

Product Description: 26 inch T	ΓFT-LCD	PANEL	
AUO Model Name: T260XW	02 VB		
Customer Part No/Project Na	ame:		
Customer Signature	Date	AUO	Date
Customer Signature	Date	AUO Approved By: PL Chen	Date
Customer Signature	Date		



Document Version: 1.0
Date:2006/12/1

Product Functional Specification

26" Color TFT-LCD Module Model Name: T260XW02 VB (QDI Model: QD26HL02)

() Preliminary Specification (*) Final Specification



This specification sheet is for model name change, since AUO merged QDI from 2006/10/1

This Specification Sheet keep the original QDI Model name and Spec.

New Model name and old model name comparison table as following:

	AUO	QDI
Model Name	T260XW02 VB	QD26HL02
Change Item	1. Carton Printing forma	ıt
	2. Product Serial label fo	rmat



			Revision History
REV.	Date	ECN NO.	Change Content
1	12/1		Change AUO product name



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This specification applies to a color TFT-LCD module, QD26HL02

2. Overview

This module is a color active matrix LCD module incorporating amorphous silicon TFT (Thin Film Transistor). It is composed of a color TFT-LCD panel; driver ICs, control circuit and power supply circuit and a backlight unit. Graphics and texts can be displayed on a 1366×3×768 dots panel with 16.7 million colors by using the LVDS (Low Voltage Differential Signaling) interface, 8-bit driving method and supplying +12V DC supply voltage for TFT-LCD panel driving.

The TFT-LCD panel used for this module has very high aperture ratio. A low-reflection and higher-color-saturation type color filter is also used for this panel. Therefore, high-brightness and high-contrast image, which is suitable for the LCD TV,HDTV and multimedia use, can be obtained by using this module.

[Features]

- 1) High aperture panel; high-brightness
- 2) Brilliant and high contrast image.
- 3) High speed response
- 4) WXGA resolution. 16:9
- 5) LVDS interface.
- 6) QSV technology
- 7) Wide viewing angle.



3. General Specifications

Parameter	Specifications	Unit
Display size	66.05 (26") Diagonal	cm
Active area	575.769 (H)×323.712 (V)	mm
Pixel format	1366 (H)×768 (V)	Pixel
	(1 pixel = R+G+B dots)	
Pixel pitch	0.4215 (H) × 0.4215 (V)	mm
Pixel configuration	R,G,B vertical stripe	
Display mode	Normally Black	
Unit outline dimensions	626 x 373	mm
Thickness	Typ 40.4	mm
Weight	Max. 4500	g
Surface treatment	Anti-glare(13%) and	
	hard-coating 3H	
Lamp Quantity	14 strait shape	pcs



4-1. TFT-LCD panel driving

CN1 (LVDS signals and +12V DC power supply)

Connector on Panel: FI-X30SSL-HF(Manufactured by JAE) or

Equivalent

Mating connector : FI-30C2L (Manufactured by JAE) or Equivalent

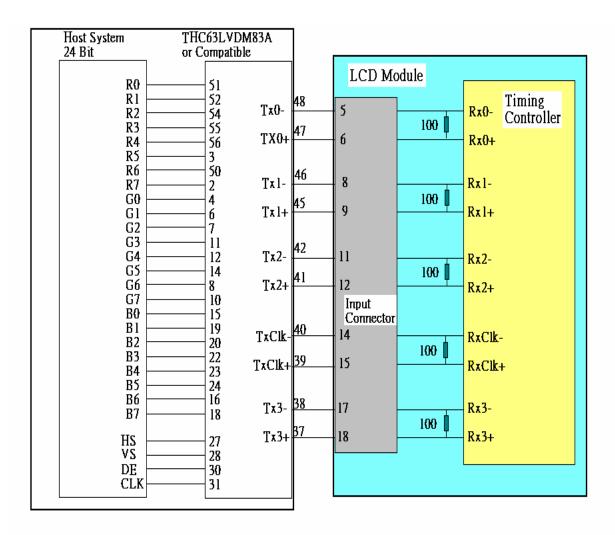
Pin No	Symbol	Description	Default
1	VCC	+12V, DC, Regulated	
2	VCC	+12V, DC, Regulated	
3	VCC	+12V, DC, Regulated	
4	VCC	+12V, DC, Regulated	
5	GND	Ground and Signal Return	
6	GND	Ground and Signal Return	
7	GND	Ground and Signal Return	
8	GND	Ground and Signal Return	
9	LVDS Option	Low/Open for Normal (NS), High for JEIDA	Default NS type
10	Reserved	N.C.	
11	GND	Ground and Signal Return for LVDS	
12	RXIN0-	LVDS Channel 0 negative	
13	RXIN0+	LVDS Channel 0 positive	
14	GND	Ground and Signal Return for LVDS	
15	RXIN1-	LVDS Channel 1 negative	
16	RXIN1+	LVDS Channel 1 positive	
17	GND	Ground and Signal Return for LVDS	
18	RXIN2-	LVDS Channel 2 negative	
19	RXIN2+	LVDS Channel 2 positive	
20	GND	Ground and Signal Return for LVDS	
21	RXCLKIN-	LVDS Clock negative	



22	RXCLKIN+	LVDS Clock Positive	
23	GND	Ground and Signal Return for LVDS	
24	RXIN3-	LVDS Channel 3 negative	
25	RXIN3+	LVDS Channel 3 positive	
26	GND	Ground and Signal Return for LVDS	
27	Reserved	N.C.	
28	Reserved	N.C.	
29	GND	Ground and Signal Return	
30	GND	Ground and Signal Return	

[Note 1] All GND(ground) pins should be connected together. [Note 2] All V_{DD} (power supply) pins should be connected together.







4-3-1. Inverter Connector

Connector on Inverter: S14B-PH-SM3(Manufactured by JST) or

Equivalent

Mating connector : PHR-14 (Manufactured by JST) or Equivalent

Pin No	Symbol	Description	Default
1	VIN	Operating Voltage Supply, +24V DC regulated	24V
2	VIN	Operating Voltage Supply, +24V DC regulated	24V
3	VIN	Operating Voltage Supply, +24V DC regulated	24V
4	VIN	Operating Voltage Supply, +24V DC regulated	24V
5	VIN	Operating Voltage Supply, +24V DC regulated	24V
6	BLGND	Ground and Current Return	GND
7	BLGND	Ground and Current Return	GND
8	BLGND	Ground and Current Return	GND
9	BLGND	Ground and Current Return	GND
10	BLGND	Ground and Current Return	GND
11	ADIM ⁽¹⁾	GND (0V) 80% Lum / Open (1.6V) 100% Lum / High (3.3V) 120% Lum	100%
12	ON/OFF	BL On-Off: Open/High (3.3V) for BL On as default	On
13	PDIM ⁽²⁾	PWM Dimming: Open/High (3.3V) for 100% Lum Analog Dimming: GND (0V) 20% Lum/ Open or High (3,3V) 100% Lum	100%
14	PWM Selection ⁽³⁾	GND: Duty Signal to 13pin, Open/High(3.3V): Analog Voltage to 13 pin	Analog

[Note]

(1) ADIM is control signal for Inverter's output Power to Back Light Lamp Bulb. Input Signal should be able to control Amplitude of Inverter Output voltage. From 0V to 3.3V, Inverter Output Voltage should be able to vary to control Brightness of Lamp from 80% to 120% Luminescence variation.



- (2) PDIM is PWM control input; i.e. for the given ADIM, this PDIM input should be able to control Width of Voltage Burst of inverter output for Lamp Driving. This input can have two type of input; Ordinary default setting will be DC level signal using Saw Tooth Wave control for PWM duty control. The other setting is Duty Signal Input with 3.3V TTL specification. These two method should be decided by 14th Pin input setting.
- (3) (3) 14 Pin is selection pin for PWM control method; if this pin is connected to GND, PDIM input of 13th Pin should have Logic Level Duty Signal for PWM control. If this is set to High or Open, 13th Pin should have DC level signal therefore the Inverter should have Saw Tooth Wave Generator to generate internal PWM signal. Default setting is "Analog", means when it is "Not Connected", 13th pin of PWM control should be have DC Level signal for PWM.

4-3-2. Lamp connector

Back Light Lamp Connectors and Pin Assignment are as follows.

Connectors attached to Lamp Lead: BHR-04VS-1(JST)

Mating connectors for Inverter output: SM02(12.0)B-BHS-1-TB(JST) or

4002P0220T(LANDWIN

Pin No	Symbol	Description	Default
1	CFL HOT	High Voltage AC Signal	
2	N.C.	Spacing for High Voltage Clearance	
3	CFL HOT	Return for High Voltage AC Signal	

5. Absolute Maximum Ratings

LCD module

Parameter	Symbol	Condition	Ratings	Unit	Remark
+12V supply voltage	V_{DD}	Ta=25℃	-0.3 ~ +14.0	V	
Storage temperature	Tstg	_	$-20 \sim +60$	್ರ	[Note1]
Operating temperature (Ambient)	Topa	_	0 ~ +50	್	

[Note1] Humidity: 90%RH Max. at Ta \leq 40°C.

Maximum wet-bulb temperature at 39°C or less at Ta>40

°C.

No condensation.

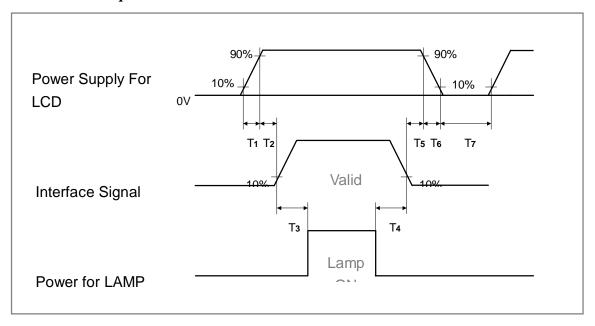


 $Ta = 25^{\circ}C$

	Parameter		Symbol	Min.	Тур.	Max.	Unit	Remark
V_{DD}	Supply voltage	ge	V_{DD}	11.4	+12.0	12.6	V	[Note2]
	Current dissi	ipation	I_{DD}	_	340	650	m A	[Note3]
	Power consu	mption	P _{DD}		4.08	7.8	W	[Note4]
Per	rmissive input r	ipple	V _{RP}	_	_	120	mV p-p	V _{DD} =+12V
volta	ge							
Diffe	rential input	High	V_{TH}	_	_	100	mV	
								$V_{CM}=+1.2V$
thr	reshold voltage	Low	V _{TL}	-100	_	_	mV	[Note1]
Ru	ish current		I _{RUSH}			3.0	A	Rise time
								470uS

[Note1] V_{CM} : Common mode voltage of LVDS driver.

[Note2] Power On-off sequence



 $50 \,\mu\,\text{s} < \text{T1,T6} \le 10\,\text{ms}$ 0.5ms $< \text{T2,T5} \le 50\,\text{ms}$ 200ms < T3,T4 T7>1 s

[Note3] Maximum current condition; Change to 1x1 dot checker board pattern. $V_{DD} \! = \! +12V$



R	G	В	R	G	В
R	G	В	R	G	В
R	G	В	R	G	В
R	G	В	R	G	В

[Note4] The power consumption is under typical input current condition.



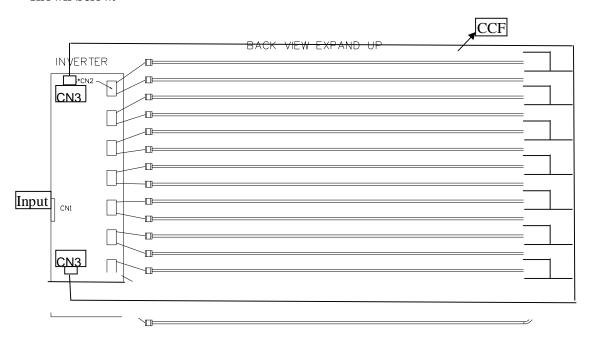
6-2. Backlight driving

The backlight system is a direct-lighting type with 14 stright shape CCFT (Cold Cathode Fluorescent Tube).

The characteristics of the lamp are shown in the following table.

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
Lamp current range	$I_{\rm L}$	3.7	4.2	4.7	mAr	[Note1]
					ms	
Lamp voltage	V _L	810	900	990	Vrms	
Lamp power	P _L		3.78		W	[Note2]
consumption						IL=4.2mA
Lamp frequency	$\mathbf{F}_{\mathbf{L}}$	52	55	58	kHz	[Note3]
Established starting	Vs			1850	Vrms	Ta=25
voltage						$^{\circ}$
				1650	Vrms	Ta=0°C [Note4]
Lamp life time	\mathbf{L}_{L}	50000			hour	[Note5]

[Note1] Lamp current is measured with current meter for high frequency as shown below.



[Note2] Calculated Value for reference ($I_L \times V_L$)

[Note3] Lamp frequency may produce interference with horizontal synchronous frequency, and this may cause beat on the display.

Therefore lamp frequency shall be detached as much as possible from



- the horizontal synchronous frequency and from the harmonics of horizontal synchronous to avoid interference.
- [Note4] The voltage above this value should be applied to the lamp for more than 1 second to start-up. Otherwise the lamp may not be turned on.
- [Note5] Lamp life time is defined as the time when either ① or ② occurs in the continuous operation under the condition of $Ta=25\,^{\circ}\text{C}$ and $I_L=4.2$ mArms.
- $\ensuremath{\ensuremath{\mathbb{O}}}$ Brightness becomes 50 % of the original value under standard condition.
 - ② Kick-off voltage at $Ta = 0^{\circ}C$ exceeds maximum value.
- [Note6] The performance of the backlight, for example life time or brightness, is much influenced by the characteristics of the DC-AC inverter for the lamp. When you design or order the inverter, please make sure that a poor lighting caused by the mismatch of the backlight and the inverter (miss-lighting, flicker, etc.) never occur. When you confirm it, the module should be operated in the same condition as it is installed in your instrument.
- [Note7] The lamp wire length is TBD mm(from AL back cover surface to connector, not including connector length)
- 6-3 Backlight inverter

6-3-1. Inverter Electrical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes
Power	$\mathbf{V}_{ extsf{DDB}}$	22.8	24	25.2	Vdc	
Supply Input Voltage						
Power	I _{DDB}	2700	3000	3300	mA	
Supply Input						
Current						
Power	$\mathbf{P}_{\mathbf{B}}$		72	79.2	W	[Note1]
Consumption						
In-rush	Irush			4.9	A	
current						

[Note1] The power consumption is under typical input current condition.

6.4 Luminance Controls



Method	Adjustment and	Lumir	nance Rati	o	PWM Selection	Remark
Voltage	Adjustment – Co	ontinuo	ous		High/Open for max.	
control	adjustment of					
	Luminance by a	djustin	ng the volt	age		
	ADIN PDIM Lum ratio	OV	1.6V/open	3.3V		
	3.3V	80%	100%	120%	6	
	0V		20%	\times		
PWM	Adjustment- The	e lumir	nance is		GND	See PWM
control	controlled by du	ty ratio	o of BRTP	•		timing
	signal when PW	M Sele	ection is G	ND		
	and PWM signa	l is inp	utted into			
	BRTP termial.					
	Duty Ratio					
	0.2	20%				
	1.0	1009				
		(max				



7. Timing characteristics of LCD module input signals

7-1. Timing characteristics

(This is specified at digital outputs of LVDS driver.)

	Symbol		Min	Тур	Max	Unit	Notes
ITIME							
DCLK	Frequency	F _{CLK}	-	80	82	MHz	
	Period	t_{CLK}	12.2	12.5	-	ns	
Hsync	Period	t _{HA}	1512	1648	1780	t _{CLK}	
	Width-Active	t _{HC}	8	16	-		
	Frequency	fH	44	48.54	52	kHz	
Vsync	Frequency	fv	47	60	63	Hz	
	Period	tvA	774	810	-	t _{HA}	
	Width-Active	t _{VC}	2	6	-		
Data Enable	Horizontal back	t _{HD}	8	80	-	t _{CLK}	
	Horizontal front	t _{HF}	130	186	-	t_{CLK}	_
	Horizontal active	t _{HE}	1366	1366	1366	t_{CLK}	
	Horizontal blanking	t _{HB}	146	282		t_{CLK}	
	Vertical back porch	t _{VD}	2	20	-	t _{HA}	
	Vertical front porch	t_{VF}	2	16	-	t _{HA}	
	Vertical active	$t_{ m VE}$	768	768	768	t _{HA}	
	Vertical blanking	t _{VB}	6	42		t _{HA}	

Notes: 1. The performance of electro-optical characteristics may be influenced by variance of the vertical refresh rate.

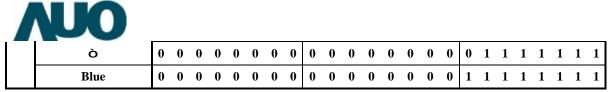
2. Hsync period will be a double number of character (8).

7-2 Signal Timing Waveform(The time "B" is t_{HB} on horizontal timing and t_{VB} on vertical timing)



8. Input Signals, Basic Display Colors and Gray Scale of Each Color

0,1	Colors &		-SP	<u> </u>					-	uy	<u> </u>			Sign											
	Gray scale	R0	R1	R2	R3	R4	R5	R6	R7	G0	G1	G2	G3	G4	G5	G6	G7	В0	B 1	B2	В3	B4	В5	B6	В7
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Basic	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Color	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	ñ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
y S	Darker	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scale of	ñ		á							ć	á				á										
of	Ò	â				â				â															
Red	Bright	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	ò	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	ñ	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ay s	Darker	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
òca	ñ				ć	á							á	á							á	á			
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f G	Bright	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Scale of Green	Ò	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
ଦ୍ର	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ау	ñ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Sca	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ale (ñ					á				á				á											
of E	ò				ź									à							ź				
Gray Scale of Blue	Bright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1



0 : Low level voltage, 1 : High level voltage



$Ta=25^{\circ}C, V_{DD}=+12V$

			14-25 0	, , , ,				1
Para	ameter	Symbol	Condition	Min.	Typ.	Max.	Unit	Remark
Viewing	L/R	θ 21, θ 22	CR>10	80	85		Deg.	[Note1,4]
angle	U	θ 11		80	85		Deg.	
	D	θ 12		80	85		Deg.	
range								
Contr	ast ratio	CRn	θ =0°	600	800	_		[Note2,4]
Respo	onse time	τ		_	25	_	ms	[Note3,4]
Rise tim	ne τr				21	_	ms	
Fall tim	e τ d				4	_	ms	
Gray	to gary				8	16	ms	
repor	nse time							
Chroma	ticity of	Wx		0.245	0.275	0.305		[Note4]
White (0	CIE 1931)	Wy		0.268	0.298	0.328		
Chroma	ticity of	Rx		0.608	0.638	0.668		NTSC 72%
Red (CI	E 1931)	Ry		0.305	0.335	0.365		
Chroma	ticity of	Gx		0.241	0.271	0.301		
Green (C	CIE 1931)	Gy		0.567	0.597	0.627		
Chroma	ticity of	Bx		0.115	0.145	0.175		
Blue (CI	E 1931)	Ву		0.035	0.065	0.095		
Luminai	nce of white	YL		400	500		Cd/m	
[N	lote4]						2	
White U	Iniformity	δw		_	-	1.3		[Note5]



% The measurement shall be executed 30 minutes after lighting at rating. (typical cond ition : $I_L = 4.2 mArms$)

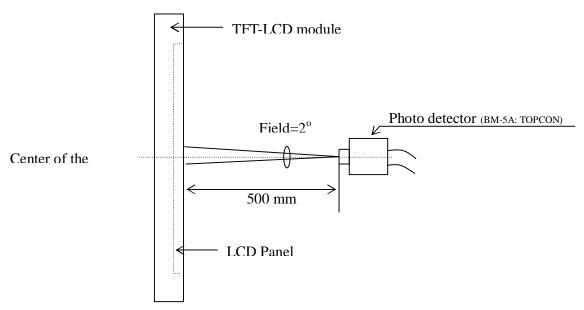
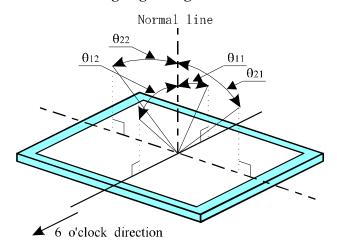


Fig 1. Optical characteristics measurement



The optical characteristics shall be measured in a dark room or equivalent state with the method shown in Fig.1 below.

[Note1] Definitions of viewing angle range:



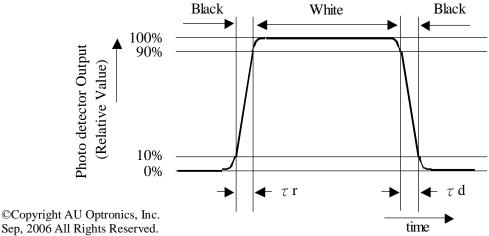
[Note2] Definition of contrast ratio:

The contrast ratio is defined as the following.

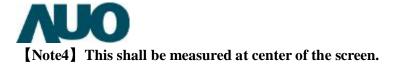
[Note3] Definition of response time:

The response time is defined as the following figure and shall be measured by

switching the input signal for "black" and "white".



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[Note5] Definition of white uniformity:
White uniformity is defined as the following with five measurements



The display quality of the color TFT-LCD module shall be in compliance with the Incoming Inspection Standard.

11 · Handling Precautions

- a) Be sure to turn off the power supply when inserting or disconnecting the cable.
 - b) Be sure to design the cabinet so that the module can be installed without any extra stress such as warp or twist.
 - c) Since the front polarizer is easily damaged, pay attention not to scratch it.
- d) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- e) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
 - f) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface. Handle with care.
 - g) Since CMOS LSI is used in this module, take care of static electricity and injure the human earth when handling.
 - h) Observe all other precautionary requirements in handling components.
 - i) This module has its circuitry PCBs on the rear side and should be handled carefully in order not to be stressed.
 - j) Laminated film is attached to the module surface to prevent it from being scratched. Peel the film off slowly just before the use with strict attention to electrostatic charges. Ionized air shall be blown over during the action. Blow off the 'dust' on the polarizer by using an ionized nitrogen gun, etc..

12. Reliability test items

	Test item	Conditions
No.		
1	High temperature storage test	$Ta = 60^{\circ}C \qquad 240h$
2	Low temperature storage test	$Ta = -20^{\circ}C \qquad 240h$
3	High temperature	$Ta = 50^{\circ}C$; 80 % RH 240h
	& high humidity operation test	
4	High temperature operation	$Ta = 60^{\circ}C \qquad 240h$
	test	
5	Low temperature operation test	$Ta = 0^{\circ}C \qquad 240h$

	UO
6	Wibnotion to

6	Vibration test (non-	Frequency: 10~500Hz, 1.0G, 20 min/each axis
	operating)	
7	Shock test	Gravity: 100G
	(non- operating)	Pulse width: 2ms, half sine wave
		Direction: ±X,±Y,±Z
		Once for each direction.

10. Display Quality

The display quality of the color TFT-LCD module shall be in compliance with the Incoming Inspection Standard.

11 · Handling Precautions

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 - b) Be sure to design the cabinet so that the module can be installed without any extra stress such as warp or twist.
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- d) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- e) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
 - f) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface. Handle with care.
 - g) Since CMOS LSI is used in this module, take care of static electricity and injure the human earth when handling.
 - h) Observe all other precautionary requirements in handling components.
 - i) This module has its circuitry PCBs on the rear side and should be handled carefully in order not to be stressed.
 - j) Laminated film is attached to the module surface to prevent it from being scratched. Peel the film off slowly just before the use with strict attention to electrostatic charges. Ionized air shall be blown over during the action. Blow off the 'dust' on the polarizer by using an ionized nitrogen gun, etc..

12. Reliability test items

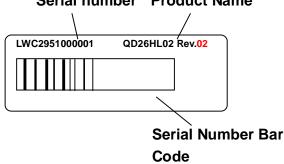
	Test item	Conditions
No.		
1	High temperature storage test	$Ta = 60^{\circ}C \qquad 240h$
2	Low temperature storage test	Ta =-20°C 240h

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3	High temperature	$Ta = 50^{\circ}C$; 80 %RH 240h		
	& high humidity operation test			
4	High temperature operation	$Ta = 60^{\circ}C \qquad 240h$		
	test			
5	Low temperature operation test	$Ta = 0^{\circ}C$ 240h		
6	Vibration test (non-	Frequency: $10\sim500$ Hz, 1.0 G, 20 min/each axis		
	operating)			
7	Shock test	Gravity: 100G		
	(non- operating)	Pulse width: 2ms, half sine wave		
		Direction: $\pm X, \pm Y, \pm Z$		
		Once for each direction.		

13 · Others

1) LCD Module Label: Serial number Product Name



LWC295100001 Digital code 4, 5 is Date code.

Digital 4 (Year) 1: 2001, 2: 2002, 3:2003,....

Digital 5 (Month) 1: Jan, 2: Feb,..., A:Oct, B:Nov., C: Dec.

- 2) Adjusting volume has been set optimally before shipment, so do not change any adjusted value. If adjusted value is changed, the specification may not be satisfied.
- 3) Disassembling the module can cause permanent damage and should be strictly avoided.
 - 4) Please be careful since image retention may occur when a fixed pattern is displayed for a long time.
 - 5) If any problem occurs in relation to the description of this specification, it shall be resolved through discussion with spirit of cooperation.



14. Drawing

