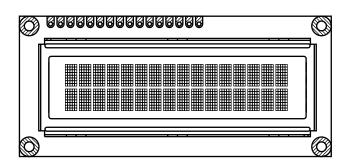


**RoHS** 

COMPLIANT



### 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 <a href="www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	80.0 x 36.0 x 10.0 (max.)				
Viewing area	66.0 x 16.0				
Active area	56.95 x 11.85				
Dot size	0.55 x 0.65	mm			
Dot pitch	0.60 x 0.70	mm			
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	STANDAF	UNIT		
IIEWI	STINIBUL	MIN.	MAX.	UNII	
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-0.3	5.3	V	
Input voltage	VI	-0.3	$V_{DD}$		

#### Note

•  $V_{SS} = 0 \text{ V}, V_{DD} = 3.0 \text{ V}/5.0 \text{ V}$ 

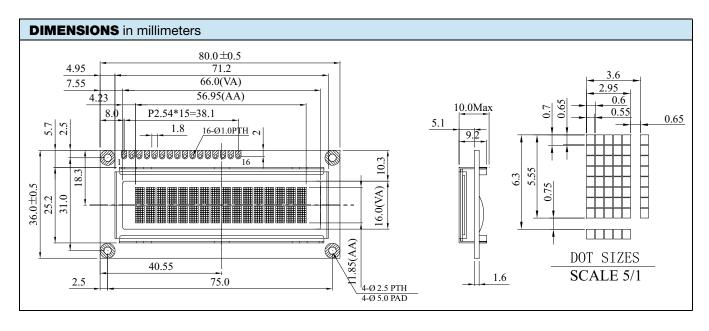
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
	STIVIBOL	CONDITION	MIN.	TYP.	MAX.	UNII
Supply voltage for logic	V <sub>DD</sub> to V <sub>SS</sub>	-	3.0	5.0	5.3	V
Input high voltage	V <sub>IH</sub>	-	0.9 V <sub>DD</sub>	-	$V_{DD}$	V
Input low voltage	V <sub>IL</sub>	-	GND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

OPTIONS	S								
	EMITTING COLOR						MOQ		
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Υ	Υ	Υ	Υ	Υ	N	N	N	N	N



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INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	V <sub>SS</sub>	Ground		
2	$V_{DD}$	Supply voltage for logic		
3	NC	No connection		
4	RS	H: Data; L: Instruction code		
5	R/W	H: Read (MPU $\leftarrow$ Module); L: Write (MPU $\rightarrow$ Module)		
6	E	$H \rightarrow L$ 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		





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