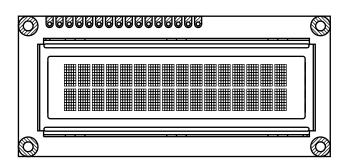
RoHS

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 www.vishay.com/doc?99912

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 _{DD} to V _{SS}	-0.3	5.3	V	
Input voltage	VI	-0.3	V_{DD}		

Note

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

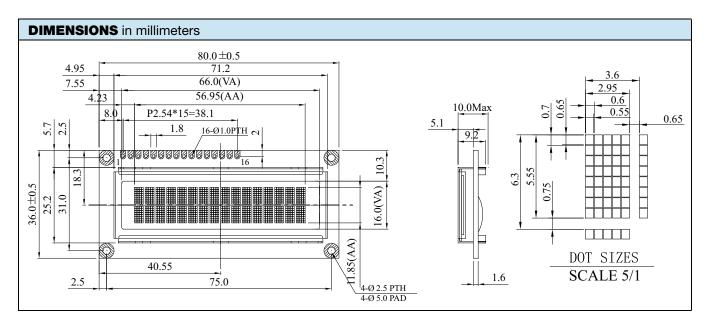
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
II EWI	STWIBOL	CONDITION	MIN.	TYP.	MAX.	UNII
Supply voltage for logic	V _{DD} to V _{SS}	-	3.0	5.0	5.3	V
Input high voltage	V _{IH}	-	0.9 V _{DD}	-	V_{DD}	V
Input low voltage	V _{IL}	-	GND	-	0.1 V _{DD}	V
Output high voltage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

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



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INTERFACE F	INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	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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Vishay

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