

MECHANICAL DATA

Module dimension

Viewing area

Active area

Dot size

Dot pitch

Mounting hole

ITEM

Vishay

128 x 64 Graphic OLED



 \bigcirc

UNIT

mm

STANDARD VALUE

75.0 x 52.7 x 8.5

57.01 x 29.49

55.01 x 27.49

0.40 x 0.40

0.43 x 0.43

n/a

- Type: graphic
- Display format: 128 x 64 dots
- Built-in controller: SSD1309Z
- Duty cycle: 1/64
- +3 V power supply
- Interface: 6800, option 8080 and SPI
- With polarizer
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS									
ITEM	SYMBOL	STANDAF	RD VALUE	UNIT					
	STIVIDUL	MIN.	MAX.	UNIT					
Supply voltage for logic	V_{DD}	-0.3	4	V					
Operating temperature	T _{OP}	-40	+80	°℃					
Storage temperature	T _{STG}	-40	+80	C					

Note

 Maximum ratings are those values beyond which damages to the device may occur. Functional operation should be restricted to the limits in the Electrical Characteristics tables or Pin Description section. This device may be light sensitive. Caution should be taken to avoid exposure of this device to any light source during normal operation. This device is not radiation protected

ELECTRICAL CHARACTERISTICS								
ITEM	SYMBOL	CONDITION	ST	ANDARD VAL	UE			
ITEM	SYMBOL CONDITION	CONDITION	MIN.	TYP.	MAX.	UNIT		
Supply voltage for logic	V _{DD}	-	2.8	3.0	3.3			
Input high voltage	V _{IH}	-	0.8 V _{DD}	-	-			
Input low voltage	VIL	-	-	-	0.2 V _{DD}	V		
Output high voltage	V _{OH}	-	0.9 V _{DD}	-	-			
Output low voltage	V _{OL}	-	-	-	0.1 V _{DD}			
50 % check board operating current	I _{DD}	$V_{DD} = 3.0 V$	130	135	150	mA		

EMITTING COLOR						

INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{DD}	Power supply pin for core logic operation			

Revision: 29-Jun-17

1 For technical questions, contact: <u>displays@vishay.com</u> Document Number: 37917



ROHS COMPLIANT

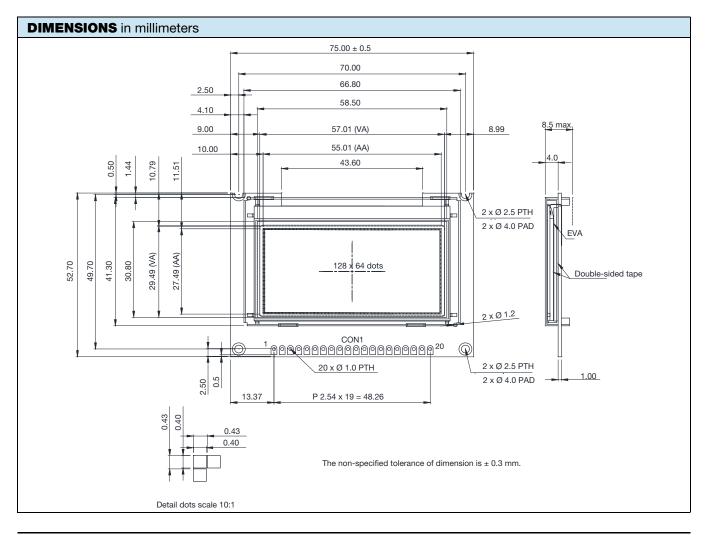
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INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
2	V _{SS}	Ground				
3	NC	No connection				
4 to 11	D0 to D7	Data bus				
12	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled "low" (active "low").				
13	NC	No connection				
14	RES	This pin is reset signal input. When the pin is pulled "low", initialization of the chip is executed. Keep this pin pull "high" during normal operation.				
15	R/W	This pin is read / write control input pin connecting to the MCU interface. When 8080 interface mode is selected, this pin is pulled "low" and the chip is selected				
16	D/C	This pin is data / command control pin connecting to the MCU.				
17	E	This pin is MCU interface input. When 8080 interface mode is selected, this pin is pulled "low" and the chip is selected				
18	NC	No connection				
19	DISP	Display off				
20	NC	No connection				

Note

• 80 Series Interface is default



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1.Module Classification Information

<u>OLED 128 O 064 J G P P 3 N 0 0 000</u>

0	Ø	٩	❹	5	Ô	Ō	ð	9	10	11	(12)	13
1	Brand: Vis	Brand: Vishay Intertechnology, Inc.										
2	Horizontal F	Horizontal Format: 128 Columns										
3	Display Typ	Display Type: N \rightarrow Character Type, H \rightarrow Graphic Type, Y \rightarrow Tab Type, O \rightarrow Cog Type										
4	Vertical For	rmat: 64	Lines									
5	Serials cod	е										
			А	: Amb	er			R	: RE	D		
6	Emitting Co	olor	В	: Blue	•			N	/ : Wł	nite		
			G	: Gree	en			L	: Yell	ow		
7	Polarizer		Р	: With	Polar	rizer; I	N: Wit	hout F	Polariz	zer		
8	Display M	lode	Р	: Pass	sive M	latrix ;	A: Ac	tive N	latrix			
9	Driver Volta	age	3:	3.0 V;	; 5: 5.0)V						
10	Touch Pane	əl	Ν	: With	out to	uch p	anel;	T: Witl	h touc	h par	nel	
11	Products ty	pe	1. 2. 3.	 0 : Standard type 1. Sunlight Readable type 2. Transparent OLED (TOLED) 3. Flexible OLED 4. OLED for Lighting 								
12	Product	grades	0 2 3 4 5	Product grades: 0 : Standard(A-level) 2 : B-level 3 : C-level 4 : high class(AA-level) 5 : Customer offerings								
13	Serial No.		Ap	plicat	ion se	rial nu	umber	(000~	ZZZ)			

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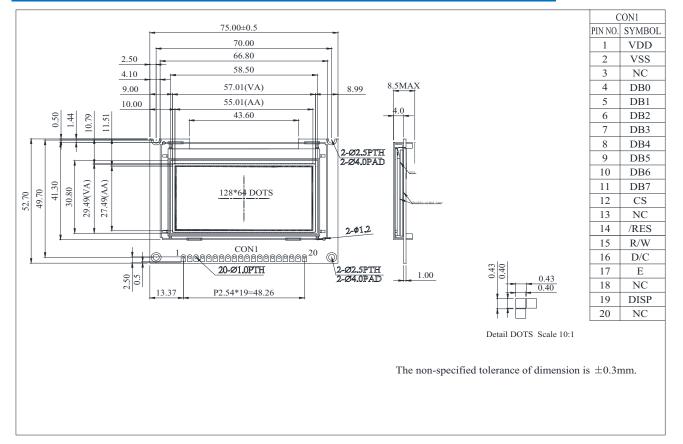


2.General Specification

ltem	Dimension	Unit		
Dot Matrix	128 x 64	_		
Module dimension	75.0 × 52.7 × 8.5	mm		
Active Area	55.01 × 27.49	mm		
Pixel Size	0.40 × 0.40	mm		
Pixel Pitch	0.43 × 0.43	mm		
Display Mode	Passive Matrix			
Display Color	Monochrome (Green)			
Drive Duty	1/64 Duty			

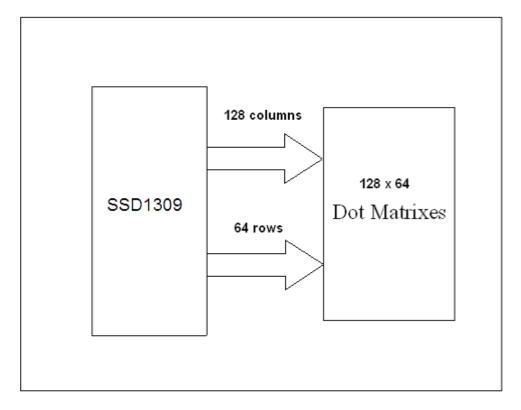


3. Contour Drawing & Block Diagram





FUNCTION BLOCK DIAGRAM



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



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4. Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply pin for core logic operation.
2	VSS	Ground.
3	NC	No connection
4~11	D0~D7	Data bus.
12	CS	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).
13	NC	No connection
14	/RES	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.
15	R/W	This pin is read / write control input pin connecting to the MCU interface. When 8080 interface mode is selected,this pin is pulled LOW and the chip is selected
16	D/C	This pin is Data/Command control pin connecting to the MCU.
17	Е	This pin is MCU interface input. When 8080 interface mode is selected, this pin is pulled LOW and the chip is selected
18	NC	No connection
19	DISP	Display off
20	NC	No connection

* 80 Series Interface is default



5.Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	4	V	
Operating Temperature	TOP	-40	+80	°C	-
Storage Temperature	TSTG	-40	+80	°C	-

Maximum ratings are those values beyond which damages to the device may occur. Functional operation should be restricted to the limits in the Electrical Characteristics tables or Pin Description section.

This device may be light sensitive. Caution should be taken to avoid exposure of this device to any light source during normal operation. This device is not radiation protected.



6.Electrical Characteristics

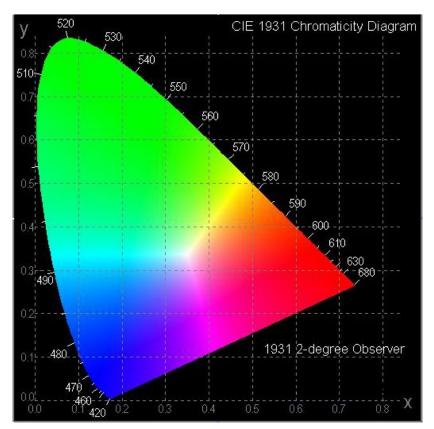
ltem	Symbol	Condition	Min	Тур	Мах	Unit
Supply Voltage for Logic	VDD	_	2.8	3.0	3.3	V
High Level Input	VIH	—	0.8×VDD	_	—	V
Low Level Input	VIL	—	—	—	0.2×VDD	V
High Level Output	VOH	—	0.9×VDD	—	—	V
Low Level Output	VOL	—	—	—	0.1×VDD	V
50% Check Board operating Current	IDD	VDD =3.0V	130	135	150	mA





7.Optical Characteristics

ltem	Symbol	Condition	Min	Тур	Max	Unit
	θ(V)		160			deg
View Angle	(H)φ		160			deg
Contrast Ratio	CR	Dark	2000:1			_
Posponso Timo	T rise	-		10		μs
Response Time	T fall	-		10		μs
Display with 50% chec	k Board Bri	ghtness	80	100		cd/m2
CIEx(Green)		(CIE1931)	0.24	0.28	0.32	
CIEy(Green)		(CIE1931)	0.59	0.63	0.67	







8.OLED Lifetime

ITEM	Conditions	Min	Тур	Remark
Operating Life Time	Ta=25℃ / 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 °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 ℃ 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 Cycle Endurance test applying the low and high temperature cycle. -40 -40 -30min 5min 30min 1 cycle		-40 ℃ ⁄80°C 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			
Shock test	Constructional and mechanical endurance test applying the shock during transportation.	50G Half sin wave 11 ms 3 times of each direction			
Atmospheric pressure test	Endurance test applying the atmospheric pressure during transportation by air.	115mbar 40hrs			
Others					
Static electricity test	Endurance test applying the electric stress to the terminal.	VS=±600V(contact) ±800v(air), RS=330Ω CS=150pF 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

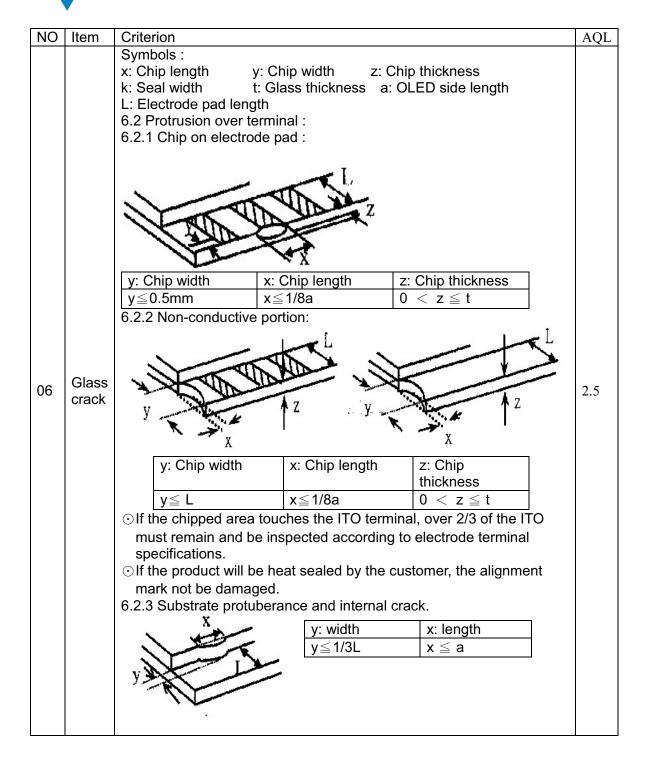
NO	Item	Criterion			AQL		
01	Electrical Testing	 1.1 Missing vertical, horizontal segment, segment contrast defect. 1.2 Missing character , dot or icon. 1.3 Display malfunction. 1.4 No function or no display. 1.5 Current consumption exceeds product specifications. 1.6 OLED viewing angle defect. 1.7 Mixed 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			
03	OLED black spots, white spots, contamina tion (non-displ ay)	3.1 Round type following drawing $\Phi=(x+y)/2$			SIZE $\Phi \le 0.10$ $0.10 <$ $\phi \le 0.20$ $0.20 <$ $\Phi \le 0.25$ $0.25 < \Phi$	Acceptable Q TY Accept no dense 2 1 0	2.5
		3.2 Line type : (A	As followin Length L ≤ 3.0 L ≤ 2.5 	Wie W ≦ 0.0 0.0		Acceptable Q TY Accept no dense 2 As round type	2.5
04	Polarizer bubbles	If bubbles are vis judge using blac specifications, n to find, must che specify direction	k spot ot easy eck in	Φ 0.2 0.5	$e \Phi$ ≤ 0.20 $e 0 < \Phi \le 0.50$ $= 0 < \Phi \le 1.00$ $= 0 < \Phi$ = 100 $= 0 < \Phi$ = 100 $= 0 < \Phi$	Acceptable Q TY Accept no dense 3 2 0 3	2.5

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NO	Item	Criterion			AQL	
05	Scratches	Follow NO.3 OLED black spots, white spots, contamination				
			t: Glass thickness a	Chip thickness : OLED side length		
		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		
06	Chipped	Z≦1/2t	Not over viewing area	x≦1/8a	2.5	
00	glass	$1/2t < z \le 2t$	Not exceed 1/3k	x≦1/8a	2.3	
		6.1.2 Corner crack: x + z z: Chip thickness $Z \le 1/2t$ $1/2t < z \le 2t$	y: Chip width Not over viewing area Not exceed 1/3k	$\begin{array}{c} x: Chip \ length \\ x \leq 1/8a \\ x \leq 1/8a \end{array}$		
		\odot If there are 2 or mo	ore chips, x is the tota	I length of each chip.		

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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 2.5 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



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NO	Item	Criterion	AQL
		 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 	2.5 0.65 2.5
		product.	2.5
		12.4 The IC on the TCP may not be damaged, circuits. 12.5 The uppermost edge of the protective strip on the	2.5
4.0	General	interface pin must be present or look as if it cause the interface pin to sever.	2.5
12	appearance	12.6 The residual rosin or tin oil of soldering (component or	2.5
		chip component) is not burned into brown or black color.	0.65 0.65
		12.7 Sealant on top of the ITO circuit has not hardened. 12.8 Pin type must match type in specification sheet.	0.65
		12.9 OLED pin loose or missing pins.	0.00
		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.	



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 Pizel C Hite Light Fizel



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, 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) Vishay 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) 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.)

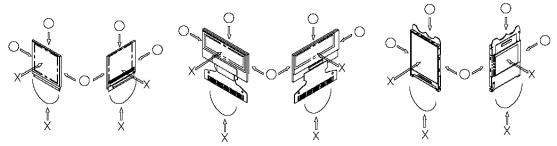
11.1. Handling Precautions

- (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
 - 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.



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(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 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.

(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 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.

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.

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.

11.5. 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 & 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.



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 REC001601BBPP5N00100
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 REG010016FGPP5N00100
 REG010016FWP5N00100
 REG010032AWPP5N00100

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 REA160128AYPP3N00000
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 REX012864CWAP3N00001

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 REG010016FYPP5N00100
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 19299

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 REG010016CGPP5N00100
 REG010016CYPP5N00100
 REG010016DGPP5N00100
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 REG010016EYPP5N00100
 REG010016CGPP5N00100
 REG010016DGPP5N00100
 REG010016DGPP5N00100

 REG010016EYPP5N00100
 REG010016CGPP5N00100
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 10444
 13992
 14657
 10514
 21432
 9085
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 REG010008AWPP5N00000
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