



OLED SPECIFICATION

Model No:

REC000802AYPP5N00000

CUSTOMER:

APPROVED BY	
PCB VERSION	
DATE	

FOR CUSTOMER USE ONLY

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY

APPROVAL FOR SPECIFICATIONS ONLY

■APPROVAL FOR SPECIFICATIONS AND SAMPLE



1. Revision History

VERSION	DATE	REVISED PAGE NO.	Note
0	2010/12/07		First release
Α	2011/07/02		Change version
В	2012/10/08		Add CIE chromaticity
			diagram
С	2014/01/24		Update Rev.
D	2014/06/16		Add Low
			Temperature storage.
E	2015/01/20		Modify Block Diagram
F	2016/06/01		Modify Static
			electricity test
G	2018/02/06		Modify Reliability test
			Condition
Н	2018/11/27		Modify Static
			electricity test
			Content of Test



Contents

- 1.General Specification
- 2. Module Classification Information
- 3.Interface Pin Function
- 4. Contour Drawing & Block Diagram
- 5. Absolute Maximum Ratings
- 6. Electrical Characteristics
- 7. Optical Characteristics
- 8.OLED Lifetime
- 9.Reliability
- 10.Inspection specification
- 11.Precautions in use of OLED Modules



1.General Specification

The Features is described as follow:

■ Module dimension: 58.0 x 32.0 x 10.0 (max) mm

■ View area: 38.0 x 16.0 mm

Active area: 28.16 x 11.86 mm

Number of Characters: 8 Characters x 2 Line

Dot size: 0.56 x 0.66 mmDot pitch: 0.60 x 0.70 mm

Character size: 2.96 x 5.56 mmCharacter pitch: 3.6 x 6.3 mm

■ Duty: 1/16

■ Emitting Color: OLED , Yellow

■ IC: RS0010

■ Interface: 6800,8080,SPI

■ Size: 1.2 inch



2. Module Classification Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14
R	Е	С	000802	Α	Υ	Р	Р	5	N	0	0	0	00

1	Brand : Raystar	Optronics Inc.					
2	E:OLED						
3	Display Type	C : COB Character G : COB Graphic X : COG H : COG + FR P : COG + FR + PCB T : TAB					
1	Number of Char	A : COG + PCB acters : 08Characters,02Lines.					
4	Series	aciers · Occinaraciers, ozcines.					
5 6	Emitting Color	A : Amber R : Red C : Full Color B : Blue W : White					
J	Limany Color	G: Green Y: Yellow S: Sky Blue X: Dual Color					
7	Polarizer	P : With Polarizer; N: Without Polarizer A : Anti-glare Polarizer					
8	Display Mode	P : Passive Matrix ; N : Active Matrix					
9	Driver Voltage	3:3.0~3.3V; 5:5.0V					
10	Touch Panel	N : Without touch panel; T: With touch panel					
11	Product type	0 : Standard 1 : Daylight Readable 2 : Transparent OLED (TOLED) 3 : Flexible OLED (FOLED) 4 : OLED Lighting					
12	Inspection Grad	0 : Standard 2 : B grade C : Automotive grade Y : Consumer grade 0 : Default ; F : ZIF FPC ; H : Hot bar FPC; D : Demo Kit					
	•	Serial number(00~ZZ)					
14	Serial No.	Ochai humber(00°22)					

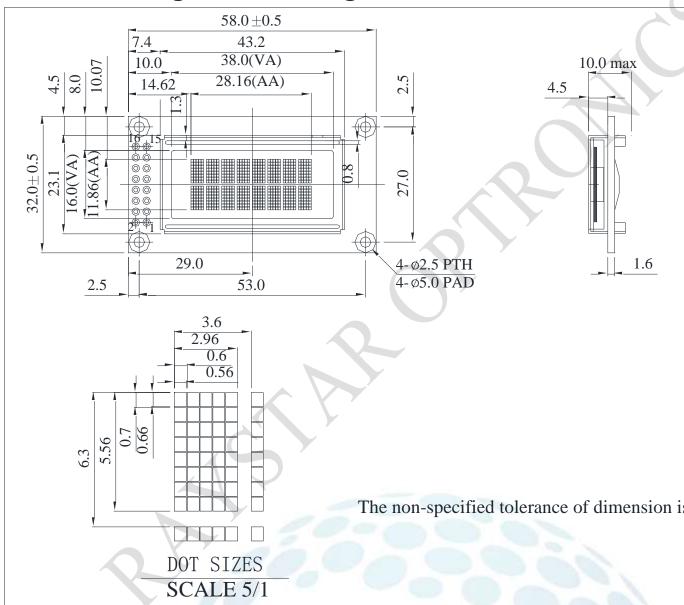


3.Interface Pin Function

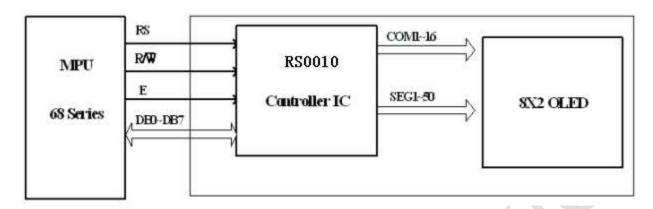
Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply Voltage for logic
3	NC	_	No Connection
4	RS	H/L	H: DATA, L: Instruction code
5	R/W	H/L	H: Read (Module> MPU) L: Write(MPU> Module)
6	E	H,H→L	Chip enable signal
7	DB0	H/L	Data bit 0
8	DB1	H/L	Data bit 1
9	DB2	H/L	Data bit 2
10	DB3	H/L	Data bit 3
11	DB4	H/L	Data bit 4
12	DB5	H/L	Data bit 5
13	DB6	H/L	Data bit 6
14	DB7	H/L	Data bit 7
15	NC	_	No Connection
16	NC	(No Connection



4. Contour Drawing & Block Diagram







Address Format	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0
CA (Character Address)	1	ADD6	ADD5	ADD4	ADD3	ADD2	ADD1	ADD0

1	2	3	4	5	6	7	8
CA=10000000b	CA=10000001b	CA=10000010b	CA=10000011b	CA=10000100b	CA=10000101b	CA=10000110b	CA=10000111b
CA=11000000b	CA=11000001b	CA=11000010b	CA=11000011b	CA=11000100b	CA=11000101b	CA=11000110b	CA=11000111b

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



5.Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit	Notes
Operating Temperature	T_OP	-40	+80	°C	-
Storage Temperature	T _{ST}	-40	+85	°C	
Supply Voltage For Logic	VDD-V _{SS}	-0.3	5.3	V	-



6.Electrical Characteristics

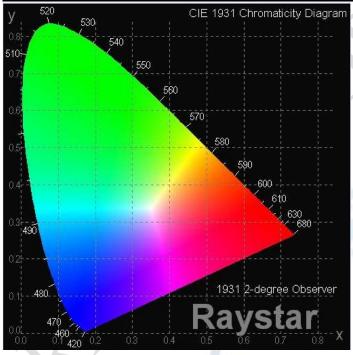
Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage For Logic	VDD-VSS	_	4.8	5.0	5.3	V
Input High Volt.	VIH	_	0.8 VDD	_	VDD	V
Input Low Volt.	VIL	_	GND	_	0.2 VDD	٧
Output High Volt.	VOH	IOH=-0.5mA	0.8 VDD	- <	VDD	V
Output Low Volt.	VOL	IOL=0.5mA	GND		0.2 VDD	V
50% Check Board	IDD	VDD=5V	16	19	22	mA
Operating Current		VDD 0V				1117 \

Note: In order to avoid any possible damages, 3V or 3.3V logic I/O for VDD 5V OLED module is not recommended.



7. Optical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
View Angle	(V)θ		160			deg
View / ungle	(Η)φ		160			deg
Contrast Ratio	CR	Dark	2000:1			
Response Time	T rise	_		10		μs
Treeponee Time	T fall	_		10		μs
Display with 50% check E	3	100	120		cd/m2	
CIEx(Yellow)	(CIE1931)	0.45	0.47	0.49		
CIEy(Yellow)	CIEy(Yellow)			0.50	0.52	





8.OLED Lifetime

ITEM	Conditions	Min	Тур	Remark
Operating Life Time	Ta=25°C / Initial 50% check board brightness 100cd/m²	80,000 Hrs	100,000 Hrs	Note

Note:

- 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

Environmental Test Test Condition Applicable				
Test Item	Content of Test	Test Condition	Standard	
High Temperature storage	Endurance test applying the high storage temperature for a long time.	85°C 240hrs		
Low Temperature storage	Endurance test applying the low storage temperature for a long time.	-40°C 240hrs		
High Temperature Operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	80°C 240hrs		
Low Temperature Operation	Endurance test applying the electric stress under low temperature for a long time.	-40°C 240hrs		
High Temperature/ Humidity Storage	Endurance test applying the high temperature and high humidity storage for a long time.	60°C,90%RH 240hrs		
High Temperature/ Humidity Operation	Endurance test applying the high temperature and high humidity Operation for a long time.	60°C,90%RH 120hrs		
Temperature Cycle	Endurance test applying the low and high temperature cycle. -40°C 25°C 80°C 30min 5min 30min	-40°C /80°C 30 cycles	200	
Mechanical Tes	st C			
Vibration test	Endurance test applying the vibration during transportation and using.	Frequency:10~55Hz amplitude:1.5mm Time:0.5hrs/axis Test axis:X,Y,Z	-20	
Others	7 7 7			
Static electricity test	Endurance test applying the electric stress to the finished product housing.	Air Discharge model ±4kv,10 times		

^{***} Supply voltage for OLED system =Operating voltage at 25°C



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 A			AQL	
01	Electrical Testing	1.1 Missing vertical, horizontal segment, segment contrast defect. 1.2 Missing character, dot or icon. 1.3 Display malfunction.		0.65		
02	Black or white spots on OLED (display only)	 2.1 White and black spots on display ≤0.25mm, no more than three white or black spots present. 2.2 Densely spaced: No more than two spots or lines within 3mm. 		2.5		
03	OLED black spots, white spots, contamin ation (non- display)	3.1 Round type : As following drawin $\Phi=(x+y)/2$		SIZE $Φ \le 0.10$ $0.10 < Φ \le 0.20$ $0.20 < Φ \le 0.25$ 0.25 < Φ	Acceptable QTY Accept no dense 2 1 0	2.5
		3.2 Line type : (As f	following d Length L≦3.0 L≦2.5 	Width W≦0.02 0.02 < W≦0.03 0.03 < W≦0.05 0.05 < W	Acceptable Q TY Accept no dense 2 As round type	2.5
04	Polarizer bubbles	If bubbles are visible using black spot specifications, not earlier, must check in direction.	easy to	Size Φ Φ \leq 0.20 0.20 $<$ Φ \leq 0.50 0.50 $<$ Φ \leq 1.00 1.00 $<$ Φ Total Q TY	Acceptable Q TY Accept no dense 3 2 0 3	2.5
05	Scratches	Follow NO.3 OLED black spots, white spots, contamination.			00	



Symbols Define: x: Chip length x: Chip length L: Electrode pad length: 6.1 General glass chip: 6.1.1 Chip on panel surface and crack between panels: Chipped glass Chip hickness y: Chip width x: Chip length x ≤ 1/8a 1/2t < z ≤ 2t Not exceed 1/3k x ≤ 1/8a 1/2t < z ≤ 2t Not exceed 1/3k x ≤ 1/8a 1/2t < z ≤ 2t Not exceed 1/3k x ≤ 1/8a Clf there are 2 or more chips, x is the total length of each chip. Symbols: x: Chip length x: Chip width x: Chip length for each chip. Symbols: x: Chip length x: Chip width x: Chip thickness x: Seal width x: Chip width x: Chip thickness x: Chip thickne	NO	Item	Criterion	
Chipped glass Chipped gla				
L: Electrode pad length: 6.1 General glass chip: 6.1.1 Chip on panel surface and crack between panels:				
6.1 General glass chip: 6.1.1 Chip on panel surface and crack between panels: Z: Chip thickness y: Chip width x: Chip length				
Chipped glass Chipped glass Z: Chip thickness				
Chipped glass Z ≤ 1/2t				
Chipped glass Z ≤ 1/2t			x x x x x	
Chipped glass Z ≤ 1/2t			The state of the s	
Chipped glass Z ≤ 1/2t				
Chipped glass Z ≤ 1/2t			Ty T	
Chipped glass Z ≤ 1/2t				
glass 1/2t < z ≤ 2t		Chipped		
Off there are 2 or more chips, x is total length of each chip. 6.1.2 Corner crack:			Ü	2.5
6.1.2 Corner crack: Z: Chip thickness y: Chip width x: Chip length Z ≤ 1/2t Not over viewing area x ≤ 1/8a 1/2t < z ≤ 2t Not exceed 1/3k x ≤ 1/8a ⊙ If there are 2 or more chips, x is the total length of each chip. Symbols: x: Chip length y: Chip width z: Chip thickness 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 : Glass crack				
			On there are 2 or more chips, x is total length of each chip.	
			6.1.2 Corner crack:	
			17 - V	
			The state of the s	
$Z \le 1/2t \qquad \text{Not over viewing area} \qquad x \le 1/8a \\ 1/2t < z \le 2t \qquad \text{Not exceed } 1/3k \qquad x \le 1/8a \\ \hline 0 \text{ If there are 2 or more chips, x is the total length of each chip.} \\ Symbols: \\ x: \text{Chip length} \qquad y: \text{Chip width} \qquad z: \text{Chip thickness} \\ k: \text{Seal width} \qquad t: \text{Glass thickness} \qquad a: \text{OLED side length} \\ L: \text{Electrode pad length} \\ 6.2 \text{ Protrusion over terminal :} \\ 6.2.1 \text{ Chip on electrode pad :} \\ \hline \text{Glass crack} \\ \hline y: \text{Chip width} \qquad x: \text{Chip length} \qquad z: \text{Chip thickness} \\ \hline \text{2.5} \\ \hline$	06		VI.	
$Z \le 1/2t \qquad \text{Not over viewing area} \qquad x \le 1/8a \\ 1/2t < z \le 2t \qquad \text{Not exceed } 1/3k \qquad x \le 1/8a \\ \hline 0 \text{ If there are 2 or more chips, x is the total length of each chip.} \\ Symbols: \\ x: \text{Chip length} \qquad y: \text{Chip width} \qquad z: \text{Chip thickness} \\ k: \text{Seal width} \qquad t: \text{Glass thickness} \qquad a: \text{OLED side length} \\ L: \text{Electrode pad length} \\ 6.2 \text{ Protrusion over terminal :} \\ 6.2.1 \text{ Chip on electrode pad :} \\ \hline \text{Glass crack} \\ \hline y: \text{Chip width} \qquad x: \text{Chip length} \qquad z: \text{Chip thickness} \\ \hline \text{2.5} \\ \hline$				
1/2t < z ≤ 2t Not exceed 1/3k x ≤ 1/8a ⊙ If there are 2 or more chips, x is the total length of each chip. Symbols: x: Chip length y: Chip width z: Chip thickness 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: Glass crack y: Chip width x: Chip length z: Chip thickness				
olf there are 2 or more chips, x is the total length of each chip. Symbols: x: Chip length y: Chip width z: Chip thickness 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: Glass crack y: Chip width x: Chip length z: Chip thickness			3	
Symbols: x: Chip length y: Chip width z: Chip thickness 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: Glass crack y: Chip width x: Chip length z: Chip thickness				
x: Chip length y: Chip width z: Chip thickness 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: Glass crack y: Chip width x: Chip length z: Chip thickness				
L: Electrode pad length 6.2 Protrusion over terminal : 6.2.1 Chip on electrode pad : y: Chip width x: Chip length z: Chip thickness				
Glass crack 9: Chip width x: Chip length z: Chip thickness				
Glass crack y: Chip width x: Chip length z: Chip thickness				
Glass crack y: Chip width x: Chip length z: Chip thickness		χ 7		
y: Chip width x: Chip length z: Chip thickness		Glass	0.2. Pomp on electrode pad .	
y: Chip width x: Chip length z: Chip thickness				2.5
			ALL THE REAL PROPERTY OF THE PARTY OF THE PA	
$y \le 0.5$ mm $x \le 1/8$ a $0 < z \le t$		7		
			$y \le 0.5 \text{mm} \qquad x \le 1/8 \text{a} \qquad 0 < z \le t$	30



NO	Item	Criterion A	
06	Glass	6.2.2 Non-conductive portion: y: Chip width x: Chip length z: Chip thickness y \leq L x \leq 1/8a 0 < z \leq t	2.5
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.	
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



NO	Item	Criterion	AQL
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 0.65 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
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 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. 	2.5 0.65 2.5 2.5 2.5 2.5 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 Pixel C Light Pixel



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.)

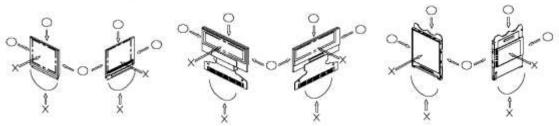
11.1 Handling Precautions

- (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		
Module Sample 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 Temperature:	□ Pass	□NG ,		
8.Storage Temperature :	□ Pass	□NG ,		
9.Others:	•			
2 · Mechanical Specification				
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 PCB:	□Pass	□NG ,		
8.Height of Module:	□Pass	□NG ,		
9.Others:	□Pass	□NG ,		
3 · Relative Hole Size :				
1.Pitch of Connector:	□Pass	□NG ,		
2.Hole size of Connector:	□Pass	□NG ,		
	00			
3.Mounting Hole size :	□Pass	□NG ,		
4.Mounting Hole Type:	□Pass	□NG ,		
5.Others : □Pass		□NG ,		

>> Go to page 2 <<



Module Number :		i aye. z	
4 · Electronic Characteristics of Module :			
1.Input Voltage :	□Pass	□NG	
2.Supply Current :	□Pass	□NG ,	
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 ,	
Sales signature :		Date: / /	
Customer Signature: <u>Date: / /</u>			

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Displays & Accessories category:

Click to view products by Raystar manufacturer:

Other Similar products are found below:

LTC-2721WC LTC-4624JD LTC-4627G LTC-4627WC LTD-5021AWC LTM-8522G LTP-4323P LTP-747G LTS-3361JG-06
F416SYGWA/S530-E3 EADST040RA2 1668 HT-F196NB-5323 IPD2131-27 SA03-12EWA LDD-E2802RD LDD-E306MI LDQ-N514RI
LDS-A3506RD LDS-A3926RI LDT-M516RI SC03-12HDB SI-B9T151550WW SI-B9V171550WW SLC-3PF-WL 1624 LTC-2621JD
LTC-2623WC LTC-4624P LTC-4627JD LTD-2601E LTD-2601P LTD-322G LTD-482PC LTP-1457AKR LTP-3784G-01 LTS-313AP
LTS-4812SKR-P LTS-547AE LTS-6780P 446010401-3 HV-7W30-6829 CA12240_MINNIE-WWW-MTG-ASSY DA43-11GWA LDD-A516RI-17 LDD-E305RI LDQ-M513RI LDQ-M5204RI-SI LDQ-N3402RI LDQ-N3606RI