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WINSTAR Display

OLED SPECIFICATION

Model No:

WEO012864QSPP3N00000

SPECIFICATION Version: J

CUSTOMER : MODULE NO. : WEO012864QSPP3N00000



(FOR CUSTOMER USE ONLY)

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RELEASE DATE:		

APPROVAL FOR SPECIFICATIONS ONLY

APPROVAL FOR SPECIFICATIONS AND SAMPLE (
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MODEL NO:

	RECORDS OF REVISION DOC. FIRST ISSUE					
REC			DOC. FIRST ISSUE			
VERSION	DATE	REVISED PAGE NO.	SUMMARY			
0	2017/04/19		First release			
A	2019/08/30		Modify Precautions in use of OLED Modules			
В	2019/12/18	~	Modify Reliability Test and measurement conditions & Inspection specification:" Accept no dense" modify to "ignore"& Precautions			
С	2020/06/11		Modify PIN 15 Interface Pin Function			
D	2020/08/25	V	Modify Contrast Ratio			
E	2020/08/27		Modify Inspection specification			
F	2020/11/18		Modify Storage Precautions			
G	2021/02/25		Modify Precautions in use of OLED Modules			
H	2022/10/05		Modify Reliability Test and measurement conditions			
	2023/04/26		Modify Lifetime note			
J	2023/05/18		Modify the inspection criteria name of the inspection specification			

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- 9.Reliability
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- 11.Precautions in use of OLED Modules

Module Classification Information \underline{W} \underline{E} \underline{O} $\underline{012864}$ \underline{Q} \underline{S} \underline{P} \underline{P} $\underline{3}$ \underline{N} $\underline{0}$ $\underline{0}$

1	Brand : WINSTA	R DISPLAY CORPORAT	ION				
2	E : OLED						
3	Display Type : $H \rightarrow Character, G \rightarrow Graphic , X \rightarrow TAB , O \rightarrow COG , F \rightarrow COG (with$						
4	Dot Matrix : 12	8 * 64					
5	Serials code	rials code					
		A : Amber	R : Red	C : Full Color			
6		B : Blue	W : White	7			
0	Emitting Color	G : Green	L : 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 ; 5:5.0	V				
10	Touch Panel	N: Without touch panel	; T: With touch panel				
		0 : Standard	7				
44	Dready set to me	1 : Sunlight Readable					
11	Product type	2: Transparent OLED (3: Flexible OLED (FOL					
		4 : OLED Lighting					
		0 : Standard					
10	Inspection	2 : Special grade					
12	Grade	C: Automotive grade					
		Y : Consumer grade		\mathbf{i}			
13	Interface		:Hot bar ; D:Demo Kit				
14	Serial No.	Serial number(00~99)					

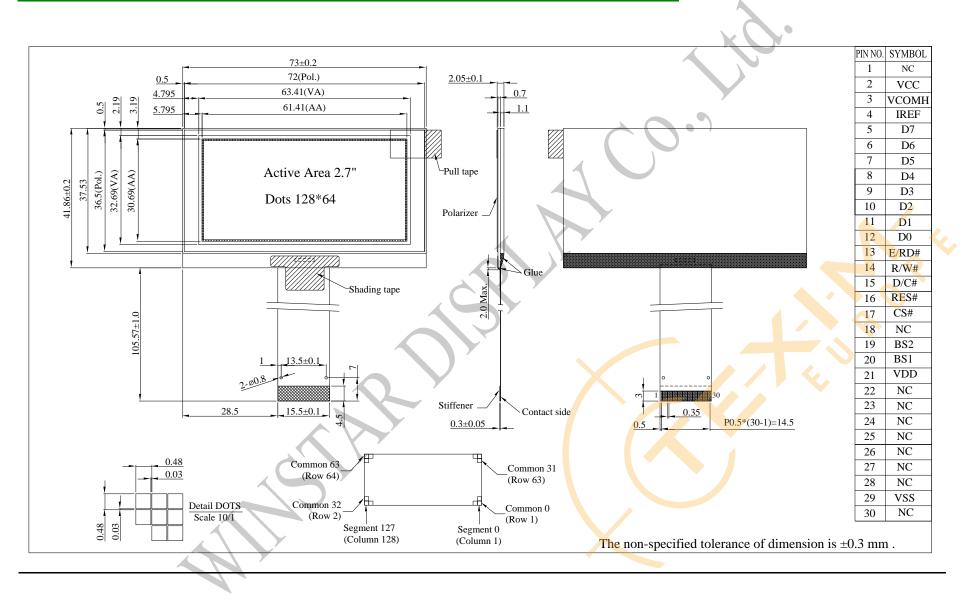


2.General Specification

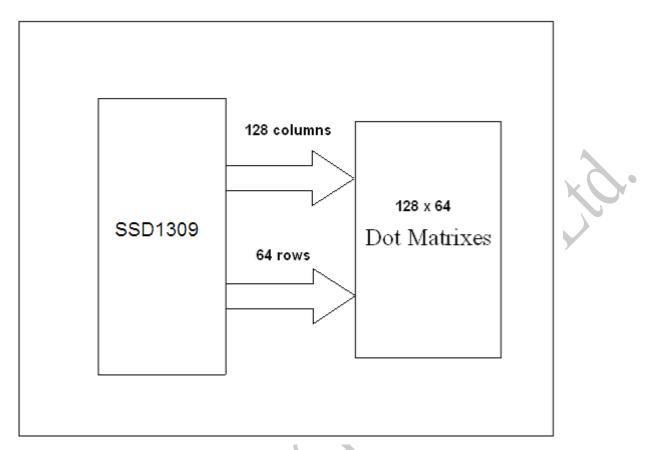
ltem	Dimension	Unit		
Dot Matrix	128 x 64	_		
Module dimension	73.0 × 41.86 × 2.05	mm		
Active Area	61.41 × 30.69	mm		
Pixel Size	0.45 × 0.45	mm		
Pixel Pitch	0.48 × 0.48	mm		
Display Mode	Passive Matrix			
Display Color	Monochrome (Sky blue)			
Drive Duty	1/64 Duty			
IC	SSD1309			
Interface	I2C, 4-Wire SPI ,6800, 8080			
Size	2.7 inch			

ALLS'

3. Contour Drawing & Block Diagram



FUNCTION BLOCK DIAGRAM



*For more information, please refer to Application Note provided by Winstar



4. Interface Pin Function

No.	Symbol	Function
1	NC	No connection
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
4	IREF	This pin is the segment output current reference pin. IREF is supplied externally.
5~12	D7~D0	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC. When I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.
13	E/RD#	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected. When 8080 interface mode is selected, this pin receives the Read (RD#) signal. Read operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS.
14	R/W#	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW. When 8080 interface mode is selected, this pin will be the Write (WR#) input. Data write operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS.
15	D/C#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register. In I2C mode, this pin acts as SA0 for slave address selection.

		This pin is reset sign	alinnut		
16	RES#			nitializatio	n of the chip is executed.
10	KLO#	Keep this pin pull HI			
		This pin is the chip s			
17	CS#				ation only when CS# is pulled
17	00#	LOW (active LOW).			ation only when CO# is pulled
40	NO				
18	NC	No connection			
					t appropriate logic setting as
		described in the follo	wing tabl	e. BS2 and	d BS1 are pin select 📐
19	BS2		BS1	BS2	
		I2C	1	0	
			0	0	
		- 4-wire Serial		0	
		8-bit 68XX Parallel	0	1	×
	_	8-bit 80XX Parallel	1	1	
20	BS1	Note			
			Vee		
		(1) 0 is connected to			
		(2) 1 is connected to			
21	VDD	Power supply pin for	core logi	c operation	1
22~28	NC	No connection			7
29	VSS	Ground.			
30	NC	No connection		$\mathbf{\nabla}$	

5.Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	4	V	1, 2
Supply Voltage for Display	VCC	0	15	V	1, 2
Operating Temperature	ТОР	-40	+80	°C	2
Storage Temperature	TSTG	-40	+80	°C	-

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

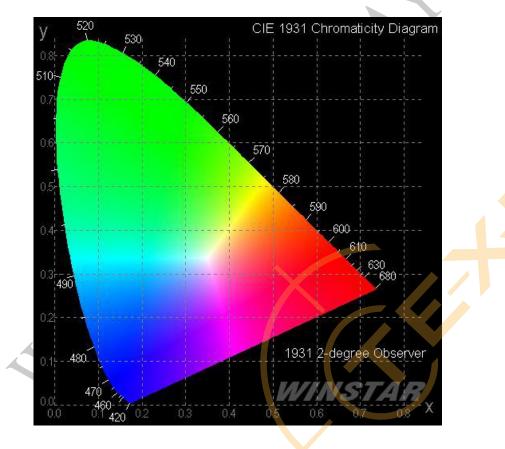
Note 2: When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 6 "Electrical Characteristics". If this module is used beyond these conditions,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

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	_	12.5	13	13.5	V
High Level Input	VIH	—	0.8×VDD	—	-	V
Low Level Input	VIL	—	—	—	0.2×VDD	V
High Level Output	VOH	—	0.9×VDD	/		V
Low Level Output	VOL	—	—	—	0.1×VDD	V
50% Check Board operati Current	ng	VCC =13.0V	20	22	24	mA

7.Optical Characteristics

ltem	Symbol	Condition	Min	Тур	Мах	Unit
View Angle	(V)θ		160			deg
view / trigie	(Н)ф		160			deg
Contrast Ratio	CR	Dark	10,000:1			-
Response Time	T rise	—		10		μs
	T fall	—		10		μs
Display with 50% check	Board Bri	ghtness	50	60		cd/m2
CIEx(SkyBlue)		(CIE1931)	0.12	0.16	0.20	
CIEy(SkyBlue)		(CIE1931)	0.22	0.26	0.30	



8.OLED Lifetime

ITEM	Conditions	Min	Тур	Remark
Operating Life Time	Ta=25℃ / Initial 50% checkerboard brightness Typical Value	20,000 Hrs	_	Note

Note:

- 1. Lifetime is defined the amount of time when the luminance has decayed to <50% of the minimal brightness.
- 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.
- 4. Lifetime is not guaranteed one but expected lifetime in normal condition.

9.Reliability

Content of Reliability Test

Environmenta			Applicable
Test Item	Content of Test	Test Condition	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°C 240hrs	$-\langle \rangle$
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	
Temperature Cycle	Endurance test applying the low and high temperature cycle. -40°C 25°C 80°C 30min <u>5min 30min</u>	-40°C/80°C 100 cycles	
Mechanical Tes	it 💦		
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	
Others			
Static electricity test	Endurance test applying the electric stress to the terminal.	VS= ± 600 V(contact) ± 800 v(air), RS= 330Ω CS= 150 pF 10 times),

*** Supply voltage for OLED system = Operating voltage at $25^{\circ}C$

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 functional test at 23±5°C; 55±15% RH.
- 2. All-pixels on/off exchange is used as operation test pattern.
- 3. The degradation of Polarizer are ignored for High Temperature storage, High Temperature/ Humidity Storage, Temperature Cycle.
- 4. No Condensation.

Evaluation criteria

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

Inspection Standard:

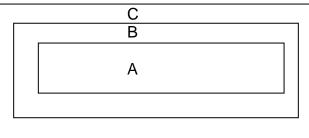
MIL-STD-105E table normal inspection single sample level II.

Definition

1 Major defect : The defect that greatly affect the usability of product.

2 Minor defect : The other defects, such as cosmetic defects, etc.

Definition of inspection zone:



Zone A: Active Area

Zone B: Viewing Area except Zone A

Zone C: Outside Viewing Area

Note: As a general rule, visual defects in Zone C are permissible, when it is no trouble of quality and assembly to customer's product.

Inspection Methods

- 1 The general inspection : Under fluorescent light illumination: 750~1500 Lux, about 30cm viewing distance, within 45° viewing angle, under 25±5°C.
- 2 The luminance and color coordinate inspection : By SR-3 or BM-7 or the equal equipments, in the dark room, under 25±5°C.

NO	Item	Criterion	AQL
01	Electrical Testing	 1.1 Missing vertical, horizontal segment, segment contrast defect. 1.2 Missing character, dot or icon. 1.3 Display malfunction. 1.4 No function or no display. 1.5 Current consumption exceeds product specifications. 1.6 OLED viewing angle defect. 1.7 Mixed product types. 1.8 Contrast defect. 	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

NO	Item		Criterior	۱		AQL
	OLED black spots, white spots, contamination (non-display)	3.1 Round type : As following drawing $\Phi=(x + y) / 2$	$SIZE \\ \Phi \le 0.10 \\ 0.10 < \Phi \le 0.20 \\ 0.20 < \Phi \le 0.25 \\ 0.25 < \Phi \\ \end{array}$	Acceptable QTY ignore 2 1 0	Zone A+ B A+ B A+ B A+ B	2.5
03		3.2 Line type : (As	h Width $W \leq 0.02$ 0 0.02 < W ≤ 0.0	Acceptable Q TY ignore 3 2	Zone A+B A+B A+B	2.5
04	Polarizer bubbles /Dent	 4.1 If bubbles are visible, judge using black spot specifications, not easy to find, must check in specify direction. 4.2 The polarizer of 	Size Φ $\Phi \leq 0.20$ $0.20 < \Phi \leq 0.50$ $0.50 < \Phi \leq 1.00$ $1.00 < \Phi$ Total Q TY dent follows this sp	Acceptable Q TY ignore 3 2 0 3 3 ecification.	Zone A+B A+B A+B A+B	2.5
05	Scratches	Follow NO.3 OLE	D black spots, whit	e spots, contamina	tion.	

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NO	Item	Criterion	AQL
06	Chipped glass	Symbols Define: x: Chip lengthy: Chip widthz: Chip thicknessk: Seal widtht: Glass thicknessa: OLED side lengthL: Electrode pad length: 6.1 General glass chip : 6.1.1 Chip on panel surface and crack between panels: \overrightarrow{x} <t< td=""><td>2.5</td></t<>	2.5
06	Glass crack	$\begin{array}{c c} Symbols: \\ x: Chip length \\ k: Seal width \\ t: Glass thickness \\ a: OLED side length \\ for the formula in the formula$	2.5

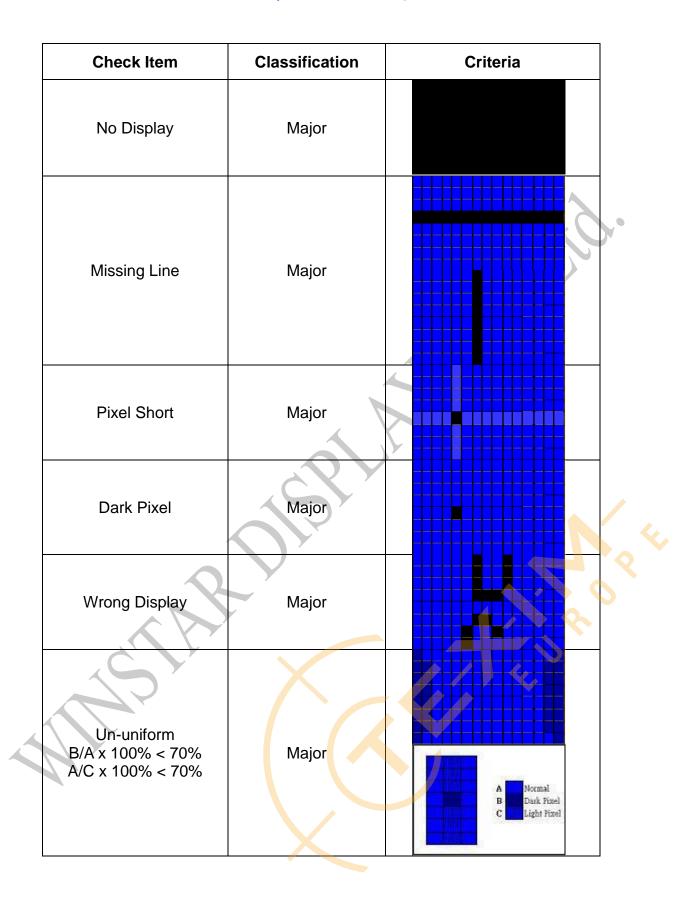
NO	Item	Criterion		
		6.2.2 Non-conductive portion:		
06	Glass crack	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2.5	
		y: width x : length $y \le 1/3L$ $x \le a$		
07	Cracked glass	The OLED with extensive crack is not acceptable.	2.5	
08	Backlight elements	 8.1 Illumination source flickers when lit. 8.2 Spots or scratched that appear when lit must be judged. Using OLED spot, lines and contamination standards. 	0.65 2.5	
		8.3 Backlight doesn't light or color wrong.	0.65	
09	Bezel	9.1 Bezel may not have rust, be deformed or have fingerprints, stains or other contamination.	2.5	
		9.2 Bezel must comply with job specifications. 10.1 COB seal may not have pinholes larger than 0.2mm or	0.65 2.5	
		 10.1 COB seal may not have pinholes larger than 0.2mm of 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 	2.5 2.5 0.65	
10	PCB, COB	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	2.5	
		three places. 10.5 No oxidation or contamination PCB terminals.	2.5	
		10.6 Parts on PCB must be the same as on the production	0.65	
		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.	0.65	
		10.8 If solder gets on bezel tab pads, OLED pad, zebra pad or	2.5	
	WINSTAI	WEO012864QSPP3N00000 第18頁,共24頁		

screw hold pad, make sure it is smoothed down.	



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NO	Item	Criterion	AQL
11	Soldering	 Soldering 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. 	
		12.1 No ovidation contamination curves or bends on interface	2.5
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. 	2.5 0.65 2.5 2.5 2.5 2.5
		 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 2.5 0.65 0.65 0.65 0.65



11.Precautions in use of OLED Modules

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, change the components or modify its shape of OLED display module.
- (3) Don't disassemble the OLED display module.
- (4) Do not apply input signals while the logic power is off.
- (5) Don't operate it above the absolute maximum rating.
- (6) Don't drop, bend or twist OLED display module.
- (7) Soldering: only to the I/O terminals.
- (8) Hot-Bar FPC soldering condition: 280~350C, less than 5 seconds.
- (9) Winstar has the right to change the passive components (Resistors, capacitors and other passive components will have different appearance and color caused by the different supplier.) and 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, Winstar have the right to modify the version.)
- (10) Winstar has the right to upgrade or modify the product function.
- (11) For COG & COF structure OLED products, customers should reserve VCC (VPP) adjustment function or software update function when designing OLED supporting circuit. (The progress of OLED light-emitting materials will increase the conversion efficiency and the brightness. The brightness can be adjusted if necessary).

11.1. Handling Precautions

- (1) Since the display panel is being made of glass, do not apply mechanical impacts such as 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. So, 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.
- (5) When the surface of the polarizer of the OLED display module has soil, clean the surface. It takes advantage 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 such as ethyl alcohol, since the surface of the polarizer will become cloudy.

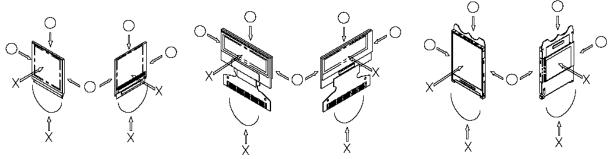
Also, pay attention that the following liquid and solvent may spoil the polarizer:

* Water

- * Ketone
- * Aromatic Solvents
- (6) 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 for a long period of time, residue adhesive material of the protection film may remain on the 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.
- (7) Do not touch the following sections whenever possible while handling the OLED display modules.
 - * Pins and electrodes

* Pattern layouts such as the TCP & FPC

(8) 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.



- (9) Do not apply stress to the LSI chips and the surrounding molded sections.
- (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.

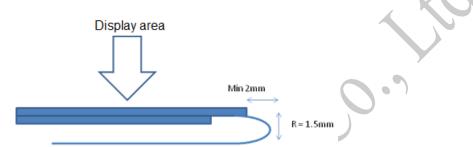
11.2. Storage Precautions

- (1) When storing OLED display modules, put them in static electricity preventive bags to avoid be directly exposed to sun or lights of fluorescent lamps. And, also, place in the temperature 25±5°C and Humidity below 65% RH.(We recommend you to store these modules in the packaged state when they were shipped from Winstar. At that time, be careful not to let water drops adhere to the packages or bags.)
- (2) When the OLED display module is being dewed or when it is placed under high temperature or high humidity environments, the electrodes may be corroded if electric current is applied. Please store it in clean environment.

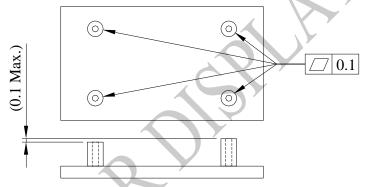
11.3. Designing Precautions

- (1) The absolute maximum ratings are the ratings which cannot be exceeded for OLED display module, and if these values are exceeded, OLED display module may be damaged.
- (2) To prevent occurrence of malfunctioning by noise, pay attention to satisfy the VIL and VIH specification and 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 / VCC). (Recommend value: 0.5A)
- (4) Pay sufficient attention to avoid occurrence of mutual noise interference with the nearby devices.
- (5) As for EMI, take necessary measures on the equipment side basically.
- (6) If the power supplied 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.

- (7) If this OLED driver is exposed to light, malfunctioning may occur and semiconductor elements may change their characteristics.
- (8) The internal status may be changed, if excessive external noise enters into the module. Therefore, it is necessary to take appropriate measures to suppress noise generation or to protect module from influences of noise on the system design.
- (9) We recommend you to make periodical refreshment of the operation statuses (re-setting of the commands and re-transference of the display data) to cope with catastrophic noise.
- (10) It's pretty common to use "Screen Saver" to extend the lifetime and Don't use the same image for long time in real application. When an OLED display module is operated for a long of time with fixed pattern, an afterimage or slight contrast deviation may occur.
- (11) The limitation of FPC and Film bending.



(12) The module should be fixed balanced into the housing, or the module may be twisted.



(13) Please heat up a little the tape sticking on the components when removing it; otherwise the components might be damaged.

11.4. Precautions when disposing of the OLED display modules

(1) Request the qualified companies to handle industrial wastes when disposing of the OLED display modules. Or, when burning them, be sure to observe the environmental and hygienic laws and regulations.

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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





Headquarters & Warehouse

Elektrostraat 17 NL-7483 PG Haaksbergen The Netherlands

T:	+31 (0)53 573 33 33
E:	info@texim-europe.com
Homepage:	www.texim-europe.com





The Netherlands

Elektrostraat 17 NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33 E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10 B-1731 Zellik

T: +32 (0)2 462 01 00 E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane Carlton Le Moorland Lincoln LN5 9HS

T: +44 (0)1522 789 555 E: uk@texim-europe.com



Germany Bahnhofstrasse 92

D-25451 Quickborn

T: +49 (0)4106 627 07-0 E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9 D-81829 München

T: +49 (0)89 436 086-0 E: muenchen@texim-europe.com



Austria Warwitzstrasse 9 A-5020 Salzburg

T: +43 (0)662 216 026 E: austria@texim-europe.com



Nordic Stockholmsgade 45 2100 Copenhagen

T: +45 88 20 26 30 E: nordic@texim-europe.com



Martin-Kollar-Strasse 9 D-81829 München

T: +49 (0)89 436 086-0 E: italy@texim-europe.com

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www.texim-europe.com