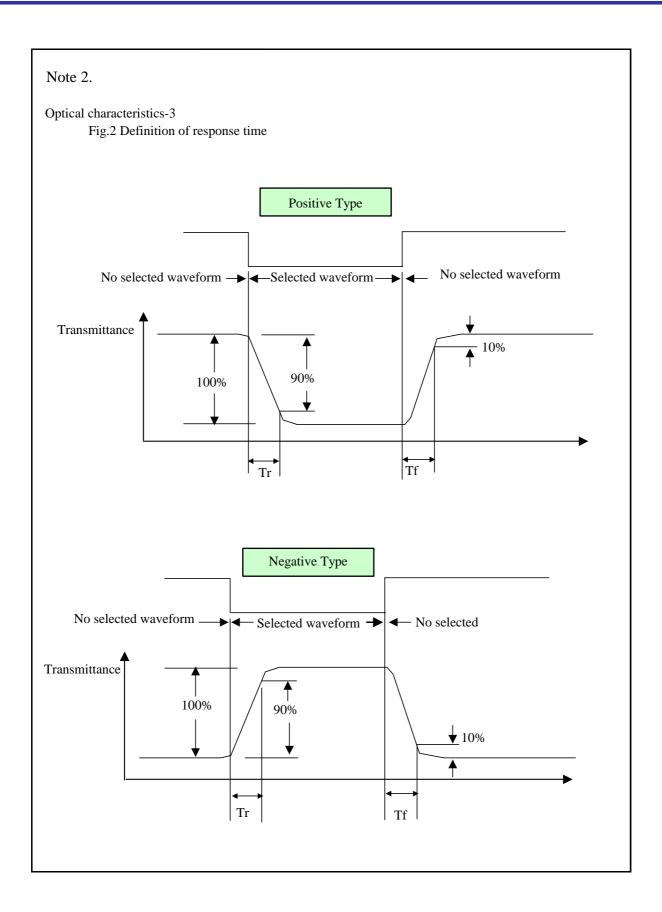
Optical characteristics-2

Viewing angle



Viewing angle







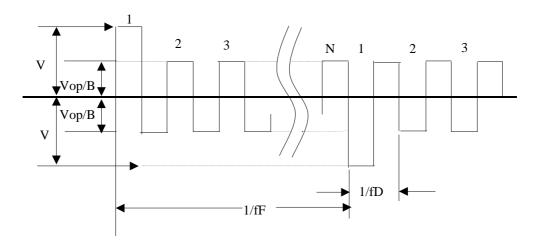
Electrical characteristics-2

2 Drive waveform

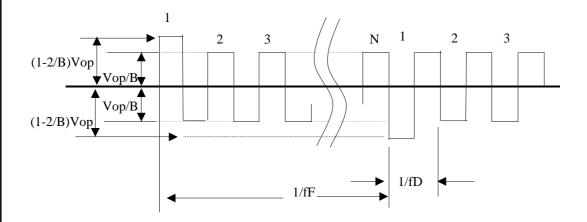
Vop: Drive voltage fF: Frame frequency 1/B: Bias fD: Drive frequency

N: Duty

(1) Selected waveform



(2) Non-Selected waveform

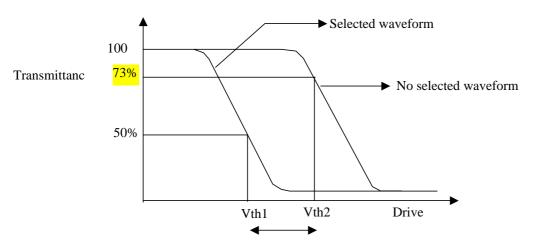


Note:

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



Note 3.: Definition of Vth

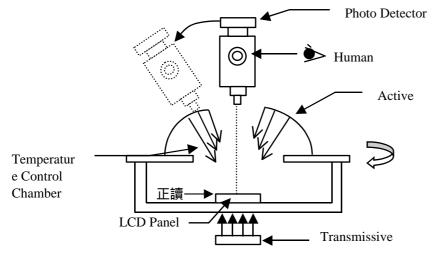


Active voltage range

	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



Measuring System: Autronic DMS-803



1.6 Backlight Characteristics

LCD Module with LED Backlight

Maximum Ratings

Item	Symbol	Condition	Min.	Max.	Unit
Forward Current	IF	Ta = 25 °C	-	160	mA
Reverse Voltage	VR	Ta = 25 °C	-	5	V
Power Dissipation	PO	Ta = 25 °C	-	0.4	W

Electrical / Optical Characteristics

Ta =25

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF = 100mA	-	2.2	2.4	V
Reverse Current	IR	VR= 4 V	-	-	100	mA
Average Brightness (with LCD)*1	IV	IF = 100 mA	4	8		cd/m ²
Wavelength (Without LCD)*1	Hue	IF=100 mA	568	-	573	nm
Wavelength (with LCD)*1	Hue	IF=100 mA	569	-	575	nm
Uniformity *2	В	IF= 100 mA	70	-	-	%
Color			Y/G			

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

^{*2:} B=B(min) / B(max) %



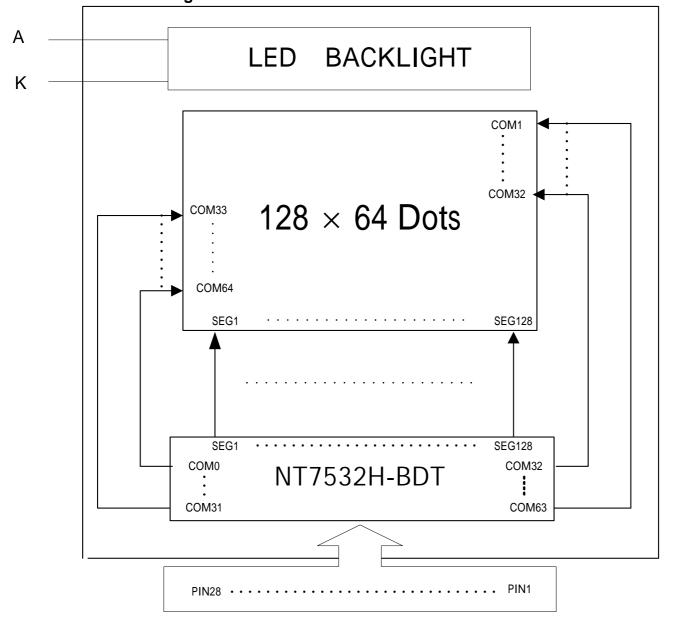
2. MODULE STRUCTURE

2.1 Counter Drawing

2.1.1 LCM Mechanical Diagram

* See Appendix

2.1.2 Block Diagram



Prese refer interface pin description for detail



2.2 Interface Pin Description

Pin No.	Symbol	Function
1	CS1	This is the chip select signal. When CS1 = "L" then the chip select
, , , , , , , , , , , , , , , , , , ,	001	becomes active, and data/command I/O is enabled.
2	/RES	/RES is set to "L", the settings are initialized.
	71120	The /RES signal level performs the reset operation.
		This is connect to the least significant bit of the normal MPU
_		address bus,and it determines whether the data bits are data or a
3	A0	command.
		A0 = "H": Indicates that DB0 to DB7 are display data.
		A0 = "L": Indicates that DB0 to DB7 are control data.
		When connected to an 8080 MPU, this is LOW active. This
4	/WR	terminal connects to the 8080 MPU /WR signal. The signals on
4	/ / / / /	the data bus are latched at the rising edge of the/ WR signal. When R/W = "H": Read.
		When R/W = "L" : Write.
		When connected to an 8080 MPU, this is LOW active. This pin
5	/RD	is connected to the /RD signal of the 8080 MPU, and the NT7532
		series data bus is in an output status when this signal is "L".
6	DB0	
7	DB1	This is an 8-bit bi-directional data bus that connects to an 8-bit or
8	DB2	16-bit standard MPU data bus.
9	DB3	When the serial interface is selected (P/S = "L"), DB7 serves as
10	DB4	the serial data input terminal (SI) and DB6 serves as the serial clock input terminal (SCL).
11	DB5	At the same time, DB0 to DB5 are set to high impedance. When
12	DB6	the chip select is inactive, DB0 to DB7 are set to high impedance.
13	DB7	
14	V_{DD}	Power Supply (V _{DD} =2.85V)
15	V _{SS}	Power Supply (V _{SS} =0)
16	VOUT	DC/DC voltage converter output
17	CAP3+	Capacitor 3+ pad for internal DC/DC voltage converter

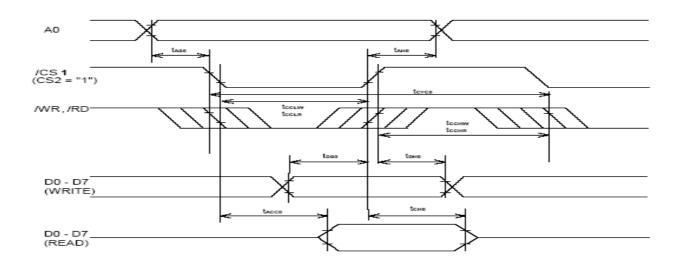


18	CAP1-	Capacitor 1- pad for internal DC/DC voltage converter
19	CAP1+	Capacitor 1+ pad for internal DC/DC voltage converter
20	CAP2+	Capacitor 2+ pad for internal DC/DC voltage converter
21	CAP2-	Capacitor 2- pad for internal DC/DC voltage converter
22	V1	LCD driver supply voltages The voltage determined by LCD cell is cell impedance-converted
23	V2	by a resistive driver or an operational amplifier for application. Voltages should be according the following
24	V3	relationship; V0 ≥ V1 ≥ V2 ≥ V3 ≥ V4 ≥ VSS
25	V4	When the internal power circuit is active, these voltages are
26	V0	generated as following table according to the state of LCD Bias command.
27	LCD_ID	no connection
28	IRS	This terminal selects the resistors for the V0 voltage level adjustment. IRS = "H": Use the internal resistors. IRS = "L": Do not use the internal resistors. The V0 voltage level is regulated by an external resistive Voltage divider attached to the VR terminal. This pin is Enabled only when the master operation mode is selected It is fixed to either "H" or "L" when the slave operation mode Is selected

Α	+	Power supply LED backlight anode input(+)
K	-	Power supply LED backlight cathode input(-)



2.3 Timing Characteristics



 $(V_{DD} = 2.7 \text{ to } 3.0 \text{ V})$

						(
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Address hold time	t AH8	0				
Address setup time	t _{AS8}	0				
System cycle time	tcyc8	300				
Control L pulse width (/WR)	tcclw	90				
Control L pulse width (/RD)	tcclr	120			ns	
Control L pulse width (/WR)	t cchw	120			113	
Control L pulse width (/RD)	t cchr	60				
Data setup time	t _{DS8}	40				
Data hold time	t _{DH8}	15				
/RD access time	t _{ACC8}			140		C _L = 100pf
Output disable time	t _{CH8}	10		100		C _L = 100pf

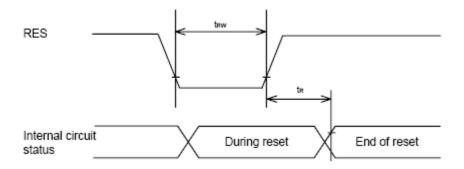
^{*1.} The input signal rise time and fall time (tr,tf) is specified at 15ns or less. When the system cycle time is extremely fast,(tr+tf) (tcyc8-tcclw-tcchw) for (tr+tf) (tcyc8-tcclr-tcchr) are specified.

^{*2.} All timing is specified using 20% and 80% of VDD as the reference.

^{*3.} tccLw and tccLR are specified as the overlap between CS1 being "L" and /WR and /RD being at the "L" level.



Reset Timing



 $(V_{DD} = 2.7 \text{ to } 3.0 \text{ V})$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reset time	t R			1.0	us	
Reset low pulse width	trw	1.0				



2.4 Display Command

Command	Command Code				Function							
Oommand	A0	RD	WR	D7	D6	D5	D4	D3	D2	D2	D0	runduon
(1) Diapley ON/OFF	0	1	0	1	0	1	0	1	1	1	0	LCD display ON/OFF
(1) Display ON/OFF											1	0:OFF, 1:ON
(2) Display start line set	0	1	0	0	1	D	isnla	v sta	art ac	ddres	: <	Sets the display RAM display
(2) Biopidy start line set		'	•		'		Юріс	y ou	ii C G C	adi CC		start line address
(3) Page address set	0	1	0	1	0	1	1	Pa	ige a	ddre	ss	Sets the display RAM page address
(4) Column address set upper bit	0	1	0	0	0	0	1	column address			Sets the most significant 4 bits of the display RAM column address.	
Column address set lower bit	0	1	0	0	0	0	0	column address			Sets the least significant 4 bits of the display RAM column address.	
(5) Status read	0	0	1		Sta	itus		0	0	0	0	Reads the status data
(6) Display data write	1	1	0			1	Vrite	Vrite data			Writes to the display RAM	
(7) Display data read	1	0	1			F	Read	data	a			Reads from the display RAM
(0) ADC coloct	0	1	0	1	0	1	0	0	0	0	0	Sets the display RAM address
(8) ADC select											1	SEG output correspondence 0: normal, 1: reverse
(9)Display	0	1	0	1	0	1	0	0	1	1	0	Sets the LCD display RAM
normal/ reverse											1	normal/reverse 0: normal, 1: reverse
(10) Dioplay all points	0	1	0	1	0	1	0	0	1	0	0	Display all points
(10) Display all points ON/OFF											1	0: normal display,
		1		4	_	4			0	4		1: all points ON Sets the LCD drive voltage
(11) LCD bias set	0	1	0	1	0	1	0	0	0	1	0	bias ratio
											1	0: 1/9, 1:1/7
(12) Read/modify/write	0	1	0	1	1	1	0	0	0	0	0	Column address increment At write: +1
(12) Nead/IIIOdily/Wille	U	'	U	'	'	'	U	U	0		U	At read: 0
(13) End	0	1	0	1	1	1	0	1	1	1	0	Clear read/modify/write
(14) Reset	0	1	0	1	1	1	0	0	0	1	0	Internal reset



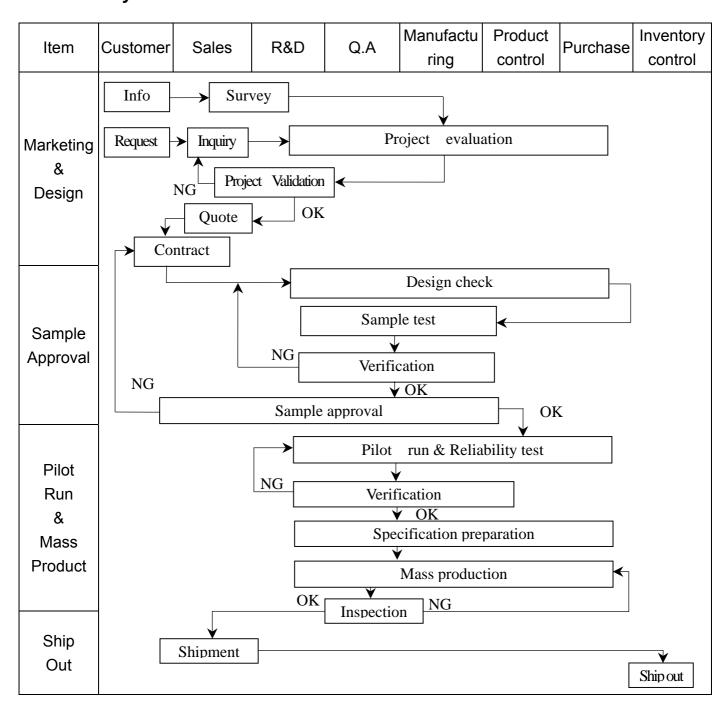
(15) Common output	0	1	0	1	1	0	0	0	*	*	*	Select COM output scan direction
mode select								1				0: normal direction,
												1: reverse direction
(16) Power control set	0	1	0	0	0	1	0	1		erat mode	_	Select internal power supply operating mode
(17) V5 voltage regulator internal resistor ratio set	0	1	0	0	0	1	0	0	Resistor ratio			Select internal resistor ratio (Rb/Ra) mode
(18) Electronic volume mode set	0	1	0	1	0	0	0	0	0	0	1	
Electronic volume register set	0	1	0	*	*	Ele	ectroi	nic v	olum	e va	lue	Set the V5 output voltage electronic volume register.
(19) Static indicator	0	1	0	1	0	1	0	1	1	0	0	0: OFF
ON/OFF											1	1: ON
Static indicator register set	1	0	1	*	*	*	*	*	*	Мс	de	Set the flashing mode
(20) Power saver												Display OFF and display all points ON compound command
(21) NOP	0	1	0	1	1	1	0	0	0	1	1	Command for non-operation
(22) Test	0	1	0	1	1	1	1	*	*	*	*	Command for IC test. Do not use this command

(Note) *: disabled data

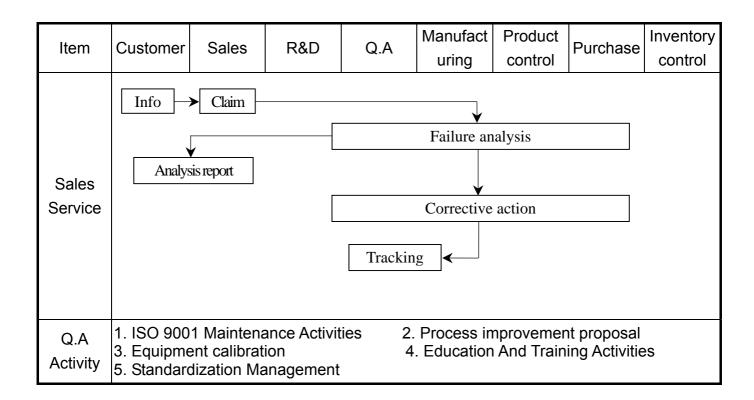


3. QUALITY ASSURANCE SYSTEM

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:

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. (=) / =	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
4	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		Minor
	scratch, bubble)			Minor
	ooratoric babbio y	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 A=(L + W) / 2	There is particle between the circuits in solder mask	N.G	Minor
	Λ=(L · VV) / Z	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
	7 (2 * 17)72	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 ' W) / Z	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 C	ondition				
1	High Temperature Storage	Storage at 80 ± 2°C 96~100 hrs Surrounding temperature, then storage at normal condition 4hrs					
2	Low Temperature Storage	Storage at -30 ± 2°C 96~100 hrs Surrounding temperature, then storage at normal condition 4hrs					
3	High Temperature /Humidity Storage	1.Storage 96~100 hrs 60 ± 2°C, 90~95%RH surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer). or 2.Storage 96~100 hrs 40 ± 2°C, 90~95%RH surrounding temperature, then storage at normal condition 4 hrs.					
4	Temperature Cycling	$ \begin{array}{c} -20^{\circ}\text{C} \rightarrow 25^{\circ}\text{C} \rightarrow 70^{\circ}\text{C} \rightarrow 25^{\circ}\text{C} \\ \hline (30\text{mins}) \text{ (5mins) (5mins)} \\ \hline 10 \text{ Cycle} \end{array} $					
5	Vibration	,	ninute)1.5mm tion * (each 2hrs)				
6	ESD Test	Air Discharge: Apply 8 KV with 10 times discharge for each polarity +/- Testing location : With custome	Contact Discharge: Apply 5KV with 10 times discharge for each polarity +/-				
7	Drop Test	Packing Weight (Kg) 0 ~ 45.4 122 45.4 ~ 90.8 76 90.8 ~ 454 Over 454 Drop Height (cm) 122 45.4 ~ 90.8 76					



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 \pm 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.

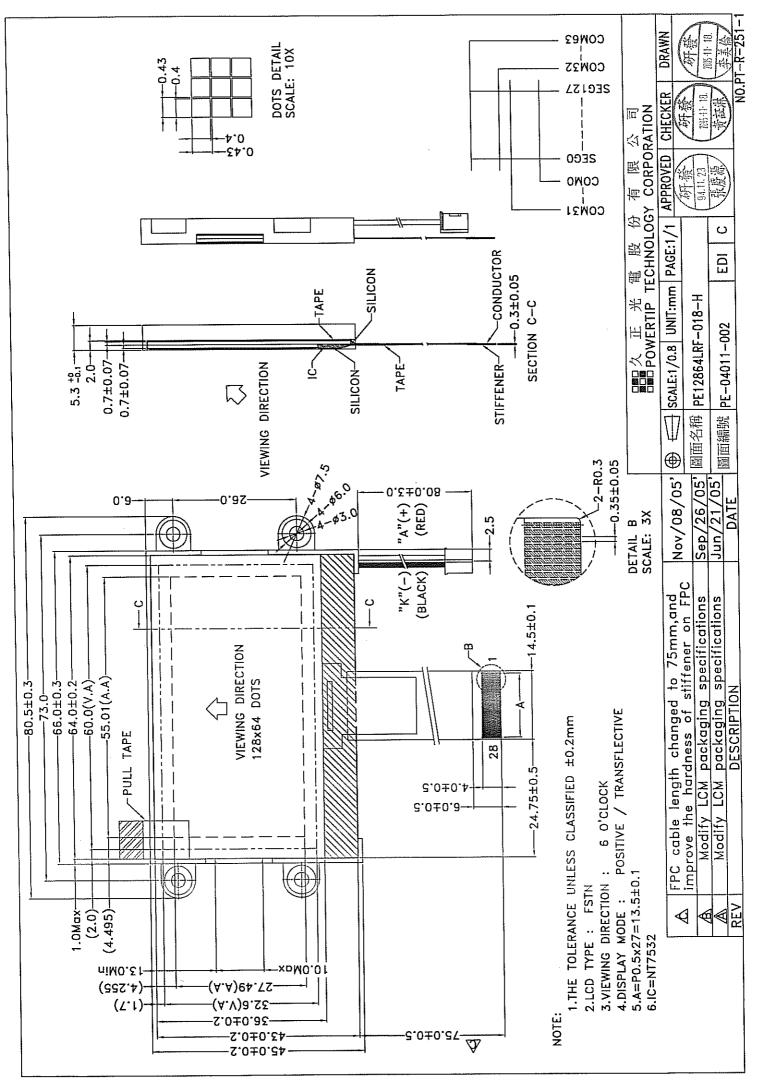
5.4 TERMS OF WARRANTY

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.



LCM Model 版次Ver.C

PE12864LRF-018-H

LCM包裝規格書 LCM Packaging Specifications (For Tray)

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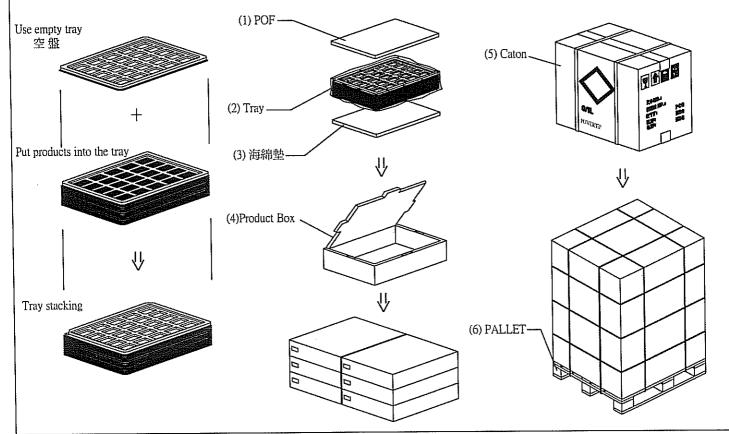
1.包裝材料規格表 (Packag	ing Material): (per carton)
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No.	Item	Model	Dimensions (mm)	Quantity
1	成品 (LCM)	PE12864LRF-018-H	64.0 X 43.0	6048
2	多層薄膜(1)POF	OTFILM0BA03ABA	19"X350X0.015	126
3	TRAY 盤 (2)	TY128064I0TZ0A	295 X 245 X 16	1008
4	海綿墊(3)	OTFOAM00006ABA	290 X 240 X 10	252
5	C3內盒(4)Product Box	BX31025510AABA	310 X 255 X 100	126
6	外紙箱(5)Carton	BX52732536CCBA	527 X 325 X 360	21
7	棧板(6)PALLET	OTPALLET002ABA	1200 X 1000 X 130	1
8				
9				

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

(1)LCM quantity per box: no per tray	6	x no of tray	8	=	48
lan regree : 1		C 1	_		000

(2)Total LCM quantity in carton: quantity per box 48 x no of boxes 6 = 288 (2)Total LCM quantity in pallet: quantity per carton 288 x no of cartons 21 = 6048



特 記 事 項(REMARK)

1. Label Specifications:

TYPE	PE12864LRF-0	18-H		
LOT.NO	XXXXXXX			
QTY	48	PCS		
DATE	XXXX.XX.XX			
NOTE	LSP350T PE12	864 Y/G		

- 2.Rotate tray 180 degrees and place on top of stack. (TRAY盤相疊時,需旋轉180度)
- 3.It's also suitable to Panel
- (可適用於單品包裝)
- 4.外箱擺放方式:一層擺放7箱外箱,共3層 7箱x3層=21箱外箱
- 5.不滿一棧板之尾數箱,不須用棧板出貨
- 6.外圍加打包帶及外部封塑膠膜