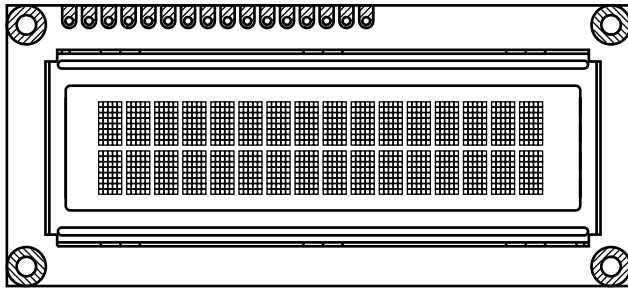


## 16 x 2 Character OLED



### FEATURES

- Type: Character
- Display format: 16 x 2 characters
- Built-in controller: OLED-0010
- Duty cycle: 1/16
- +5 V power supply, +3 V optional
- Interface: 6800, option 8080 and SPI
- Sunlight readable and polarizer optional
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module dimension	80.0 x 36.0 x 10.0 (max.)	mm
Viewing area	66.0 x 16.0	
Active area	56.95 x 11.85	
Dot size	0.55 x 0.65	
Dot pitch	0.60 x 0.70	
Mounting hole	75.0 x 31.0	
Character size	2.95 x 5.55	
Character pitch	3.6 x 6.3	

ABSOLUTE MAXIMUM RATINGS				
ITEM	SYMBOL	STANDARD VALUE		UNIT
		MIN.	MAX.	
Supply voltage for logic	$V_{DD}$ to $V_{SS}$	-0.3	5.3	V
Input voltage	$V_I$	-0.3	$V_{DD}$	

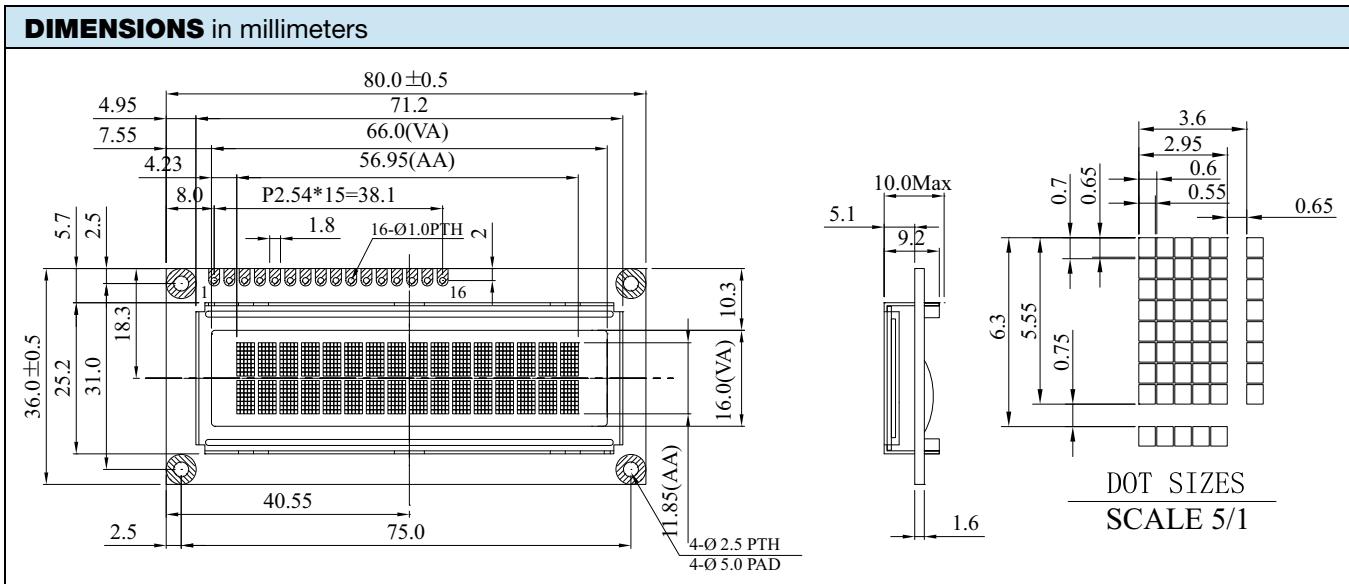
#### Note

- $V_{SS} = 0$  V,  $V_{DD} = 3.0$  V/5.0 V

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Supply voltage for logic	$V_{DD}$ to $V_{SS}$	-	3.0	5.0	5.3	V
Input high voltage	$V_{IH}$	-	$0.9 V_{DD}$	-	$V_{DD}$	V
Input low voltage	$V_{IL}$	-	GND	-	$0.1 V_{DD}$	V
Output high voltage	$V_{OH}$	$I_{OH} = 0.5$ mA	$0.8 V_{DD}$	-	$V_{DD}$	V
Output low voltage	$V_{OL}$	$I_{OL} = 0.5$ mA	GND	-	$0.2 V_{DD}$	V
Supply current	$I_{DD}$	$V_{DD} = 5$ V	-	30	-	mA

OPTIONS									
EMITTING COLOR					MOQ				
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	Y	Y	Y	Y	N	N	N	N	N

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	V <sub>SS</sub>	Ground
2	V <sub>DD</sub>	Supply voltage for logic
3	NC	No connection
4	RS	H: Data; L: Instruction code
5	R $\bar{W}$	H: Read (MPU ← Module); L: Write (MPU → Module)
6	E	H → L enable signal
7	DB0	Data bit 0
8	DB1	Data bit 1
9	DB2	Data bit 2
10	DB3	Data bit 3
11	DB4	Data bit 4
12	DB5	Data bit 5
13	DB6	Data bit 6
14	DB7	Data bit 7
15	NC	No connection
16	NC	No connection





## **Disclaimer**

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. 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. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.