		的股份有限 ECTRONICS	
Mode APPR APPR	I NO. : VGG2 REVIS	ion For LCD I 7B-002-16) 43237-7UFLW NON : 1 CIFICATIONS ON CIFICATIONS AN	/A(L.F)
CUSTOMER : ST	D.	APPROVED BY :	
	VBEST LCM F	R&D CENTER	
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DIRECTOR	MANAGER		Electronic Engineer
動佳光電股份有限公司總公司 VBEST ELECTRONICS LTD. 台北縣中和市建一路 186 號 12 12F,NO.186, JIAN 1st RD., CH TAIPEI HSIEN, TAIWAN, R.O.O FEL: +886 2 8227-2788 FAX: +886 2 8227-2789 助佳光電股份有限公司台中分公 /BEST ELECTRONICS(T.C) L 合中縣潭子鄉台中加工出口區建 IO.19,CHIEN KUO ROAD.T.E. 27 TAICHUNG HSIEN TAIWAI FEL: +886 4 2532-8889 AX: +886 4 2532-6689	可 可 國路 19 號 PZ TANTZE N R.O.C	東莞莞城德寶電子廠 VBEST ELECTRONICS(B. 廣東省東莞市城區東縱大道 NO.9, Tian Bao Rd., Dong Zo Guang Dong. China. TEL: +86 769 220 5258 FAX: +86 769 220 7258 動佳光電(昆山)有限公司 VBEST ELECTRONICS(KU 江蘇省昆山市玉山鎮高科技) NO.8, Chengbei Rd., Hi-Tech Yushan Town, Kunshan City TEL: +86 512 5778 7288 FAX: +86 512 5777 0688	V.I)LTD. 天寶路9號 ong St.,Dong Guan City NSHAN) CO.,LTD. □業園城北路8號
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VGG243237-7UFLWA

PAGE

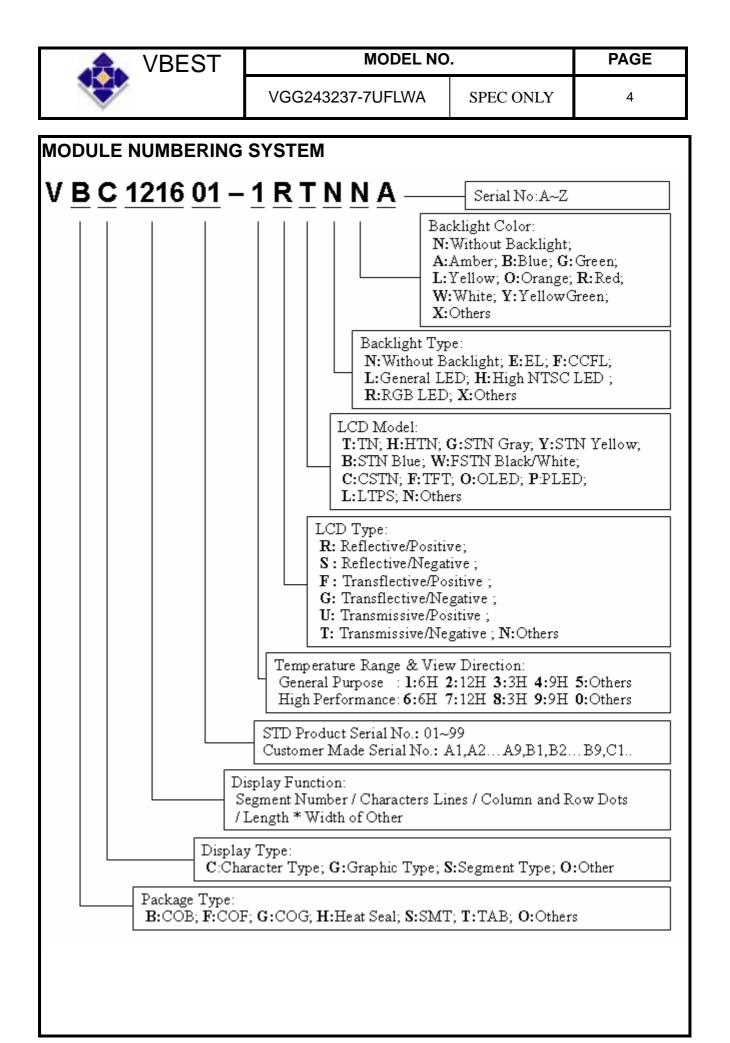
SPEC ONLY

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REV	COMMENT	PAGE	DATE
1	Initial Release	25	2007/04/25





ITEM	CONTENTS
Module Size	42.72 (W) * 91.16 (H) * 2.8 (T) mm
Display Size	2.4 inch
Display Format	240(RGB)* 320 Pixels
Active Area	36.72 (W) * 48.96 (H) mm
Pixel Pitch	0.153 * 0.153 mm
LCD Type	TFT (262K)/ Transmissive / Positive
View Angle	12 O'clock
Controller IC	IL19320
Backlight Driver type	External Power
DC to DC circuit	Build-In
Approx. Weight	(13.0g)

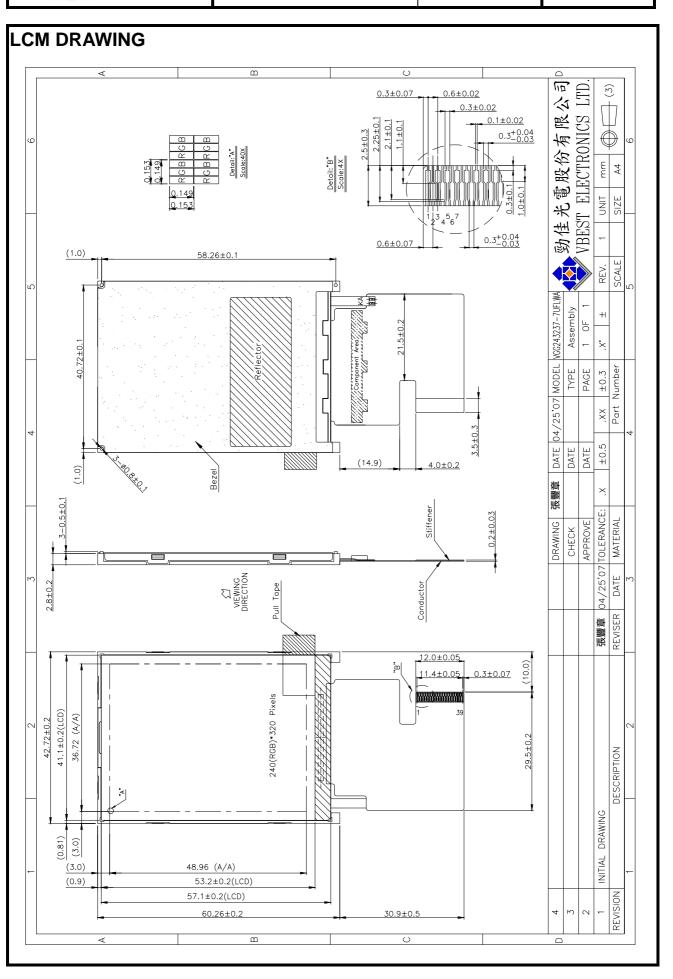


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VGG243237-7UFLWA

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Item	Symbol	Min.	Туре	Max.	Unit	Humidity
Supply Voltage	$V_{CC}$ - $V_{SS}$	-0.3	-	+4.0	Volt	-
Operating Temperature	Тор	-20	-	+70		Note1
Storage Temperature	Tst	-30	-	+80		Note2

Note1: Background color changes slightly depending on ambient temperature. This phenomenon is reversible.

Ta 70 : 75%RH max

Ta>70 : absolute humidity must be lower than the humidity of 75%RH at 70 Note2: Ta at -30 will be <48hrs, at 80 will be <120hrs

## ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25)

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply for Logic	IOVCC	-	-	2.8	-	Volt
Power Supply Current for LCM	I <sub>DD</sub>	IOVCC=2.8V	-	4.6	6.5	mA



MO	DEL	NO
		110.

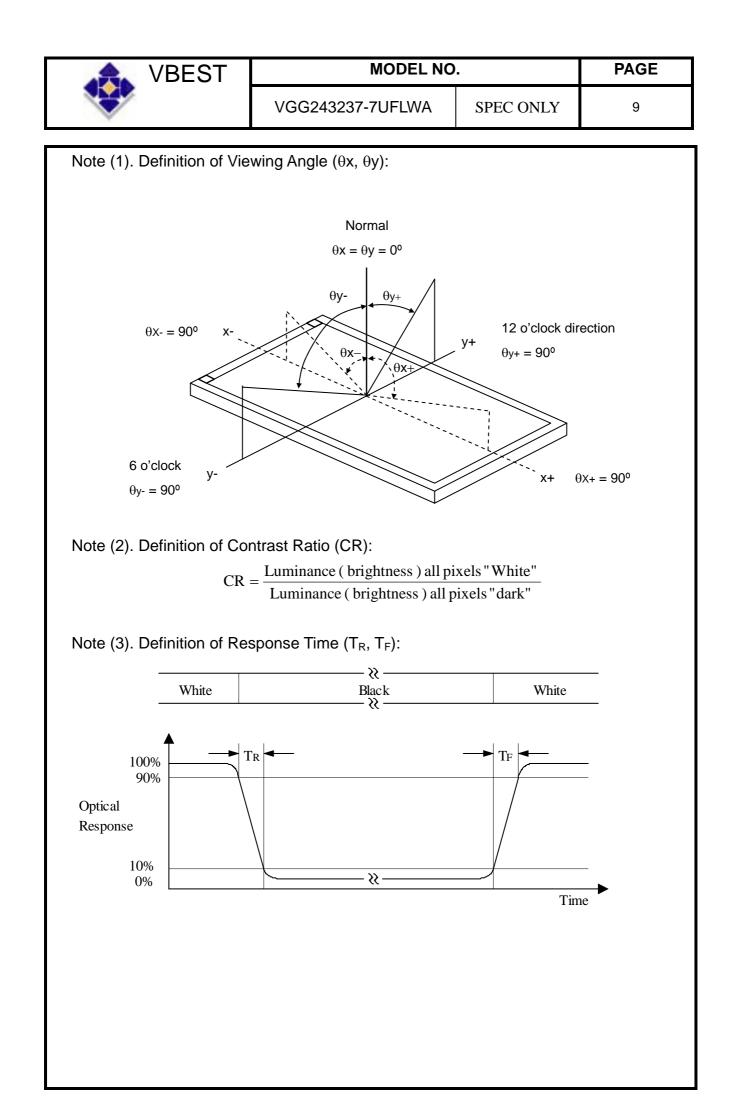
# OPTICAL CHARACTERISTICS

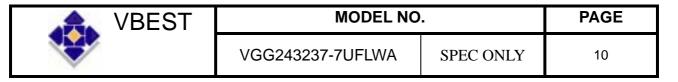
The optical characteristics should be measured in a dark environment ( 1 lux) or equivalent state with the methods shown in Note (4).

Iter	n	Symbol	Conditions	Min.	Тур.	Max.	Unit	Note
Contrast Ratio		CR	$\theta_x=0^\circ, \theta_Y=0^\circ$ Viewing Normal	-	300	-	-	(2)
Response Time		$T_{R+}T_{F}$	Angle	-	30	40	ms	(3)
	Horizontal	$\theta_{x}$ +	CR≥10	-	45	-		
Viewing		θ <b>x</b> -		-	45	-	Desires	
angle		θγ+		-	35	-	Degree	(1),(4)
	Vertical	θγ-		-	15	-		

## Color of CIE coordinate:

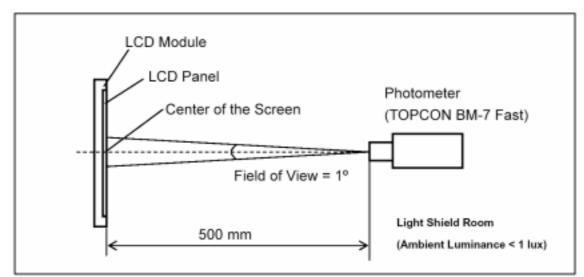
ltem		Symbo I	Condition	Min.	Тур.	Max.	Brightness
	<b>D</b> 1	X		0.58	0.63	0.68	30 cd/m <sup>2</sup>
	Red	у	$\Theta = \phi = 0^{\circ}$	0.29	0.34	0.39	
	Green - Blue	X	LED Backlight	0.29	0.34	0.39	
Chromaticity Coordinates		У	Color Degree X=0.30	0.56	0.61	0.66	115cd/m <sup>2</sup>
(Transmissive)		X	X=0.30 Y=0.30	0.09	0.14	0.19	<b>22</b> - 1/2
		у	Brightness	0.04	0.09	0.14	23 cd/m <sup>2</sup>
	<b>XX71-:4</b> -	X	$= 2300 \text{ cd/m}^2$	0.24	0.29	0.34	125 ad/m/?
	White	у	200000, M	0.29	0.34	0.39	135 cd/m <sup>2</sup>





## Note (4). Measurement Set-Up:

The LCD module should be stabilized at a given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a windless room.





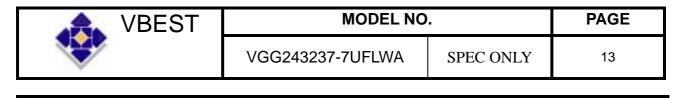
VBEST

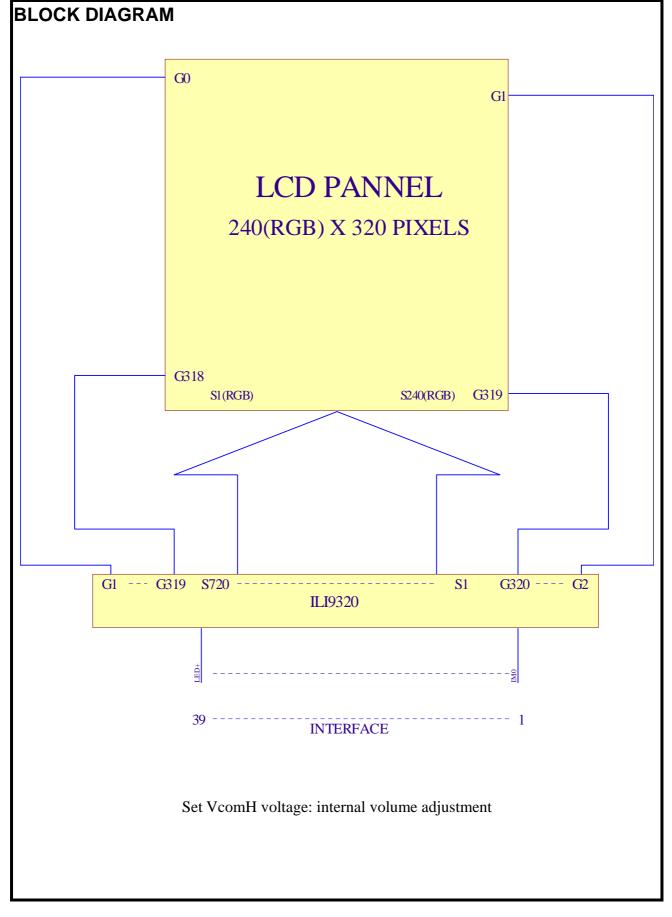
PAGE

No.	Symbol		Function								
		Select	the M	PU sv	stem i	nterface mode.					
4		IM3	IM2	IM1	IMO	MPU-Interface	DB Pin in use				
1	IMO	0	0	0	0	Setting invalid	-				
		0	0	0	1	Setting invalid	-				
		0	0	1	0	180-system 16-bit interface	DB[17:10],DB[8:1]				
2	IM1	0	0	1	1	180-system 8-bit interface	DB[17:10]				
		0	1	0	ID	Serial Peripheral interface(SPI)	SDI,SDO				
		0	0 1 1 * Setting invalid		-						
		1	0	0	0	Setting invalid	-				
3	IM2	1	0	0	1	Setting invalid	-				
•		1	0	1	0	180-system 18-bit interface	DB[17:0]				
		1 0 1 1 I80-system 9-bit interface				DB[17:9]					
		1	1 1 * * Setting invalid -								
4	IM3	IM3 When the serial peripheral interface is selected,IM0 pin is used for t									
		device	device code ID setting.								
		A reset pin.									
5	nRESET	Initializ	zes the	e IC wi	ith a l	ow input. Be sure to execute	e a power-on res				
		after s	upplyir	ng pow	/er.						
		Frame	e synch	ronizir	ng sigi	nal for RGB interface operation	on.				
6	VSYNC	VSPL	="0":A	ctive lo	w						
6	VSTINC	VSPL	="1"Ac	tive hi	gh						
		Fix to	DGND	level	when	not in use.					
			Line synchronizing signal for RGB interface operation.								
				Ŭ	HSPL="0"=Active low						
7	HSVNC	HSPL	="0"=A	ctive lo	w						
7	HSYNC	HSPL: HSPL:	="0"=A ="1":Ac	ctive lo ctive hi	ow gh						
7	HSYNC	HSPL: HSPL: Fix to	="0"=A ="1":Ao DGND	ctive lo ctive hi level v	ow gh when	not in use.					
7	HSYNC	HSPL: HSPL: Fix to Dot clo	="0"=A ="1":Ao DGND ock sig	ctive lo ctive hi level v nal for	ow gh when RGB	not in use. interface operation.	- 				
		HSPL: HSPL: Fix to Dot clo DPL =	="0"=A ="1":Ao DGND ock sig = "0": In	ctive lo ctive hi level v nal for put da	ow gh when RGB ta on	not in use. interface operation. the rising edge of DOTCLK	- 				
7 8	HSYNC DOTCLK	HSPL: HSPL: Fix to Dot clo DPL = DPL =	="0"=A ="1":Ao DGND ock sig = "0": In = "1": In	ctive hi level v nal for put da put da	gh when RGB ta on ta on	not in use. interface operation. the rising edge of DOTCLK the falling edge of DOTCLK	- -				
		HSPL: Fix to Dot clo DPL = DPL = Fix to	="0"=A ="1":Ac DGND ock sig = "0": In = "1": In DGND	ctive hi level nal for put da level	ow gh RGB ta on ta on when	not in use. interface operation. the rising edge of DOTCLK the falling edge of DOTCLK not in use.					
		HSPL: Fix to Dot clo DPL = DPL = Fix to Data E	="0"=A ="1":Ac DGND ock sig = "0": In = "1": In DGND ENEAE	ctive hi level v nal for put da level v LE sig	ow gh RGB ta on ta on when jnal fo	not in use. interface operation. the rising edge of DOTCLK the falling edge of DOTCLK not in use. r RGB interface operation.					
8	DOTCLK	HSPL: Fix to Dot clo DPL = DPL = Fix to Data E Low: \$	="0"=A ="1":Ac DGND ock sig = "0": In = "1": In DGND ENEAE Select(:	ctive hi level v nal for put da put da level v SLE sig	ow gh RGB ta on ta on when ynal fo s enab	not in use. interface operation. the rising edge of DOTCLK the falling edge of DOTCLK not in use. r RGB interface operation. oled)					
	DOTCLK	HSPL: Fix to Dot clo DPL = DPL = Fix to Data E Low: \$ High:	="0"=A ="1":Ac DGND ock sig = "0": In = "1": In DGND ENEAE Select( Not se	ctive hi level v nal for put da level v SLE sig access lect(ac	ow gh when RGB ta on ta on when jnal fo s enab cess i	not in use. interface operation. the rising edge of DOTCLK the falling edge of DOTCLK not in use. r RGB interface operation.					



10 ~ 27	DB17~D B0	An 18-bit parallel bi-directional data bus for MPU system interface mode. 8-bit I/F: DB [17:10] is used. 9-bit I/F: DB [17:9] is used. 16-bit I/F: DB [17:10] and DB [8:1] is used. 18-bit I/F: DB [17:0] is used. 18-bit parallel bi-directional data bus for RGB interface operation. 6-bit RGB I/F: DB [17:12] are used. 16-bit RGB I/F: DB[17:13] and DB[11:1] are used. 18-bit RGB I/F: DB[17:0] are used.
28	200	SPI interface output pin. The data is outputted on the falling edge of the SCL signal. Let SDO as open when not in use.
29	SDI	SPI interface input pin. The data is latched on the rising edge of the SCL signal. Fix to DGND level when not in use.
30	nRD	A read strobe signal and enables an operation to read out data when the signal is low. Fix to DGND level when not in use.
31		A write strobe signal and enables an operation to write data when the signal is low. Fix to DGND level when not in use. SPI Mode: Synchronizing clock signal in SPI mode.
32	RS	A register select signal. Low: select an index or status register High: select a control register Fix to DGND level when not in use.
33	nCS	A chip select signal. Low: the IC is selected and accessible High: the IC is not selected and not accessible Fix to the DGND level when not in use.
34	GND	Ground
35	IOVCC	Power supply voltage.
36~37	GND	Ground
38	LED-	LED Cathode
39	LED+	LED Anode







MODEL NO.	
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## BACKLIGHT

1. Standard Lamp Styles (Edge Lighting Type):

The LED chips are distributed over the edge light area of the illumination unit, which gives the less power consumption:

 The Main Advantages of the LED Backlight are as Following:
 The brightness of the backlight can simply be adjusted. By a resistor or a potentiometer.

### 3. Data About LED Backlight:

PARAMETER	Sym.	Min.	Тур.	Max.	Unit	Test Condition	Note
Supply Current	I	-	20	-	mA	V=13.2V	
Supply Voltage	V	-	13.2	-	V	lf=20mA	
Reverse Voltage	VR	-	-	5	V	lf=20mA	
Luminous Intensity for LCM	lv	-	135	-	Cd/m <sup>2</sup>	lf=20mA	2
Uniformity for LCM	-	-	80	-	%	lf=20mA	3
Life Time	-	50000	-	-	Hr.	V 13.2V	4
Color		White					

NOTE:

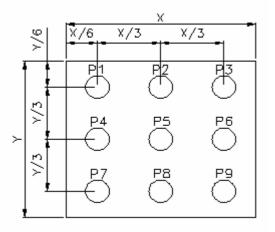
- 1. Backlight Only
- 2. Average Luminous Intensity of P1-P9
- 3. Uniformity = Min/Max \* 100%

4.LED life time defined as follows: The final brightness is at 50% of original brightness

### Measured Method: (X\*Y: Light Area)

### Internal Circuit Diagram

 $A \circ \rightarrow \rightarrow$ 



(Effective spatial Distribution) Hole Diameterø3mm ; 1 to 9 per Position Measured Luminous



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RELIABILITY
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	Environmental Test						
NO.	Test Item	Test Condition	Test Time	Note			
1	Low temperature storage	-30±2	240H	-			
2	High temperature storage	80±2	240H	-			
3	Low temperature operation	-20±2	240H	-			
4	High temperature operation	70±2	240H	-			
5	High temperature/ Humidity storage	60±2 90%±5%RH	240H	Without dewing			
6	Thermal shock storage	-30 (30mim) 25 (5min) +80 (30min)	10 cycles	-			

# Mechanical Test

NO.	Test Item	Test Condition	Note
1	V/ibrotion toot	Sweep for 1 min at 10Hz , 55Hz , 10Hz , amplitude 1.5mm 15 minutes each in the X , Y and Z directions(Total 45 minutes)	Non operation state
2	Drop test	One angle, three edges and six sides. 75cm above the ground(no weight difference)	Non operation state

# LIFE TIME

Item	Description
	Functions, Performance, appearance, etc. shall be free from remarkable deterioration
1.	within 50,000 hours under ordinary operating and storage conditions room temperature
	(25±10°C), normal humidity(45±20%RH), and in area not exposed to direct sun light.





#### MODEL NO.

#### SPECIFICATION OF QUALITY ASSURANCE 1.1 Purpose This standard for quality assurance should affirm the quality of LCD (Purchaser) by VBEST ELECTRONIC LTD. (Supplier) module products to supply to **1.2 Standard for Quality Test** 1.2.1Test method: According to MIL-STD-105E, General Inspection Level II take a single time. 1.2.2Electronic Assemblies Standard is according to IPC-AA610 REV. C . CLASS 2 1.2.3The defects classify of AQL as following list. **Inspect item Nonconforming status** Classify AQL Remark (1)Non-Display (2)Occur high current 1.Display (3) Segment missing Product no AQL=0.65 damage function Critical (4) LCD with wrong viewing defect direction (5) Back light unlighted (1) PCB and bezel out 2.Dimension AQL=0.65 Can not assembly not correct of specification (1) Display scanned Disorder 1.Display (2) display defect Major defect AQL=1.0 (1) Flash, duct 2.Back-light (2) Wong color (1)Dust(Black spot, white spot) (2) Polarizer scratch (3) Reflective polarizer with bubble Appearance Minor defect 1.LCD (4) Display segment AQL=2.50 defect transfigure (5) Color out of the range of sample color Total AQL=2.50



.3 NONCONFORMING ANALYSIS & DEAL WITH MANNERS
1.3.1 Nonconforming analysis:
• Purchaser should supply the detail data of non-conforming sample and
the improper state.
• After accepting the detail data from purchaser, the analysis of
Nonconforming should be finished in two weeks.
· If supplier cannot finish analysis on time, must announce purchaser.
1.3.2 Disposition of nonconforming:
$\cdot$ If the customer will find any defected product during assembly time ,
supplier will replace the good product for every defect after.
· Both supplier and customer should analysis the reason and discuss
the disposition of nonconforming when the reason of nonconforming
is not sure.
.4 Agreement items
Both sides should discuss together when the following problems happen.
1.4.1 There is any problem of standard of quality assurance, and both sides
Think that must be modified.
1.4.2 There is any argument item which does not recorded in the standard of
quality assurance.
1.4.3 Any other special problem.

A VBEST	MODEL NO	).	PAGE
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andard of the product a 5.1 Manner of appearance · The test must be under distance of view must	e test 20W×2 or 40W fluorescent lig	ht, and the	
• When test the model of reflective plate.	f transmissive product must add	l the	
• The test direction is ba	se on about 45° of vertical line.		
	eyes		
45	45		
	on of area : viewing area		
	out of viewing area(outside view	wing area)	



Name:LCM	Inspection Specification							
Scope	LCM							
Item	Criterion							
1.Electronic	(1)Display scanned must be complete.							
	(2)Can not i	(2)Can not non-display						
	(3)The cons	sumer curre	ent can	not ov	er the spec	cificatio	n	
	(4)Test resu	ilt as the fo	llowing	g must	be reject:			
	1.Display	y incomple	te					
	2.Occur	high currer	nt					
	3.Displa	y defect						
2.Black spot , white	(1)Round ty	pe : As fol	llowing	, drawii	ng			
spot , dust in LCD	Ψ=(X+Y	() / 2						
		Size		Accept		ble QTY		
		Area			А		3	
		Ψ<0.1		Accep	ccep no dense		ept	
		0.1<Ψ<0.2			2	N	0	
		0.2<Ψ<			1	Der	nse	
		0.25<Ψ			0			
	(2)Line type : (As following drawing)							
		Length Wid		idth		Acce	ptable	
		Area		А			В	
	×	Accept 0.02		$2 \ge L$	L Accept no		Acce	pt
				S≧L	L 2		No	,
	- L -	2.5≥L 0.05		5≧L 2		Dense		
			0.05≧L		As round type			
		Total acce	ptable	Q'TY (	(1) + (2) :	≦ 3		



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VGG243237-7UFLWA

SPEC ONLY

Name:LCM	Inspection Specification						
Scope	LCM						
Item	Criterion						
3.Segmenter	c.Alignment layer defect :						
transfigure(Digit,	Ψ=(a+b) / 2						
word , sign)							
	Size ¥	Acceptable Q'TY					
	$\Psi \leq 0.4$	Accept no dense					
	$0.4 < \Psi \le 1.0$	5					
	$1.0 < \Psi \leq 1.5$	3					
	$1.5 < \Psi \leq 2.0$						
	Total acceptable Q'TY	7					
4.Color	Sample of the lowest acceptable	le quality level.					
5.Back-light	(1)The color of backlight shou	ld correspond its specification.					
	(2)Not allow flash and unlighted	en on backlight.					
	(3)Not allow larger than 0.25mm dust on backlight.						
6.COB	(1)Not allow the PAD of wire bond exposed.						
	(2)Not allow the line type of wire bond on resin.						
	<ul><li>(2)Not allow the line type of wire bond on resin.</li><li>(3)Not allow bubble and dust on resin.</li></ul>						



MODEL NO.	
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Name:LCM	Inspection Specification	
Scope	LCM	-
Item	Criterion	-
7.PCB	(1)Not allow dirty and reminded solder on PCB.	
	(2)Not allow scratch on pin PAD.	



Name:LCM	Inspection Specification				
Scope	LCM				
Item	Criterion				
1.Polarizer scratch	Following the dust specification of time type.				
2.Polarizer ripple	Not allow get in side Viewing Area .				
3.Polarizer bubble	(1)Bubble could be seen by eyes exigently to be judged				
	According to black spot specification.				
	(2)Not allow polarize jutting glass outside.				
	Size		Acceptable Q'TY		
	Area		Α	В	
	Ψ<0.2		Accept no dense	Accept	
	0.2<Ψ<0.5		3	No	
	0.5<Ψ<1.0		2	Dense	
	1.0<Ψ		0		
	Total acceptable Q'	TY	3		
transfigure(Digit, word , sign)	a. Segment display:		Acc	ceptable	
	X X X	W≦0.4		nd $\Psi \leq 1/2w$	
	- AND	W≥0.	4 Ψ ≤0.25 a	$\Psi\!\leq\!0.25$ and $\Psi\!\leq\!1/3v$	
	Note: W : Segment width $\Psi$ : (AB)/2 Only allow one defect in one segment. $\Psi$ under 0.10mm is acceptable.				
	Ψ under 0.10mm is ac	ceptable.			



Name:LCM	Inspection Specification			
Scope	LCM			
Item	Criterion			
<ol> <li>Segmenter transfigure(Digit, word, sign)</li> </ol>	b.dot Matrix display:			
	Size	Acceptable QTY		
	a, b $\leq 0.1$	Accept no dense		
	$(a + b) / 2 \leq 0.1$	Accept no dense		
	$0.5 < \Psi < 1.0$	3		
	Total acceptable Q'TY	7		
	<ul> <li>(2)a.Segment are not same wid</li> <li>b.Segment are not equal no I production specification.</li> </ul>	th $a \ge b$ $a / b \le 4 / 3$ a < b $a / b > 4 / 3length and size within ±15% of$		



## HANDLING PRECAUTION

1.Mounting Method

The panel of the LCD Module consists of two thin glass plates with polarizes which easily get damaged since the Module is fixed by utilizing fitting holes in the printed circuit board. Extreme care should be taken when handling the LCD Modules.

2.Caution of LCD handling & cleaning

When cleaning the display surface, use soft cloth with solvent (recommended below) and Wipe lightly.

-Isopropyl alcohol

-Ethyl alcohol

-Trichlorotriflorothane

Do not wipe the display surface with dry or hard materials that will damage the polarize surface. Do not use the following solvent :

-Water

-Aromatics

3.Caution against static charge

The LCD Module use C-MOSLSI drivers, so we recommend end that you connect any unused input terminal to VDD or VSS, do not input any signals before power is turned on.

And ground your body, Work/assembly table. And assembly equipment to protect against static electricity.

4.Packaging

-Modules use LCD elements, and must be treated as such. Avoid in tense shock and falls from a height.

-To prevent modules from degradation. Do not operate or store them exposed directly to sunshine or high temperature/humidity.

5. Caution for operation

-It is indispensable to drive LCD's with in the specified voltage limit since the higher voltage than the limit shorten LCD life.

An electrochemical reaction due to direct current causes LCD deterioration, Avoid the use of -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 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.

- If the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.

- A slight dew depositing on terminals is a cause for electro-chemical reaction resulting in terminal open circuit.

Usage under the relative condition of 40 , 50% RH or less is required.



#### 6. Storage

In the case of storing for a long period of time (for instance. For years) for the purpose or replacement use, The following ways are recommended.

- Storage in a polyethylene bag with sealed so as not to enter fresh air outside in it, And with no desiccant.
- Placing in a dark place where neither exposure to direct sunlight nor light is. Keeping temperature in
- the specified storage temperature range.
- Storing with no touch on polarizer surface by the anything else. (It is recommended to store them as they have been contained in the inner container at the time of delivery)

#### 7. Safety

It is recommendable to crash damaged or unnecessary LCD into pieces and wash off liquid crystal by using solvents such as acetone and ethanol. Which should be burned up later.

When any liquid crystal leaked out of a damaged glass cell comes in contact with your hands, please wash it off well with soap and water.

#### 8. TERMS OF WARRANT

1.Acceptance inspection period

The period is within one month after the arrival of contracted commodity at the buyer's factory site.

2.Applicable warrant period

The period is within twelve months since the date of shipping out under normal using and storage conditions.



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INTERNAL BOX(S01)

EXTERNAL BOX(L02)

PRODUCT

VGG243237-7UFLWA

PACKING METHOD Packing Method CUSTOMER : STD. MODEL : VGG243237-7UFLWA ~?~ ŀ ŀ ſl, 到佳光電股份有限公司 · VBEST ELECTRONICS LTD. \*5 ŀ 11 PARTS LIST ITEM SIZE(LxWxH) unit:mm MATERIAL Q.T.Y NOTE 1 TRAY 372.0x262.0x11.9 PS 30 2 CARD BOARD(P02) 945.0x275.0x3.5 CARTON 2 3 816.0x375.0x3.5 CARTON 2 CARD BOARD(P01) 4 CARD BOARD(P03) 375.0x265.0x3.5 CARTON 4

400.0x290.0x150.0

600.0x420.0x170.0

42.72x91.16x2.8

CARTON

CARTON

2

1

336