



OLED SPECIFICATION

Model No:

RET025664BGPP3N00000

CUSTOMER:

APPROVED BY	
PCB VERSION	
DATE	

FOR CUSTOMER USE ONLY

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY

Release DATE:



1. Revision History

VERSION	DATE	REVISED PAGE NO.	Note
0	2014/04/30		First release
Α	2014/05/04		Modify ICC
В	2014/06/16		Add Low Temperature
			storage.
С	2015/12/22		Modify Life Time
D	2016/06/01		Modify Static
			electricity test



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1.General Specification

The Features is described as follow:

■ Module dimension: 88.0 × 27.8 × 2.05 mm

■ Active area: 76.778×19.178 mm

■ Dot Matrix : 256 x 64

■ Dot Size: 0.278×0.278 mm

■ Dot Pitch: 0.3×0.3mm

■ Display Mode: Passive Matrix

■ Duty: 1/64

■ Display Color: Green

■ IC: SSD1322



2.Module Coding System

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	Е	Т	025664	В	G	Р	Р	3	N	0	0	0	00

1	Brand: Raystar Optronics Inc.					
2	E: OLED					
3	Display Type : C→C	Character, G→Graph	ic , T→TAB ,X→COG	, H→COG (with Frame)		
4	Dot Matrix: 256*64	4				
5	Series					
		A: Amber	R : Red	C : Full Color		
	Fraittin a Color	B: Blue	W: White			
6	Emitting Color	G: Green	Y: Yellow			
		S: Sky Blue	X : Dual Color			
7	Polarizer	P: With Polarizer;	N: Without Polarizer			
/	Polarizer	A: Anti-glare Pola	rizer			
8	Display Mode	P: Passive Matrix	; N : Active Matrix			
9	Driver Voltage	3:3.0~3.3V ; 5	5:5.0V			
10	Touch Panel	N: Without touch	panel; T: With touch par	nel		
11	Product type	0 : Standard 1 : Sunlight Reada 2 : Transparent Ol 3 : Flexible OLED 4 : OLED Lighting	LED (TOLED)			
12	Inspection Grade	0 : Standard 2 : B grade C : Automotive grad Y : Consumer grad				
13	Interface	0 : Default ; F : FPC ; H : Hot bar ; D : Demo Kit				
14	Serial No.	Serial number(00~	Serial number(00~ZZ)			

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3.Interface Pin Function

Pin Number	Symbol	I/O	Function
Power Sup	oply	1	
26	VCI	Р	Power Supply for Operation This is a voltage supply pin. It must be connected to external source & always be equal to or higher than VDD & VDDIO.
25	VDD	P	Power Supply for Core Logic Circuit This is a voltage supply pin. It can be supplied externally (within the range of 2.4~2.6V) or regulated internally from VCI. A capacitor should be connected between this pin & VSS under all circumstances.
24	VDDIO	P	Power Supply for I/O Pin This pin is a power supply pin of I/O buffer. It should be connected to VDD or external source. All I/O signal should have VIH reference to VDDIO. When I/O signal pins (BS0~BS1, D0~D7, control signals) pull high, they should be connected to VDDIO.
2	VSS	Р	Ground of Logic Circuit This is a ground pin. It also acts as a reference for the logic pins. It must be connected to external ground.
3,29	VCC	P	Power Supply for OLED Panel These are the most positive voltage supply pin of the chip. They must be connected to external source.
5,28	VLSS	Р	Ground of Analog Circuit These are the analog ground pins. They should be connected to VSS externally.
Driver			
22	IREF		Current Reference for Brightness Adjustment This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 10uA.
4	VCOMH	Р	Voltage Output High Level for COM Signal This pin is the input pin for the voltage output high level for COM signals. A tantalum capacitor should be connected between this pin and VSS.
27	VSL	Р	Voltage Output Low Level for SEG Signal This is segment voltage reference pin. When external VSL is not used, this pin should be left open. When external VSL is used, this pin should connect with resistor and diode to ground.



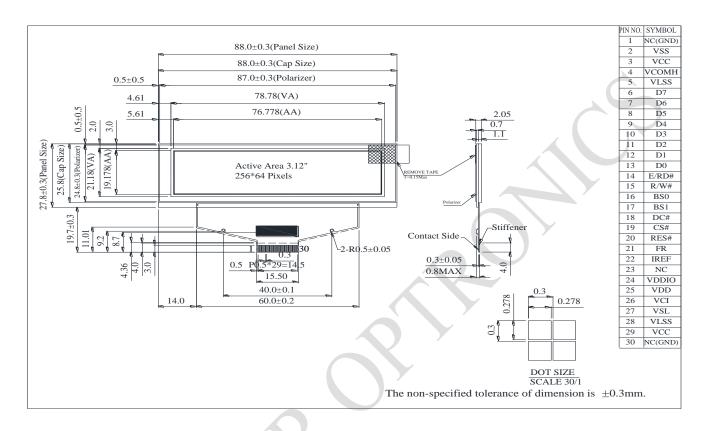
Testing Pad	S								
21	FR	0	Frame Frequency Triggering Signal This pin will send out a signal that could be used to identify the						
			This pin will send out a signal that could be used to identify the						
			driver status. Nothing should be connected to this pin. It should						
			be left open individually.						
16	BS0		Communicating Protocol Select						
17	BS1		These pins are MCU interface selec	tion input.	See the fol	lowing			
			table:						
				BS0	BS1				
			3-wire SPI	1	0				
			4-wire SPI	0	0				
			8-bit 68XX Parallel	1	1				
			8-bit 80XX Parallel	0	1				
20	RES#	l I	Power Reset for Controller and D						
20	IXLO#	'	This pin is reset signal input. When	-	low initializ	ation			
			of the chip is executed.	по риго	iov, iiiidanz	ation			
19	CS#	1	Chip Select						
			This pin is the chip select input. The	e chip is er	nabled for N	//CU			
			communication only when CS# is p	•					
18	D/C#	ı	Data/Command Control						
			This pin is Data/Command control p	oin. When	the pin is p	ulled			
			high, the input at D7~D0 is treated	as display	data.				
			When the pin is pulled low, the inpu	it at D7~D	0 will be				
			transferred to the command registe	r. For deta	il relationsh	nip to			
			MCU interface signals, please refer	to the					
			Timing Characteristics Diagrams.						
14	E/RD#		Read/Write Enable or Read						
			This pin is MCU interface input. Wh						
			68XX-series microprocessor, this p						
			Enable (E) signal. Read/write opera		lated when	tnis			
			pin is pulled high and the CS# is pu		this sis so	ooi voo			
4			When connecting to an 80XX-micro the Read (RD#) signal. Data read of		7 9 9				
			` , 5		s milialed w	nen			
			this pin is pulled low and CS# is pulled When serial mode is selected, this		e connecte	d to			
			VSS.	piirinusi b	e connecte	u io			
15	R/W#	1	Read/Write Select or Write						
13	10,00	' (This pin is MCU interface input. Wh	en interfac	cing to a				
			68XX-series microprocessor, this pi		•				
			Read/Write (R/W#) selection input.			for			
			read mode and pull it to "Low" for w			3			
			When 80XX interface mode is select			e			
			Write (WR#) input. Data write opera			- 0			
			pin is pulled low and the CS# is pul	/ TANK AND THE A)	- 0			
			When serial mode is selected, this		e connecte	d to			
1	<u> </u>	1		TVA U					



			VSS.
6~13	D7~D0	I/O	Host Data Input/Output Bus
			These pins are 8-bit bi-directional data bus to be connected to
			the microprocessor's data bus. When serial mode is selected,
			D1 will be the serial data input SDIN and D0 will be the serial
			clock input SCLK.
			Unused pins must be connected to VSS except for D2 in serial
			mode.
Reserve			
23	N.C.	-	Reserved Pin
			The N.C. pin between function pins are reserved for compatible
			and flexible design.
1,30	N.C.	-	Reserved Pin (Supporting Pin)
	(GND)		The supporting pins can reduce the influences from stresses
			on the function pins. These pins must be connected to external
			ground.



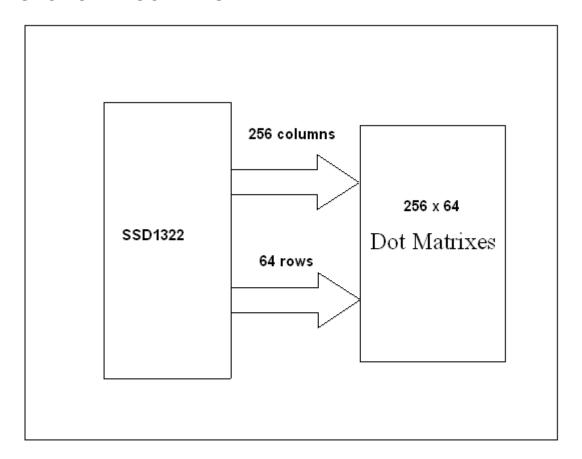
4. Counter Drawing & Block Diagram







FUNCTION BLOCK DIAGRAM



^{*}For more information, please refer to Application Note provided by Raystar Optronics.





5. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Operation	VCI	-0.3	4	V	1, 2
Supply Voltage for Logic	VDD	-0.5	2.75	V	1, 2
Supply Voltage for I/O Pins	VDDIO	-0.5	VCI	V	1, 2
Supply Voltage for Display	VCC	-0.5	20	V	1, 2
Operating Temperature	TOP	-40	80	°C	-
Storage Temperature	TSTG	-40	80	°C	-

Note 1: All the above voltages are on the basis of "VSS = 0V".

Note 2: When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 6 "Electrical Characteristics". If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate

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6.Electrical Characteristics

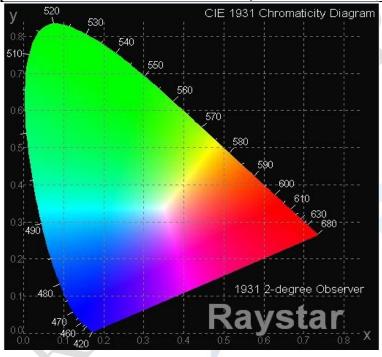
Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD	_	2.8	3.0	3.3	V
Supply Voltage for Display	VCC	_	14	14.5	15	V
High Level Input	VIH	_	$0.8 \times V_{DD}$	_	V_{DDIO}	V
Low Level Input	VIL	_	0	- 4	0.2×V _{DD}	V
High Level Output	VOH	_	0.9×V _{DD}	-	V_{DDIO}	V
Low Level Input	VOL	_	0		0.1×V _{DD}	V
50% Check Board operatir Current	VCC =14.5V	23	25	32	mA	





7. Optical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
View Angle	(V)θ	_	160	_		deg
View / uigie	(Η)φ	_	160	_		deg
Contrast Ratio	CR	Dark	2000:1	えし	-)`	
Response Time	T rise	_	_	10		μs
Treeponee rime	T fall	_	-	10	_	μs
Display with 50% check	Board Brig	htness	100	120	_	cd/m2
CIEx(Green)		(CIE1931)	0.24	0.28	0.32	_
CIEy(Green)		(CIE1931)	0.59	0.63	0.67	_





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8.OLED Lifetime

ITEM	Conditions	Min	Тур	Remark
Operating Life Time	Ta=25°C / Initial 50% check board brightness Typical Value	40,000 Hrs	-	Note

Notes:

- 1. Life time is defined the amount of time when the luminance has decayed to <50% of the initial value.
- 2. This analysis method uses life data obtained under accelerated conditions to extrapolate an estimated probability density function (*pdf*) for the product under normal use conditions.
- 3. Screen saving mode will extend OLED lifetime.





9.Reliability

Content of Reliability Test

Environmenta	Environmental Test			
Test Item	Content of Test	Test Condition	Applicable Standard	
High Temperature storage	Endurance test applying the high storage temperature for a long time.	80℃ 240hrs	-,(
Low Temperature storage	Endurance test applying the low storage temperature for a long time.	-40℃ 240hrs	4	
High Temperature Operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	80℃ 240hrs	7	
Low Temperature Operation	Endurance test applying the electric stress under low temperature for a long time.	-40℃ 240hrs	_	
High Temperature/ Humidity Storage	Endurance test applying the high temperature and high humidity storage for a long time.	60℃,90%RH 240hrs		
Temperature Cycle	Endurance test applying the low and high temperature cycle. -40°C 25°C 80°C 30min 5min 30min 1 cycle	-40℃/80℃ 100 cycles		
Mechanical Tes	st			
Vibration test	Endurance test applying the vibration during transportation and using.	10~22Hz→1.5mmp-p 22~500Hz→1.5G Total 0.5hr	5	
Shock test	Constructional and mechanical endurance test applying the shock during transportation.	50G Half sin wave 11 ms 3 times of each direction	-0	
Atmospheric pressure test	Endurance test applying the atmospheric pressure during transportation by air.	115mbar 40hrs		
Others	100			
Static electricity test	Endurance test applying the electric stress to the terminal.	VS=±600V(contact), ±800v(air), RS=330Ω CS=150pF 10 times	1300	



Test and measurement conditions

- 1. All measurements shall not be started until the specimens attain to temperature stability. After the completion of the described reliability test, the samples were left at room temperature for 2 hrs prior to conducting the failure test at 23±5°C; 55±15% RH.
- 2. All-pixels-on is used as operation test pattern.
- 3. The degradation of Polarizer are ignored for High Temperature storage, High Temperature/ Humidity Storage, Temperature Cycle

Evaluation criteria

- 1. The function test is OK.
- 2. No observable defects.
- 3. Luminance: > 50% of initial value.
- 4. Current consumption: within ± 50% of initial value.

APPENDIX:

RESIDUE IMAGE

Because the pixels are lighted in different time, the luminance of active pixels may reduce or differ from inactive pixels. Therefore, the residue image will occur. To avoid the residue image, every pixel needs to be lighted up uniformly.



10.Inspection specification

NO	Item	Criterion				AQL
01	Electrical	1.1 Missing vert	ical, horizo	ntal segment, seg	ment contrast	
	Testing	defect.				
		1.2 Missing char		or icon.		_
		1.3 Display malf				
		1.4 No function				0.65
				exceeds product s	pecifications.	
		1.6 OLED viewir 1.7 Mixed produ		erect.		
		1.8 Contrast def	, , , , , , , , , , , , , , , , , , ,			
		1.0 001111431 401	COL.			
02	Black or	2.1 White and b	lack spots	on display ≦0.25	mm, no more than	
	white	three white or bl				
	spots on		ced: No m	ore than two spot	s or lines within	2.5
	OLED	3mm.				2.0
	(display					
03	only) OLED	3.1 Round type	· Ac			
03	black	following drawin		SIZE	Acceptable Q	
	spots,	$\Phi = (x + y) / 2$	9	O.Z.L	TY	
	white	x ,		Ф≦0.10	Accept no	
	spots,	→→``₩─-↓			dense	
	contamina		v)	0.10<	2	2.5
	tion	7		Ф≦0.20		
	(non-displ			0.20 <	1	
	ay)			Ф≦0.25		
			/	0.25<Ф	0	
		3.2 Line type: (/	As followin	g drawing)		0
		(Length	Width	Acceptable Q TY	
		$\sim 1 \frac{w}{w}$	71	W≦0.02	Accept no dense	0.5
		->ı _{I.} I←	L≦3.0	0.02 <w≦0.03< td=""><td>2</td><td>2.5</td></w≦0.03<>	2	2.5
			L≦2.5	0.03 <w≦0.05< td=""><td></td><td></td></w≦0.05<>		
				0.05 <w< td=""><td>As round type</td><td></td></w<>	As round type	
04	Polarizer	100				
	bubbles	If bubbles are vi	•	Size Φ	Acceptable Q TY	
	7	judge using blac	•	Ф≦0.20	Accept no dense	
		specifications, n		0.20<Φ≦0.50	3	2.5
		to find, must che specify direction		0.50<Φ≦1.00	2	06
		Specify unection		1.00<Ф	0	
				Total Q TY	3 / 000	



NO	Item	Criterion			AQL
05	Scratches	Follow NO.3 OLED b	lack spots, white spot	ts, contamination	
		k: Seal width t L: Electrode pad leng			
		6.1 General glass chi 6.1.1 Chip on panel s	-	ween panels:	
		z: Chip thickness	y: Chip width	x: Chip length	
06	Chipped	Z≦1/2t	Not over viewing area	x≦1/8a	2.5
	glass	1/2t < z ≤ 2t	Not exceed 1/3k	x≦1/8a	
		⊙ If there are 2 or mo	ore chips, x is total len	ngth of each chip.	
	4	z: Chip thickness	y: Chip width	x: Chip length	
		Z≦1/2t	Not over viewing area	x≤1/8a	20
		1/2t < z ≦ 2t	Not exceed 1/3k	x≦1/8a	
		⊙If there are 2 or mo	ore chips, x is the tota	I length of each chip.	



$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
k: Seal width t: Glass thickness a: OLED side length L: Electrode pad length 6.2 Protrusion over terminal : 6.2.1 Chip on electrode pad :
L: Electrode pad length 6.2 Protrusion over terminal : 6.2.1 Chip on electrode pad :
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
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$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$
·
6.2.2 Non-conductive portion.
06 Glass 2.5
crack 2.5
X
y: Chip width x: Chip length z: Chip thickness
$y \le L$ $x \le 1/8a$ $0 < z \le t$
\bigcirc If the chipped area touches the ITO terminal, over 2/3 of the ITO
must remain and be inspected according to electrode terminal
specifications.
olf the product will be heat sealed by the customer, the alignment
mark not be damaged.
6.2.3 Substrate protuberance and internal crack.
X
$\begin{array}{c cccc} y: width & x: length \\ \hline y \le 1/3L & x \le a \end{array}$
$y \le 1/3L$ $x \le a$
y y



NO	Item	Criterion	AQL
07	Cracked glass	The OLED with extensive crack is not acceptable.	2.5
08	Backlight elements	 8.1 Illumination source flickers when lit. 8.2 Spots or scratched that appear when lit must be judged. Using OLED spot, lines and contamination standards. 8.3 Backlight doesn't light or color wrong. 	0.65 2.5 0.65
09	Bezel	9.1 Bezel may not have rust, be deformed or have fingerprints, stains or other contamination.9.2 Bezel must comply with job specifications.	2.5 0.65
10	PCB、COB	 10.1 COB seal may not have pinholes larger than 0.2mm or contamination. 10.2 COB seal surface may not have pinholes through to the IC. 10.3 The height of the COB should not exceed the height indicated in the assembly diagram. 10.4 There may not be more than 2mm of sealant outside the seal area on the PCB. And there should be no more than three places. 10.5 No oxidation or contamination PCB terminals. 10.6 Parts on PCB must be the same as on the production characteristic chart. There should be no wrong parts, missing parts or excess parts. 10.7 The jumper on the PCB should conform to the product characteristic chart. 10.8 If solder gets on bezel tab pads, OLED pad, zebra pad or screw hold pad, make sure it is smoothed down. 	2.5 2.5 0.65 2.5 2.5 0.65 2.5
11	Soldering	 11.1 No un-melted solder paste may be present on the PCB. 11.2 No cold solder joints, missing solder connections, oxidation or icicle. 11.3 No residue or solder balls on PCB. 11.4 No short circuits in components on PCB. 	2.5 2.5 2.5 0.65



NO	Item	Criterion	AQL
NO 12	General appearance	 12.1 No oxidation, contamination, curves or, bends on interface Pin (OLB) of TCP. 12.2 No cracks on interface pin (OLB) of TCP. 12.3 No contamination, solder residue or solder balls on product. 12.4 The IC on the TCP may not be damaged, circuits. 12.5 The uppermost edge of the protective strip on the interface pin must be present or look as if it cause the interface pin to sever. 12.6 The residual rosin or tin oil of soldering (component or 	AQL 2.5 0.65 2.5 2.5 2.5 2.5
	арростанос	chip component) is not burned into brown or black color. 12.7 Sealant on top of the ITO circuit has not hardened. 12.8 Pin type must match type in specification sheet. 12.9 OLED pin loose or missing pins. 12.10 Product packaging must the same as specified on packaging specification sheet. 12.11 Product dimension and structure must conform to product specification sheet.	0.65 0.65 0.65 0.65



Check Item	Classification	Criteria
No Display	Major	
Missing Line	Major	
Pixel Short	Major	
Darker Short	Major	
Wrong Display	Major	
Un-uniform B/A x 100% < 70% A/C x 100% < 70%	Major	A Normal B Dark Fixel C Light Fixel



11.Precautions in use of OLED Modules

- (1) Avoid applying excessive shocks to module or making any alterations or modifications to it.
- (2) Don't make extra holes on the printed circuit board, modify its shape or change the components of OLED display module.
- (3) Don't disassemble the OLED display module.
- (4) Don't operate it above the absolute maximum rating.
- (5) Don't drop, bend or twist OLED display module.
- (6) Soldering: only to the I/O terminals.
- (7) Storage: please storage in anti-static electricity container and clean environment.
- (8) It's pretty common to use "Screen Saver" to extend the lifetime and Don't use fix information for long time in real application.
- (9) Don't use fixed information in OLED panel for long time, that will extend "screen burn" effect time..
- (10) Raystar has the right to change the passive components, including R2and R3 adjust resistors. (Resistors, capacitors and other passive components will have different appearance and color caused by the different supplier.)
- (11) Raystar have the right to change the PCB Rev. (In order to satisfy the supplying stability, management optimization and the best product performance...etc, under the premise of not affecting the electrical characteristics and external dimensions, Raystar have the right to modify the version.)

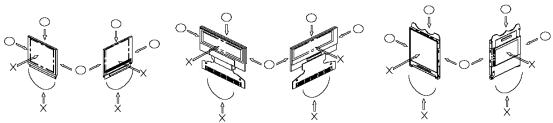
11.1 Handling Precautions

- (1) Since the display panel is being made of glass, do not apply mechanical impacts such us dropping from a high position.
- (2) If the display panel is broken by some accident and the internal organic substance leaks out, be careful not to inhale nor lick the organic substance.
- (3) If pressure is applied to the display surface or its neighborhood of the OLED display module, the cell structure may be damaged and be careful not to apply pressure to these sections.
- (4) The polarizer covering the surface of the OLED display module is soft and easily scratched. Please be careful when handling the OLED display module.
- (5) When the surface of the polarizer of the OLED display module has soil, clean the surface. It takes advantage of by using following adhesion tape.
- * Scotch Mending Tape No. 810 or an equivalent

Never try to breathe upon the soiled surface nor wipe the surface using cloth containing solvent Also, pay attention that the following liquid and solvent may spoil the polarizer:

- * Water
- * Ketone
- * Aromatic Solvents
- (6) Hold OLED display module very carefully when placing OLED display module into the System housing. Do not apply excessive stress or pressure to OLED display module. And, do not over bend the film with electrode pattern layouts. These stresses will influence the display performance. Also, secure sufficient rigidity for the outer cases.





- (7) Do not apply stress to the LSI chips and the surrounding molded sections.
- (8) Do not disassemble nor modify the OLED display module.
- (9) Do not apply input signals while the logic power is off.
- (10) Pay sufficient attention to the working environments when handing OLED display modules to prevent occurrence of element breakage accidents by static electricity.
- * Be sure to make human body grounding when handling OLED display modules.
- * Be sure to ground tools to use or assembly such as soldering irons.
- * To suppress generation of static electricity, avoid carrying out assembly work under dry environments.
- * Protective film is being applied to the surface of the display panel of the OLED display module. Be careful since static electricity may be generated when exfoliating the protective film.
- (11) Protection film is being applied to the surface of the display panel and removes the protection film before assembling it. At this time, if the OLED display module has been stored surface of the display panel after removed of the film. In such case, remove the residue material by the method introduced in the above Section 5.
- (12) If electric current is applied when the OLED display module is being dewed or when it is placed under high humidity environments, the electrodes may be corroded and be careful to avoid the above.

11.2 Storage Precautions

- (1) When storing OLED display modules, put them in static electricity preventive bags avoiding exposure to direct sun light nor to lights of fluorescent lamps. And, also, avoiding high temperature and high humidity environment or low temperature (less than 0°C) environments. (We recommend you to store these modules in the packaged state when they were shipped from Raystar Optronics Inc. At that time, be careful not to let water drops adhere to the packages or bags nor let dewing occur with them.
- (2) If electric current is applied when water drops are adhering to the surface of the OLED display module, when the OLED display module is being dewed or when it is placed under high humidity environments, the electrodes may be corroded and be careful about the above.



11.3 Designing Precautions

- (1) The absolute maximum ratings are the ratings which cannot be exceeded for OLED display module, and if these values are exceeded, panel damage may be happen.
- (2) To prevent occurrence of malfunctioning by noise, pay attention to satisfy the VIL and VIH specifications and, at the same time, to make the signal line cable as short as possible.
- (3) We recommend you to install excess current preventive unit (fuses, etc.) to the power circuit (VDD). (Recommend value: 0.5A)
- (4) Pay sufficient attention to avoid occurrence of mutual noise interference with the neighboring devices.
- (5) As for EMI, take necessary measures on the equipment side basically.
- (6) When fastening the OLED display module, fasten the external plastic housing section.
- (7) If power supply to the OLED display module is forcibly shut down by such errors as taking out the main battery while the OLED display panel is in operation, we cannot guarantee the quality of this OLED display module. Connection (contact) to any other potential than the above may lead to rupture of the IC.



Page: 1

Modu	le Sample	e Estimate Feedback Sheet
Module Number :		
1 · Panel Specification :		
1. Panel Type:	□ Pass	□NG ,
2. Numbers of Pixel:	□ Pass	□NG ,
3. View Area:	□ Pass	□NG ,
4. Active Area:	□ Pass	□NG ,
5.Emitting Color:	□ Pass	□NG ,
6.Uniformity:	□Pass	□NG ,
7.Operating	□ Pass	□NG ,
Temperature :		, , , , , , , , , , , , , , , , , , ,
8.Storage Temperature:	□ Pass	□NG ,
9.Others:	•	
2 · Mechanical Specificati	on:	
1. PCB Size:	□Pass	□NG ,
2.Frame Size :	□Pass	□NG ,
3.Materal of Frame:	□Pass	□NG ,
4.Connector Position:	□Pass	□NG ,
5.Fix Hole Position:	□Pass	□NG ,
6. Thickness of PCB:	□Pass	□NG ,
7. Height of Frame to	□Pass	□NG ,
PCB:		
8.Height of Module:	□Pass	□NG ,
9.Others:	□Pass	□NG ,
3 · Relative Hole Size :		
1.Pitch of Connector:	□Pass	□NG ,
2.Hole size of	□Pass	□NG ,
Connector:		
3.Mounting Hole size:	□Pass	□NG ,
4.Mounting Hole Type:	□Pass	□NG ,
5.Others:	□Pass	□NG .

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4 · Electronic Characteris		
1.Input Voltage:	□Pass	□NG ,
2.Supply Current:	□Pass	
3.Driving Voltage for OLED:	□Pass	□NG ,
4.Contrast for OLED:	□Pass	□NG ,
5.Negative Voltage Output :	□Pass	□NG ,
6.Interface Function:	□Pass	□NG ,
7.ESD test:	□Pass	□NG ,
8.Others:	□Pass	□NG ,
	S	
Sales signature : _Customer Signatu		Date: / /