HITACHI

KAOHSIUNG HITACHI
ELECTRONICS CO.,LTD
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FOR	MESSRS :	
IOIN	MITOOLIO .	

DATE: May.28,2007

CUSTOMER'S ACCEPTANCE SPECIFICATIONS SP14N01L6VLCZ

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* When products will be discontinued, customers will be informed by HITACHI with twelve months prior announcement.

ACCEPTED BY:

PROPOSED BY; Jan Uma

KAOHSIUNG HITACHI	Sh.	7B64PS 2701- SP14N01L6VLCZ-4	PAGE	1_1/1
ELECTRONICS CO.,LTD.	No.	75041 0 2701-01 14N01E0VE02-4	I AGE	1-1/1

RECORD OF REVISION

DATE	OUEET N	O DATA DV
DATE	SHEET No.	SUMMARY
Oct.22,'04	7B64PS 2705 – SP14N01L6VLCZ-2	5.2 ELECTRICAL CHARACTERISTICS OF BACKLIGHT Added LED circuit diagram
	PAGE 5 – 1/1	Changed SYMBOL MIN. TYP. MAX.
		VLED - (T.B.D) -
		ILED - (T.B.D) -
		SYMBOL MIN. TYP. MAX.
		VLED 4.8 5.0 5.2
· ·		ILED - 130 140
	7B64PS 2706 –	6.2 OPTICAL CHARACTERISTICS OF BACKLIGHT
	SP14N01L6VLCZ-2	Changed
	PAGE 6 – 3/3	ILED: (T.B.D) → 130
Jun.17,'05	7B64PS 2705 – SP14N01L6VLCZ-3	5.2 ELECTRICAL CHARACTERISTICS OF BACKLIGHT-Changed
	PAGE 5 – 1/1	Changed ————————————————————————————————————
		ILED HED HED HED
		VLED(+) O
		VLED(-) O VLED(-) O VLED(-) O
May.28,'07	7B64PS 2704- SP14N01L6VLCZ-4	4.2 ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS
	Page 4-1/1	Added Operating Life : (40,000b)
		Operating Life : (40,000h)

Sh.

No.

DATE May.28, 07

7B64PS 2702-SP14N01L6VLCZ-4 | PAGE | 2-1/2

KAOHSIUNG HITACHI

ELECTRONICS

RECORD OF REVISION DATE SHEET No. SUMMARY May.28,'07 7B64PS 2705-5.2 ELECTRICAL CHARACTERISTICS OF LED SP14N01L6VLCZ-4 **BACKLIGHT** Revised Page 5-1/1 **ITEM** TYP. MAX. Power Supply Current for LED 130 140 **ITEM** TYP. MAX. Power Supply Current for LED 80 90 Ambient Temperature vs. Allowable Forward Current Ambient Temperature vs. Allowable Forward Current 40 30 30 20 10 0 30 90 7B64PS 2706-6.2 OPTICAL CHARACTERISTICS OF BACKLIGHT SP14N01L6VLCZ-4 Revised: Page 6-3/3 **ITEM** MIN. TYP. NOTE **Brightness** 120 150 ILED=130mA **ITEM** MIN. TYP. NOTE : **Brightness** 170 200 ILED=(80)mA 9.3 Internal Pin Connection 7B64PS 2709-Changed: SP14N01L6VLCZ-4 CFL 1/F: Mitsumi M63M83 - 04 \rightarrow JAE IL-G-4S-S3C2-SA Page 9-3/3 12. DESIGNATION OF LOT MARK 7B64PS 2712-SP14N01L6VLCZ-4 Added Page 12-1/1 REV No. ITEM LOT No. CFL I/F Connector: Mitsumi M63M83 - 04 1.CFL I/F Connector: JAE IL-G-4S-S3C2-SA Α 7102T 2.Operating Life (40,000h) KAOHSIUNG HITACHI Sh. DATE | May.28, '07 PAGE 2-2/2

No.

ELECTRONICS CO.,LTD.

7B64PS 2702-SP14N01L6VLCZ-4

3. GENERAL SPECIFICATIONS

(1) Part Name

(2) Outer Dimensions

(3) Viewing Area

(4) Dot Size

(5) Dot Pitch

(6) Dot Number (Resolution)

(7) Duty Ratio

(8) LCD Type

(9) Viewing Direction

(10) Back Light Type

(11) LCD Controller

(12) DC/DC Circuit

SP14N01L6VLCZ

159.4(W)mm x 101.0(H)mm x 11.0(D) mm (max.)

123 mm min. x 68 mm min.

0.48(W)min. x 0.48(H)min.

0.50(W)mm x 0.50(H)mm

240 (W) x 128 (H)

1/128

Transmissive type F-STN

With anti-glare type upper polarizer

6 O'clock

LED (Color: White).

T6963C / Toshiba

Built-in

4. ABSOLUTE MAXIMUM RATINGS

4.1 ELECTRICAL ABSOLUTE MAXIMUM RATINGS.

VSS=0V:STANDARD

ITEM	SYMBOL	MIN.	MAX.	UNIT	COMMENT
Power Supply For Logic	VDD-VSS	0	7.0	V	
Input Signal Voltage	- Vi	-0.3	VDD+0.3	V	(Note 1)
Input Signal Current	li	0	1	Α	
Static Electricity	VESD0	-	±100	V	(Note 1,2,3)
	VESD1		±10	kV	(Note 1,2,4)

Note 1: Make certain you are grounded when handling LCM.

Note 2 : Energy storage capacitance 200pF , discharge resistance 250 Ω Ta=25 $^{\circ}$ C , 60%RH.

Note 3: Contact discharge to I/F connector pins.

Note 4: Contact discharge to front metal bezel.

4.2 ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS.

ITEM	OPERATING		STO	RAGE	COMMENT
	MIN.	MAX.	MIN.	MAX.	
Ambient Temperature	-10°C	60 ℃	-20 ℃	70 ℃	(Note 2,3)
Humidity	(Not			te 1)	without condensation
		2.45m/s ²		11.76m/s ²	
Vibration	-	(0.25G)		(1.2G)	(Note 4)
				(Note 5)	1h max.
		29.4m/s ²		490.0m/s ²	
Shock		(3 G)	-	(50 G)	XYZ directions
				(Note 5)	
Corrosive Gas	Not Accep	table	Not Accep	table	
Operating Life	(40,0	00 h)		.1	At 25℃ , I _{LED} =80mA
(Note 7)		(Note 6)			max.

Note 1 : Ta ≤ 40°C : 85%RH max.

Ta>40°C: Absolute humidity must be lower than the humidity of 85%RH at 40°C

Note 2 : Ta at -20° C < 48h, at 70° C < 168h.

Note 3: Background color changes slightly depending on ambient temperature.

This phenomenon is reversible.

Note 4:5Hz~100Hz (except resonance frequency)

Note 5: This module should be operated normally after finishing the test.

Note 6: When brightness reached 50% of initial brightness.

Note 7: Life time is estimated data.

KAOHSIUNG HITACHI ELECTRONICS COLTD.	DATE	May.28,'07	Sh.	7B64PS 2704-SP14N01L6VLCZ-4	PAGE	4-1/1
LEFECTIONICS CO.T. LD.			NO.			

5. ELECTRICAL CHARACTERISTICS

5.1 ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply Voltage For Logic	VDD-VSS	. -	4.75	5.0	5.25	V
Input Signal Voltage	Vi	H LEVEL	0.8VDD	, •	VDD	V
9		L LEVEL	0	-	0.2VDD	V
Power Supply Current For Logic (Note 1)	IDD	VDD-VSS=5.0V VEE-VSS=-15.0V	-	11.7	14.0	mA
Recommended		Ta= 0° C, $\phi = 0^{\circ}$	15.9	16.9	17.9	V
LC Driving Voltage	VDD-V0	Ta=25°C , <i>φ</i> =0°	14.8	15.8	16.8	V
(Note 2,3)		Ta=50°C , <i>∮</i> =0°	14.2	15.2	16.2	V

Note 1 : Test pattern is all "Q" , VDD-V0=15.8V , Ta=25 $^{\circ}$ C

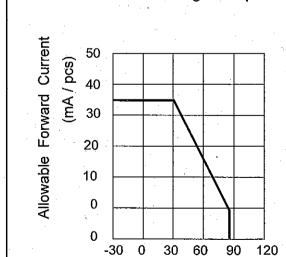
Note 2 : Recommended LC driving voltage may fluctuate about ±1.0V by each module test pattern is all "Q".

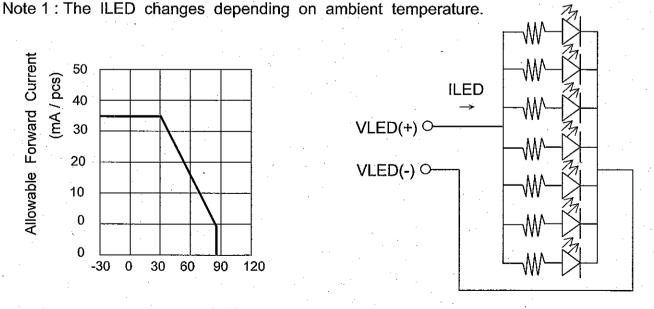
Note 3: LC Driving voltage depend on the value of resistant between R_{VR1} and R_{VR2}.

5.2 ELECTRICAL CHARACTERISTICS OF BACKLIGHT

Ta=25°C

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Power Supply Voltage for LED	VLED	-	4.8	5.0	5.2	V
Power Supply Current for LED	ILED	VLED=5.0V	-	80	90	mA





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6. OPTICAL CHARACTERISTICS

6.1 OPTICAL CHARACTERISTICS OF LCD

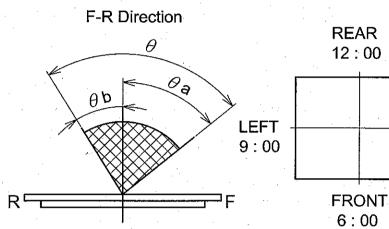
Ta=25 °C (Backlight On)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	NOTE	
Viewing Area	θ	K≧2.0	_	90		deg	4	
Viewing Alea	ф	φ		80		ucg]	
Contrast Ratio	К	φ=0°, θ=0°	_	20	-	<u>-</u>	2	
Response Time (Rise)	tr	φ=0°, θ=0°	-	(330)	-	ms	3	
Response Time (Fall)	tf	φ=0°, θ=0°	-	(150)	-	ms	3	

(Measure condition by HITACHI)

Note1. Definition of Viewing Angle

R-L Direction bα



*For This Product

The Viewing Direction is 6 O'clock (θ a $> \theta$ b)

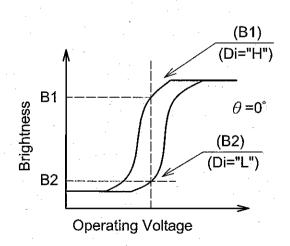
 $\theta = \theta a + \theta b$ $\phi = \phi a + \phi b$

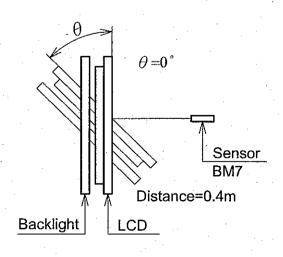
RIGHT

3:00

Note2. Definition of contrast"K"

Brightness on selected dot (B1) Brightness on non-selected dot (B2)





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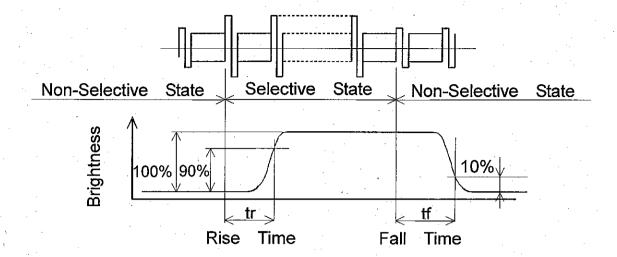
Sh. No.

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Note 3: Definition of optical response



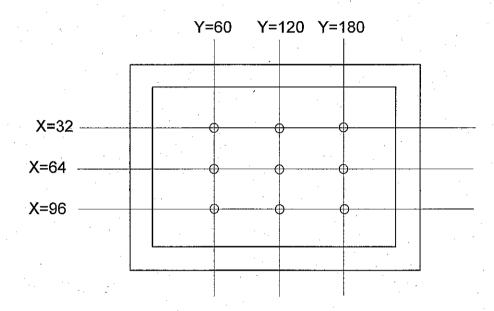
6.2 OPTICAL CHARACTERISTICS OF BACKLIGHT

ITEM	MIN.	TYP.	MAX.	UNIT	NOTE -
Brightness	170	200	-	cd/m²	ILED=(80)mA
Brightness Uniformity	-	-	±35	%	(Note 1,)

Ta=25°C, Display data should be all "ON".

The LCD driving voltage should be adjusted at the voltage where the peak contrast is obtained.

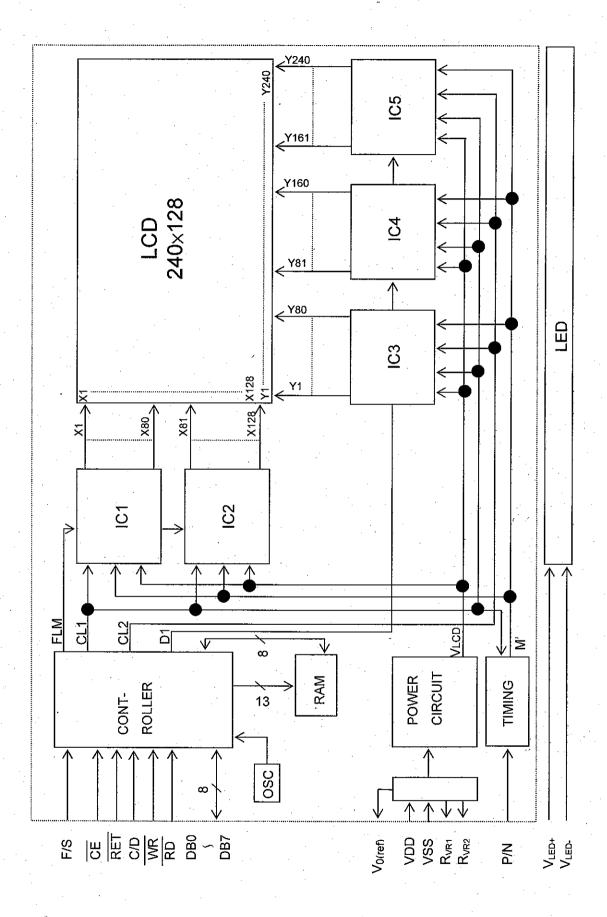
Note 1: Measure of the following 9 places on the display.



Definition of the brightness tolerance.

KAOHSIUNG HITACHI	DATE:	May 20 207	Sh.	7D0 4D0 0700 0D4 4N041 0V/L 07 4	DACE	6 2/2
ELECTRONICS CO.,LTD.	DATE	May.28,'07	No.	7B64PS 2706-SP14N01L6VLCZ-4	PAGE	0-3/3

7. BLOCK DIAGRAM

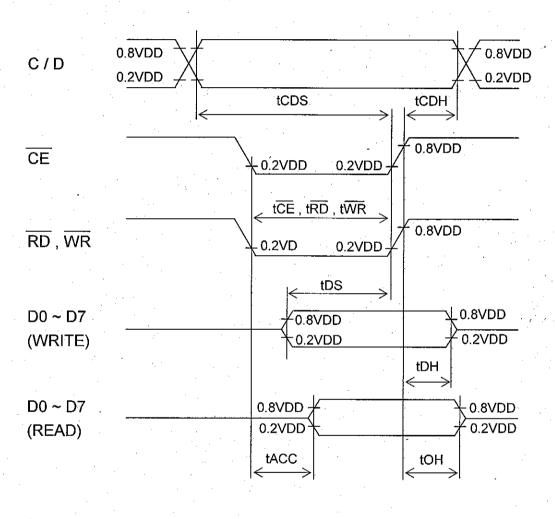


KAOHSIUNG HITACHI	DATE	May 29 '07	Sh.	7004D0 0707 0D44N04L0VII 07 4	DACE	7 4 /4
ELECTRONICS CO.,LTD.	DATE	May.28,'07	No.	7B64PS 2707-SP14N01L6VLCZ-4	PAGE	.7 - 17 1

8. INTERFACE TIMING

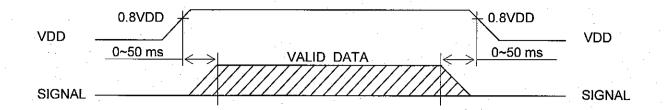
8.1 INTERFACE TIMING

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
C / D Setup Time	tCDS	100	-	-	ns
C / D Hold Time	tCHD	10	-	-	ns
CE, RD, WR Pulse Width	tCE, tRD, tWR	80	-	-	ns
Data Setup Time	tDS	80	-	_	ns
Data Hold Time	tDH	40	-	-	ns
Access Time	tACC	-	_	150	ns
Output Hold Time	tOH	10	-	50	ns

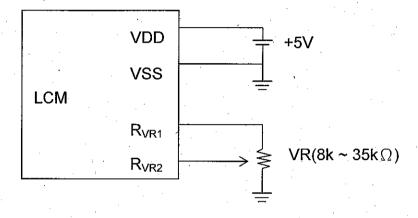


KAOHSIUNG HITACHI	D	NA 00.107	Sh.		D4.0=	0.450
ELECTRONICS CO.,LTD.	DATE	May.28,'07	No.	7B64PS 2708-SP14N01L6VLCZ-4	PAGE	8-1/2

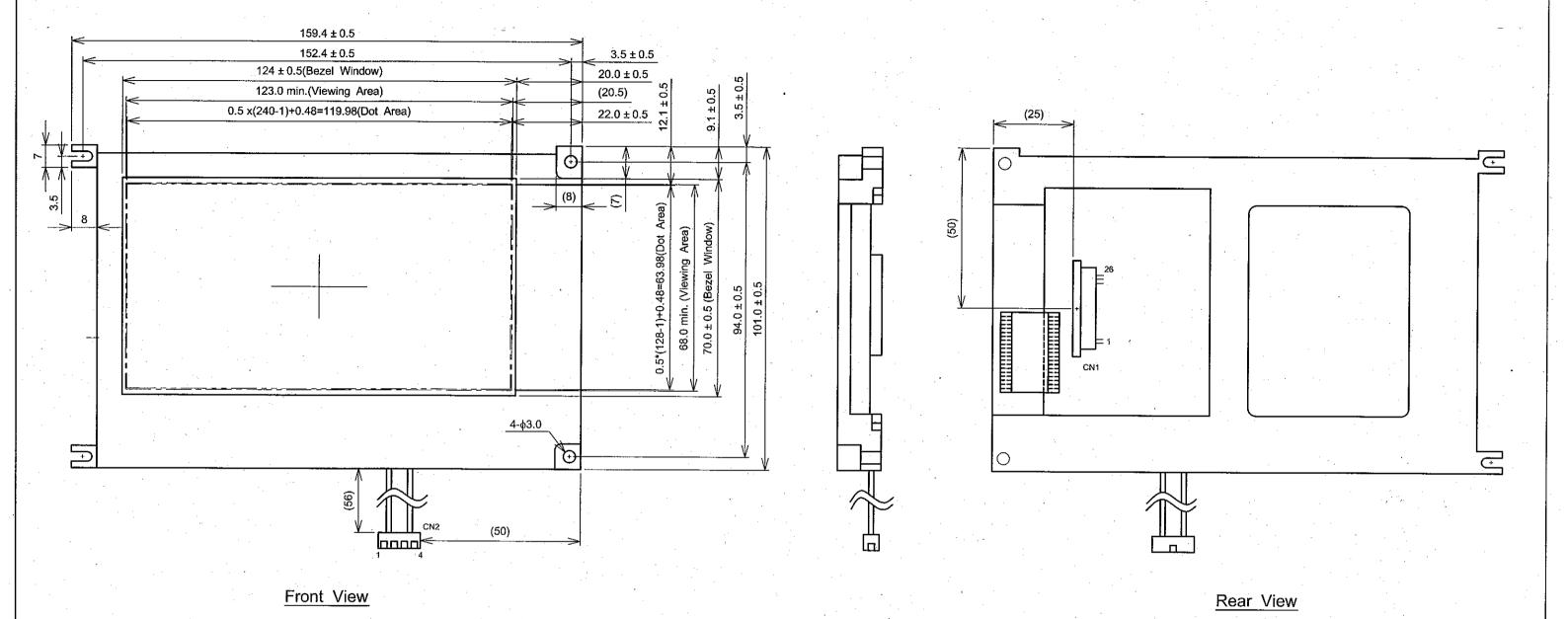
8.2 TIMING OF POWER SUPPLY AND INTERFACE SIGNAL

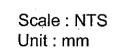


8.3 POWER SUPPLY FOR LCM



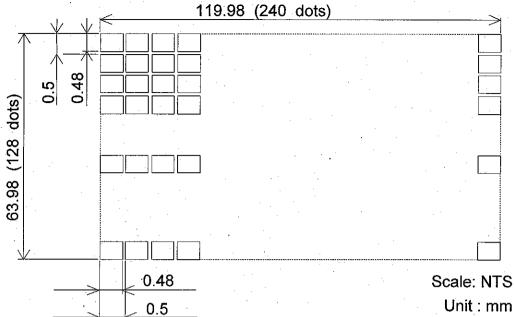
9. OUTLINE DIMENSIONS 9.1 OUTLINE DIMENSIONS





·	KAOHSIUNG HITACHI ELECTRONICS CO.,LTD.	DATE	May.28,'07	Sh. No.	7B63PS 2709-SP14N01L6VLCZ-4	PAGE	9-1/3	
	· · · · · · · · · · · · · · · · · · ·							

9.2 DISPLAY PATTERN



Measurement tolerance: ±0.1

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9.3 INTERNAL PIN CONNECTION

CN1: Pitch 1.0mm 26pins connector Suitable connector (Molex: 52207-2690)

Suitable conne PIN No.	SYMBOL	FUNCTION
1	VSS	GND
* 2	VDD	Power Supply for Logic
3	V0(ref)	No Connection . It is a test pin for reference setting resistant between V_{VR1} and V_{VR2}
4	C/D	WR="L" : C/D="H" Command Write C/D="L" Data Write RD="L" : C/D="H" Status Read C/D="L" Data Rwad
. 5	WR	Data Write (Data Write at "L")
6	RD	Data Read (Read Data at "L")
7	DB0	
- 8	DB1	
9	DB2	
10	DB3	Data Bus
11	DB4	Data bus
12	DB5	
13	DB6	
14	DB7	
15	CE	Chip Enable (CE must be "L")
16	RET	Reset
17	NC	No Connection
18	DOFF	VDD/Display , GND/Display off
19	F/S	Character Font Select: F/S="H" 6*8Font F/S="L" 8*8Font
20	P/N	Display Mode Reverse.
21	R _{VR1}	For Adjusting I.C. Driving Voltage
22	R _{VR2}	For Adjusting LC Driving Voltage
23	NC	No Connection
24	NC	No Connection
25	NC	No Connection
26	NC	No Connection

CN2: JAE IL-G-4S-S3C2-SA

PIN No.	SYMBOL	FUNCTION
1	VLED -	GND
2	NC	No Connection
3	NC	No Connection
4	VLED+	Power Supply for LED

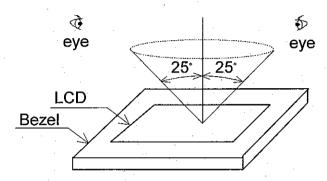
KAOHSIUNG HITACHI	DATE	May.28,'07	Sh.	7D04D0 0700 CD44N04L0VI 07.4	PAGE	9-3/3
ELECTRONICS CO.,LTD.	DATE	Way.20, 07	No.	7B64PS 2709-SP14N01L6VLCZ-4	FAGE	9-3/3

10. APPEARANCE STANDARD

10.1 APPEARANCE INSPECTION CONDITION

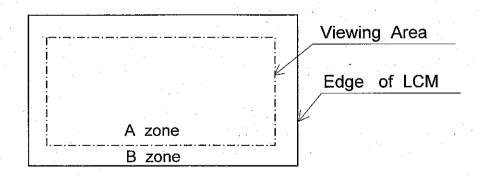
Visual inspection should be done under the following condition.

- (1) The inspection should be done under in the dark room.
- (2) The CFL should be lighted with the prescribed inverter.
- (3) The distance between eyes of an inspector and the LCD module is 25cm.
- (4) The viewing zone is shown the figure . Viewing angle ≤25°



10.2 DEFINITION OF EACH ZONE

A zone: Within the Viewing Area specified at page 9-1/3 of this document. B zone: Area between the Edge of LCM and the Viewing Area specified at page 9-1/3 of this document.



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ELECTRONICS CO.,LTD.	DATE	May.28,'07	No.	7864PS 2710-SP14N01L6VLC2-4	FAGE	10-1/3

10.3 APPEARANCE SPECIFICATION

*) If a problem occurs in respect to any of these items, both parties(Customer and HITACHI) will discuss in more detail

No.	ITEM	·	CRIT	CRITERIA						
	Scratches	Distinguished or				. ,	*	-		
		(To be judged		limit sar	mple)					
	Dent_	Same as above					*	-		
ľ	Wrinkles in Polarizer	Same as above	•				*			
	Bubbles	Average D	•	Max		Number				
		D(mr	/			otable				
	•		≦0.2			ore				
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		0.3 <d< td=""><td><u>≦0.5</u></td><td></td><td></td><td>3</td><td></td><td></td></d<>	<u>≦0.5</u>			3				
		0.5 <d< td=""><td>•</td><td></td><td>No</td><td>ne</td><td>·</td><td><u> </u></td></d<>	•		No	ne	·	<u> </u>		
	Stains,			entous].			
,	Foreign	Length	Width			mum Number	0	-		
	Materials,	L(mm)	W(mn		<i>P</i>	Acceptable				
	Dark Spot	L≦2.0		0.03		Ignore	<u> </u> -			
L		L≦3.0 ∕	0.03 <w≦< td=""><td></td><td></td><td>6</td><td></td><td></td></w≦<>			6				
<u> </u>		L≦2.5	<u></u> 0.05 <w≦< td=""><td></td><td></td><td>1</td><td></td><td>-</td></w≦<>			1		-		
			Rot			·				
		Average Diameter				Minimum				
C		D(mm)	Accepta	-		Space	_			
		D<0.2	Ignor	е			0	-		
		0.2 ≦D<0.33	8			10mm				
		0.33≦D	None							
D		Total	Filamentous							
		Those wiped or					.0	0		
	Color Tone	To be judged b		limit sam	iple		0	-		
	Color Uniformity	Same as above			•	NI I	0	-		
	Pinhole	Average D				Number				
	• .	D(mr	,		Accep			!		
		D≦0			•	ore	l.			
		0.15 <d≦0< td=""><td></td><td></td><td></td><td>0</td><td></td><td></td></d≦0<>				0				
	Contract	C≦0		N /les des		ore Minimum				
	Contrast	Average	Contrast	Maxim	ŀ	Minimum	О	· -		
	Irregularity (Spot)	Diameter D(mm)		Numb Accept		Space				
	(Opot)	D(IIIII) D≦0.25	To be	Igno						
		0.25 <d≦0.35< td=""><td>judged by</td><td>19110</td><td></td><td> 20mm</td><td></td><td></td></d≦0.35<>	judged by	19110		 20mm				
		$0.25 < D \le 0.35$ $0.35 < D \le 0.5$	HITACHI	4		20mm				
		0.5 < D ≤ 0.5 0.5 < D	HITAUH	Non	_	ZUIIIII				
•	<u> </u>	ן ע כ.ט		INOH	<u> </u>		l·	<u> </u>		

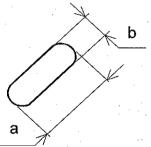
						
KAOHSIUNG HITACHI			Sh.		D. O.E.	40.070
ELECTRONICS CO.,LTD.	DATE	May.28,'07	No.	7B64PS 2710-SP14N01L6VLCZ-4	PAGE	10-2/3

No.	ITEM	CRITERIA							
	Contrast Irregularity (Line)	Width W(mm)	Length L(mm)	Maximum Number Acceptable	Minimum Space	-	. –		
L	(Filamentous)	W≦0.25	L≦1.2	2	20mm				
С		W≦0.2	L.≦1.5	3	20mm	0	-		
D.		W≦0.15	L≦2.0	3	20mm				
. ,		W≦0.1	L≦3.0	4	20mm				
		То	tal	(3		-		
	Rubbing Scratch	To be judged	by HITACHI st	andard		0	_		

No.	ITEM		CRITER	IA
L	Dark Spots, White Spots	Average Dian	neter D(mm)	Maximum Number Acceptable
E	Foreign Materials (Spot)	D≦	0.4	Ignore
D		D>	0.4	None
В		Width W(mm)	Length L(mm)	Maximum Number acceptable
/	Foreign Materials (Line)	W≦0.2	L<2.5	≦1
L		W≦0.2	L>2.5	None
		W>0.2	_	None
		Width W(mm)	Length L(mm)	Maximum Number Acceptable
	Caratahaa	W≦0.1	-	Ignore
	Scratches	0.1 <w≦0.2< td=""><td>L≦11.0</td><td>≦1</td></w≦0.2<>	L≦11.0	≦1
		0.1 <w≦0.2< td=""><td>L≧11.0</td><td>None</td></w≦0.2<>	L≧11.0	None
		W>0.2	<u>-</u>	None

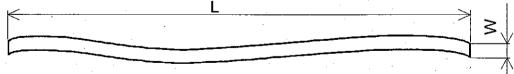
Note

(1) Definition of average diameter D

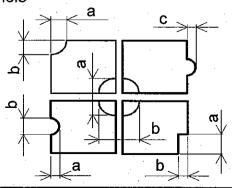


$$D = \frac{a+b}{2}$$

(2) Definition of length L and width W



(3) Definition of pinhole



C : Salience

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11 PRECAUTION IN DESIGN

11.1 LC DRIVING VOLTAGE (VEE) AND VIEWING ANGLE RANGE.

Setting VEE out of the recommended condition will be a cause for a change of viewing angle range.

11.2 CAUTION AGAINST STATIC CHARGE

As this module is provided with C-MOS LSI, the care to take such a precaution as grounding the operator's body is required when handling it.

11.3 POWER ON SEQUENCE

Input signals should not be applied to LCD module before power supply voltage is applied and reaches to specified voltage.

If above sequence is not kept, C-MOS LSI of LCD modules may be damaged due to latch up problem.

11.4 PACKAGING

(1) No leaving product is preferable in the place of high humidity for a long period of time.

For their storage in the place where temperature is 35°C or higher, special care to prevent them from high humidity is required.

A combination of high temperature and high humidity may cause them polarization degradation as well as bubble generation and polarizer peel-off.

Please keep the temperature and humidity within the specified range for use and storage.

- (2) Since upper/bottom polarizers tend to be easily damaged, they should be handled full with care so as not to get them touched, pushed or rubbed.
- (3) As the adhesives used for adhering upper/bottom polarizers are made of organic substances which will be deteriorated by a chemical reaction with such chemicals as acetone toluene, ethanol and isopropyl alcohol.

The following solvents are recommended for use: normal hexane

please contact us when it is necessary for you to use chemicals.

(4) Lightly wipe to clean the dirty surface with absorbent cotton waste or other soft material like chamois, soaked in the chemicals recommended without scrubbing it hardly.

To prevent the display surface from damage and keep the appearance in good state, it is sufficient, in general, to wipe it with absorbent cotton.

- (5) Immediately wipe off saliva or water drop attached on the display area because its long period adherence may cause deformation or faded color on the spot.
- (6) Foggy dew deposited on the surface and contact terminals due to coldness will be caused for polarizer damage, stain and dirt on product.

When necessary to take out the products from some place at low temperature for test, etc.

It is required for them to be warmed up in a container once at the temperature higher than that of room.

(7) Touching the display area and contact terminals with bare hands and contaminating them are prohibited, because the stain on the display area and poor insulation between terminals are often caused by being touched by bare hands. (Some cosmetics are detrimental to polarizers.)

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(8) In general the quality of glass is fragile so that it tends to be cracked or chipped in handling, specially on its periphery.

Be careful not to give it sharp shock caused by dropping down, etc.

11.5 CAUTION FOR OPERATION

(1) It is an indispensable condition to drive LCD's within the specified voltage limit since the higher voltage than the limit causes the shorter LCD life.

An electrochemical reaction due to direct current causes LCD's undesirable deterioration, so that the use of direct current driver should be avoided.

- (2) Response time will be extremely delayed at lower temperature than the operating temperature range and on the other hand at higher temperature LCD's show dark blue color in them.
 - However those phenomena do not mean malfunction or out of order with LCD's which will come back in the specified operating temperature range.
- (3) IF the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.
- (4) A slight dew depositing on terminals is a cause for electrochemical reaction resulting in terminal open circuit.
 - Usage under the relative condition of 40 °C 50%RH or less is required.
- (5) Prevent continuous 4 hours or over same pattern displaying, to avoid Image-Sticking.

11.6 STORAGE

- In case of storing for a long period of time (for instance, for years) for the purpose of replacement use, the following ways area recommended.
- (1) Storage in a polyethylene bag with the opening sealed, so the fresh air will not be entered from outside
- (2) Placing in a dark place where neither exposure to direct sunlight nor light is keeping temperature in the range from 0° C to 35° C.
- (3) Storing with no touch on polarizer surface by anything else.

 (It is not recommended to store them as they have been contained in the inner container at the time of delivery from us.)

11.7 SAFETY

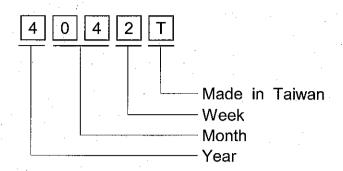
- (1) It is recommendable to crash damage or unnecessary LCD's into pieces and wash off liquid crystal by either of solvents such as acetone and ethanol, which should be burned up later.
- (2) When any liquid leaked out of a damage glass call comes in contact with your hands, please wash it off well with soap and water.

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12. DESIGNATION OF LOT MARK

12.1 Lot mark

Lot mark is consisted of 4 digital number.



YEAR	FIGURE IN
TEAR	LOT MARK
2007	7
2008	8
2009	9
2010	0
2011	1

Note 1: Some products have alphabet at the end or the first.

MONTH	FIGURE IN	MONTH	FIGURE IN
	LOT MARK	MONTH	LOT MARK
Jan.	01	Jul.	07
Feb.	02	Aug.	08
Mar.	03	Sep.	09
Apr.	04	Oct.	10
May	05	Nov.	11
Jun.	06	Dec.	12

WEEK (which week in month)	FIGURE IN LOT MARK		
1st	1		
2nd	2		
3th	3		
4th	4		
5th	5		

12.2 REVISION

REV No.	ITEM	LOT No.	
	CFL I/F Connector :		
<u> </u>	Mitsumi M63M83 - 04	-	
	1.CFL I/F Connector :JAE IL-G-4S-S3C2-SA	7400	
A	2.Operating Life (40,000h)	7102T	

12.3 LOCATION OF LOT MARK on the back side of LCM

4042T

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13. PRECAUTION FOR USE

- 13.1 A limit sample should be provided by the both parties on an occasion when the both parties agreed its necessity.
 Judgment by a limit sample shall take effect after the limit sample has been established and confirmed by the both parties.
- 13.2 On the following occasions, the handling of the problem should be decided through discussion and agreement between responsible persons of the both parties.
 - (1) When a question is arisen in the specifications.
 - (2) When a new problem is arisen which is not specified in this specifications.
 - (3) When an inspection specifications change or operating condition change in customer is reported to HITACHI, and some problem is arisen in this specification due to the change.
 - (4) When a new problem is arisen at the customer's operating set for sample evaluation in the customer site.

The precaution that should be observed when handling LCM have been explained above. If any points are unclear or if you have any request, please contact HITACHI.

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