

MECHANICAL DATA

Module dimension

Viewing area Active area

Mounting hole

Dot size Dot pitch STANDARD VALUE

41.8 x 27.9 x 1.8 38.45 x 20.21

36.45 x 18.21

0.255 x 0.255

0.285 x 0.285

n/a

ITEM

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128 x 64 Graphic OLED

UNIT

mm

FEATURES

- Type: graphic
- Display format: 128 x 64 dots
- Built-in controller: SSD1325
- Duty cycle: 1/64
- +3 V power supply
- Interface: 6800, 8080, SPI, I²C
- With polarizer
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS							
ITEM	SYMBOL	STANDAF	UNIT				
	STMBOL	MIN.	MAX.	UNIT			
Supply voltage for logic ⁽¹⁾⁽²⁾	V_{DD}	-0.3	4	v			
Supply voltage for display ⁽¹⁾⁽²⁾	V_{CC}	0	15	v			
Operating temperature	T _{OP}	-40	+80	°℃			
Storage temperature	T _{STG}	-40	+80	0			

Notes

- $^{(1)}\,$ All the above voltages are on the basis of "V_{SS} = 0 V"
- (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 "Electrical Characteristics". If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	STANDARD VALUE			.UE	LINUT	
	STINIBUL	YMBOL CONDITION		TYP.	MAX.	UNIT	
Supply voltage for logic	V _{DD}	-	2.8	3.0	3.3		
Supply voltage for display	V _{CC}	-	13.5	14	14.5		
Input high voltage	VIH	-	0.8 V _{DD}	-	V _{DD}	v	
Input low voltage	V _{IL}	-	0	-	0.2 V _{DD}	v	
Output high voltage	V _{OH}	-	0.9 V _{DD}	-	V _{DD}		
Output low voltage	V _{OL}	-	0	-	0.1 V _{DD}		
50 % check board operating current	I _{CC}	$V_{CC} = 14 V$	12	13	15	mA	

OPTIONS				
		EMITTING COLOR		
YELLOW	GREEN	RED	BLUE	WHITE
Yes	-	-	-	-

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For technical questions, contact: displays@vishay.com

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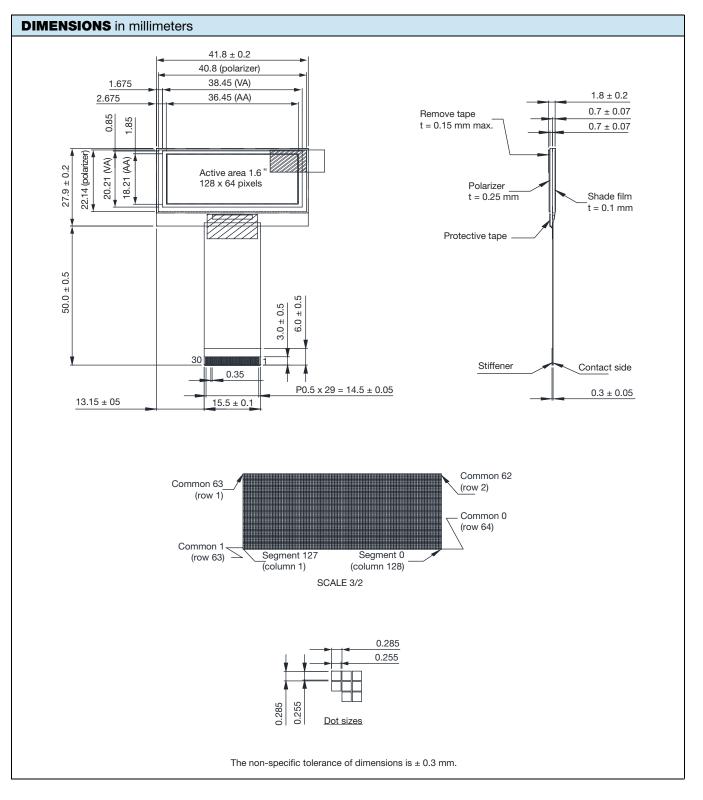
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OLED-1280064F-LPP3N00000

INTERF/	ACE PIN FU	NCTION						
PIN NO.	SYMBOL			FUNCTION				
1	NC (GND)	No connection						
2	V _{CC}		Power supply for OLED panel This is the most positive voltage supply pin of the chip. It must be supplied externally					
3	V _{COMH}		This pin is the input pin for the voltage output high level for COM signals. It can be supplied externally or internally. When V_{COMH} is generated internally, a capacitor should be connected between this pin and V_{SS}					
4	I _{REF}	This pin is segment current at 10 μA	This pin is segment current reference pin. A resistor should be connected between this pin and V_{SS}. Set the current at 10 μA					
5								
6								
7								
8	D0 to D7	These pins are 8-bit	bi-directional data b	us to be connected t	o the microprocessor'	s data bus. When serial		
9	D0 10 D7	mode is selected, D	1 will be the serial da	ta input SDIN and DO) will be the serial cloc	k input SCLK		
10								
11								
12								
13	E / RD#	the enable (E) signal "low". When conne	. Read / write operat cting to an 8080-mi	ion is initiated when	this pin is pulled "high n receives the read (this pin will be used as " and the CS# is pulled RD#) signal. Data read		
14	R/W#	read / write (R / W#) When 8080 interface	This pin is MCU interface input. When interfacing to a 6800-series microprocessor, this pin will be used as read / write (R / W#) selection input. Pull this pin to "high" for read mode and pull it to "low" for write mode. 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 CS# is pulled "low"					
15	D / C#	display data. When	the pin is pulled low,	the input at D7 to D0		t D7 to D0 is treated as the command register. stics diagrams		
16	RES#	This pin is reset sign	al input. When the pi	in is "low", initializatio	on of the chip is execu	ted		
17	CS#	This pin is the chip s	elect input. The chip	is enabled for MCU of	communication only w	hen CS# is pulled "low"		
18	NC	No connection						
10	DCO	Communicating prot	ocol select. These p	ins are MCU interface	e selection input. See t	the following table:		
19	BS2		68XX-parallel	80XX-parallel	Serial	l ² C		
		BS1	0	1	0	1		
20	BS1	BS2	1	1	0	0		
01	NIC							
21	NC	No connection						
22	NC	No connection						
23	NC	No connection						
24	NC	No connection						
25	NC	No connection						
26	NC	No connection						
27	NC	No connection						
28	NC	No connection						
29	V _{SS}	This is a ground pin connected to extern		erence for the logic p	ins and the OLED driv	ing voltages. It must be		
30	V _{SL}	This pin is the output between this pin and		output low level for S	EG signals. A capacito	or should be connected		



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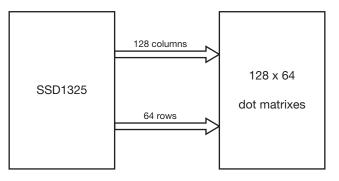
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MODULE CLA	ASSIFICATION INFORM	ATION			
OLED -	128 O 064 F	- L P P 3 N 0 0 000			
1					
1	Brand	Vishay Intertechnology, Inc.			
2	Horizontal format	128 columns			
		F: COG type, with frame			
		H: graphic type			
3	Display type	N: character type			
		O: COG type			
		Y: tab type			
4	Vertical format	64 lines			
5	Serials code	F			
		A: amber			
		B: blue			
		C: full color			
		G: green			
6	Emitting color	L: yellow			
		R: red			
		S: sky blue			
		W: white			
		X: yellow / sky blue (dual color)			
		Y: yellow green			
7	Polarizer	N: without polarizer			
		P: with polarizer			
8	Display mode	A: active matrix			
		P: passive matrix			
9	Driver voltage	3: 3.0 V to 3.3 V			
		5: 5.0 V N: without touch panel			
10	Touch panel	T: with touch panel			
		0: standard			
		1: sunlight readable			
11	Products type	2: transparent OLED (TOLED)			
-		3: flexible OLED			
		4: OLED for lighting			
		0: standard (A level)			
		2: B level			
12	Product grades	3: C level			
	-	4: high class (AA level)			
		5: customer offerings			
13	Serial number	Application serial number (000 to ZZZ)			



GENERAL SPECIFICATIONS					
ITEM	DIMENSION	UNIT			
Number of characters	128 x 64 dots				
Module dimension	41.8 x 27.9 x 1.8	mm			
View area	38.45 x 20.21	mm			
Active area	36.45 x 18.21	mm			
Dot size	0.255 x 0.255	mm			
Dot pitch	0.285 x 0.285	mm			
Panel type	OLED, yellow				
Duty	1/64				
IC	SSD1325				

FUNCTION BLOCK DIAGRAM



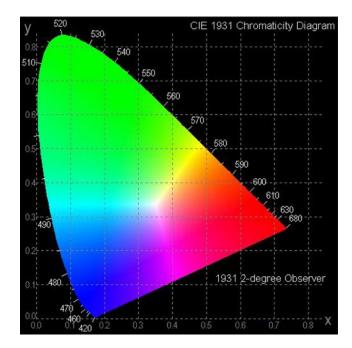
Note

• For more information, please refer to Application Note provided by Vishay





OPTICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
View angle	(V)θ		160	-	-	
	(H)φ		160	-	-	deg
Contrast ratio	CR	Dark	2000 : 1	-	-	-
Response time	t _{rise}		-	10	-	μs
Response time	t _{fall}		-	10	-	μs
Display with 50 % check board brightness			60	80	-	cd/m ²
CIE _x (yellow)	(CIE1931)		0.45	0.47	0.49	
CIE _y (yellow)	(CIE1931)		0.48	0.50	0.52	



OLED LIFETIME			
ITEM	CONDITIONS	MIN.	TYP.
Operating life time	$T_A = 25$ °C, initial 50 % check board brightness typical value	50 000 h	-

Notes

• Life time is defined the amount of time when the luminance has decayed to < 50 % of the initial value

 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

Screen saving mode will extend OLED lifetime



RELABILITY				
ENVIRONMENTAL TEST				
TEST ITEM		CONTENT OF TEST	•	TEST CONDITION
High temperature storage	Endurance test applying the high storage temperature for a long time			80 °C, 240 h
Low temperature storage	Endurance test applying the low storage temperature for a long time			-40 °C, 240 h
High temperature operation	Endurance test applying the electric stress (voltage and current) and the thermal stress to the element for a long time			80 °C, 240 h
Low temperature operation	Endurance test ap temperature for a lor	plying the electric	stress under low	-40 °C, 240 h
High temperature / humidity storage	Endurance test app humidity storage for		nperature and high	60 °C, 90 % RH, 240 h
	Endurance test appl	ying the low and hig	h temperature cycle	
	-40 °C	25 °C	80 °C	
Temperature cycle	\frown	← →	>	-40 °C / 80 °C, 100 cycles
	30 min	5 min	30 min	
		1 cycle		
MECHANICAL TEST				
Vibration test	Endurance test app and using	lying the vibration d	uring transportation	10 Hz to 22 Hz for 1.5 mm peak-to-peak 22 Hz to 500 Hz for 1.5 <i>g</i> , total 0.5 h
Shock test	Constructional and shock during transp		ce test applying the	50 <i>g</i> half sin wave 11 ms, 3 times of each direction
Atmospheric pressure test	Endurance test app transportation by air		eric pressure during	115 mbar, 40 h
OTHERS				
Static electricity test	Endurance test appl	ying the electric stre	ss to the terminal	$V_S = \pm 600$ V (contact), ± 800 V (air), R _S = 330 Ω , C _S = 150 pF, 10 times

Note

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 hours prior to conducting the failure test at 23 °C \pm 5 °C, 55 % \pm 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

- 4. The function test is OK
- 5. No observable defects
- 6. Luminance: > 50 % of initial value
- 7. 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.



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INS	PECTION SPECI	FICATION				
NO.	ITEM		CRITERIO	N		AQL
01	Electrical testing Black or white spots on OLED	 1.1 Missing vertical, horizont 1.2 Missing character, dot or 1.3 Display malfunction 1.4 No function or no display 1.5 Current consumption exc 1.6 OLED viewing angle defe 1.7 Mixed product types 1.8 Contrast defect 2.1 White and black spots or 	ceeds product specific	cations	ite or black spots present	0.65
02	(display only)	2.2 Densely spaced: no more	e than two spots or lin	es within 3 mm		2.5
		3.1 Round type: as following $\Phi = (x + y) / 2$ $\Rightarrow x = 4$	drawing	SIZE $\Phi \le 0.10$	ACCEPTABLE QTY Accept no dense	0.5
	OLED black spots,			$0.10 < \Phi \le 0.20$ 0.20 < $\Phi \le 0.25$ 0.25 < Φ	2 1 0	2.5
03	white spots, contamination (non-display)	3.2 Line type (as following drawing)	LENGTH - L ≤ 3.0 L ≤ 2.5 -	WIDTH $W \le 0.02$ $0.02 < W \le 0.03$ $0.03 < W \le 0.05$ $0.05 < W$	ACCEPTABLE QTY Accept no dense 2 As round type	2.5
04	Polarizer bubbles	If bubbles are visible, judge specifications, not easy to fi specify direction.	using black spot nd, must check in	SIZE Φ $\Phi \le 0.20$ $0.20 < \Phi \le 0.50$ $0.50 < \Phi \le 1.00$ $1.00 < \Phi$ Total QTY	ACCEPTABLE QTY Accept no dense 3 2 0 3 3	2.5
05	Scratches	Follow no. 3 OLED black spots,	white spots, contami	nation		
06	Chipped glass	Symbols: x: chip length k: seal width I: electrode pad length 6.1 General glass chip: 6.1.1 Chip on panel surface an k k k k kz : chip thickness $z \le 1/2$ t $1/2$ t $< z \le 2$ t Note • If there are 2 or more chips,	y: chip width t: glass thickness d crack between pane y y z y: chip width Not over viewing a Not exceed 1/3 k	els: $x \rightarrow y \rightarrow z$ area	z: chip thickness a: OLED side length y x x chip length $x \le 1/8$ a $x \le 1/8$ a	2.5

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NO	PECTION SPEC	FICATION			
NO.	ITEM		CRITERION		AQL
06	Chipped glass	6.1.2 Corner crack: z: chip thickness $z \le 1/2 t$ $1/2 t < z \le 2 t$ Note • If there are 2 or more chips, x	y: chip width Not over viewing area Not exceed 1/3 k	x: chip length $x \le 1/8$ a $x \le 1/8$ a	2.5
06	Glass crack	Symbols: x: chip length k: seal width l: electrode pad length 6.2 Protrusion over terminal: 6.2.1 Chip on electrode pad: y: chip width $y \le 0.5 \text{ mm}$ 6.2.2 Non-conductive portion: y	y: chip width t: glass thickness x: chip length $x \le 1/8$ a	z: chip thickness a: OLED side length z z z $z \le t$	2.5
		y: chip width $y \le 1$	x: chip length $x \le 1/8 a$	z: chip thickness 0 < z ≤ t	
		y ≤ I Notes • If the chipped area touches t according to electrode termin	$x \le 1/8$ a he ITO terminal, over 2/3 of the ITO must al specifications led by the customer, the alignment mark r	z: chip thickness $0 < z \le t$ remain and be inspected	

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INSPECTION SPECIFICATION				
NO.	ITEM	CRITERION	AQL	
08	Backlight elements	8.1 Illumination source flickers when lit	0.65	
		8.2 Spots or scratched that appear when lit must be judged. Using OLED spot, lines and contamination standards	2.5	
		8.3 Backlight does not 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	0.65	
10	PCB, COB	10.1 COB seal may not have pinholes larger than 0.2 mm or contamination	2.5	
		10.2 COB seal surface may not have pinholes through to the IC	2.5	
		10.3 The height of the COB should not exceed the height indicated in the assembly diagram	0.65	
		10.4 There may not be more than 2 mm of sealant outside the seal area on the PCB. And there should be no more than three places	2.5	
		10.5 No oxidation or contamination PCB terminals	2.5	
		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	0.65	
		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 screw hold pad, make sure it is smoothed down	2.5	
11	Soldering	11.1 No un-melted solder paste may be present on the PCB	2.5	
		11.2 No cold solder joints, missing solder connections, oxidation or icicle	2.5	
		11.3 No residue or solder balls on PCB	2.5	
		11.4 No short circuits in components on PCB	0.65	
12	General appearance	12.1 No oxidation, contamination, curves or, bends on interface pin (OLB) of TCP	2.5	
		12.2 No cracks on interface pin (OLB) of TCP	0.65	
		12.3 No contamination, solder residue or solder balls on product	2.5	
		12.4 The IC on the TCP may not be damaged, circuits	2.5	
		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	
		12.6 The residual rosin or tin oil of soldering (component or chip component) is not burned into brown or black color	2.5	
		12.7 Sealant on top of the ITO circuit has not hardened	2.5	
		12.8 Pin type must match type in specification sheet	0.65	
		12.9 OLED pin loose or missing pins	0.65	
		12.10 Product packaging must the same as specified on packaging specification sheet	0.65	
		12.11 Product dimension and structure must conform to product specification sheet	0.65	



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CLASSIFICATION	CRITERIA
Major	
Major	
Major	
Major	
Major	
Major	
	A Normal B Dark pixel C Light pixel
	Major Major Major Major Major

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PRECAUTIONS IN USE OF OLED MODULES

MODULES

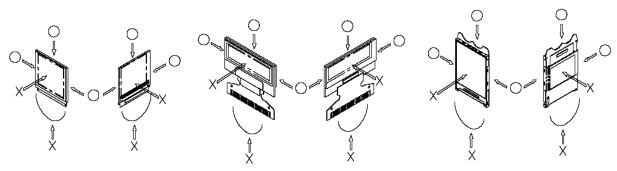
- 1. Avoid applying excessive shocks to module or making any alterations or modifications to it
- 2. Do not make extra holes on the printed circuit board, modify its shape or change the components of OLED display module
- 3. Do not disassemble the OLED display module
- 4. Do not operate it above the absolute maximum rating
- 5. Do not 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 is pretty common to use "screen saver" to extend the lifetime and do not use fix information for long time in real application
- 9. Do not use fixed information in OLED panel for long time, that will extend "screen burn" effect time
- 10. Vishay has the right to change the passive components, including R2 and R3 adjust resistors. (Resistors, capacitors, and other passive components will have different appearance and color caused by the different supplier)
- 11. Vishay 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, Vishay have the right to modify the version)

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 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. 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



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- 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 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 no. 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

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 Vishay. 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

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
- To prevent occurrence of malfunctioning by noise, pay attention to satisfy the V_{IL} and V_{IH} 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 (V_{DD}) (recommend value: 0.5 A)
- 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

PRECAUTIONS WHEN DISPOSING OF THE OLED DISPLAY MODULES

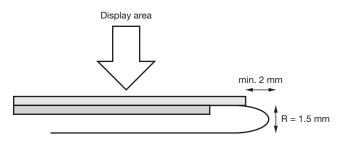
1. Request the qualified companies to handle industrial wastes when disposing of the OLED display modules. Or, when burning them, be sure to observe the environmental and hygienic laws and regulations

OTHER PRECAUTIONS

- 1. When an OLED display module is operated for a long of time with fixed pattern may remain as an after image or slight contrast deviation may occur. Nonetheless, if the operation is interrupted and left unused for a while, normal state can be restored. Also, there will be no problem in the reliability of the module
- 2. To protect OLED display modules from performance drops by static electricity rapture, etc., do not touch the following sections whenever possible while handling the OLED display modules
 - Pins and electrodes
 - Pattern layouts such as the TCP and FPC
- 3. With this OLED display module, the OLED driver is being exposed. Generally speaking, semiconductor elements change their characteristics when light is radiated according to the principle of the solar battery. Consequently, if this OLED driver is exposed to light, malfunctioning may occur
 - Design the product and installation method so that the OLED driver may be shielded from light in actual usage
 - Design the product and installation method so that the OLED driver may be shielded from light during the inspection processes



- 4. Although this OLED display module stores the operation state data by the commands and the indication data, when excessive external noise, etc. enters into the module, the internal status may be changed. It therefore is necessary to take appropriate measures to suppress noise generation or to protect from influences of noise on the system design
- 5. We recommend you to construct its software 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
- 6. Resistors, capacitors, and other passive components will have different appearance and color caused by the different supplier
- 7. Our company will has the right to upgrade and modify the product function
- 8. The limitation of FPC bending





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