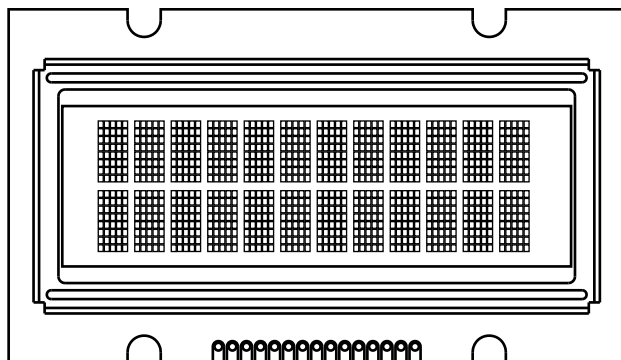


# 12 x 2 Character OLED



## FEATURES

- Type: Character
- Display format: 12 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	55.7 x 32.0 x 11.0 (max.)	mm
Viewing area	46.0 x 14.5	
Active area	38.95 x 11.80	
Dot size	0.45 x 0.60	
Dot pitch	0.55 x 0.70	
Mounting hole	31.2 x 30.0	
Character size	2.65 x 5.5	
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

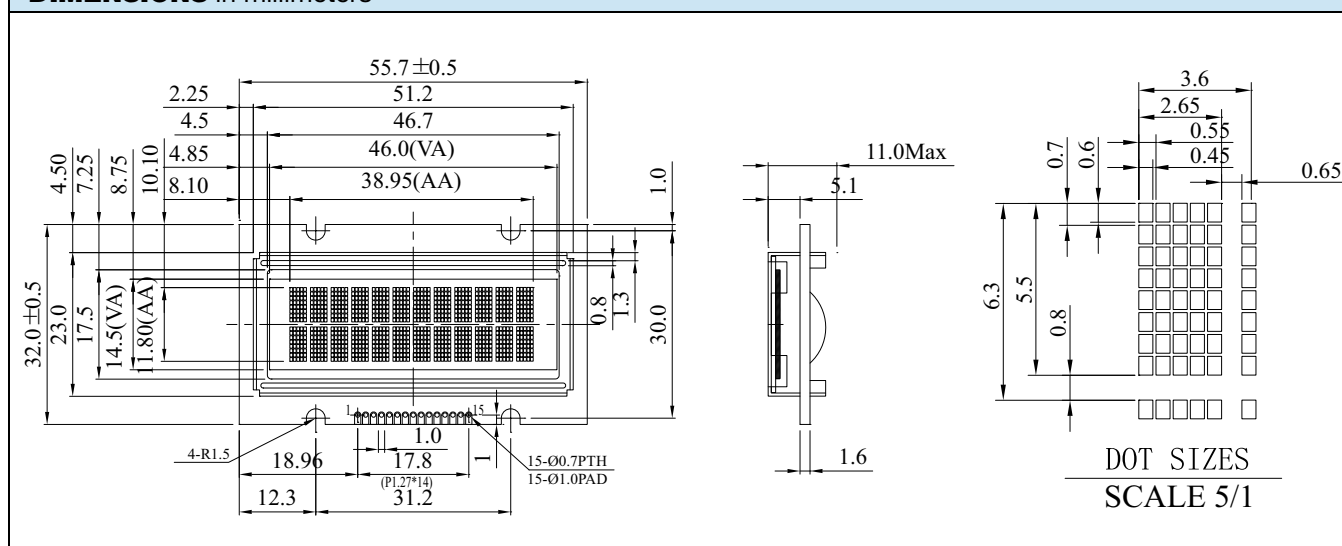
- $V_{SS} = 0$  V,  $V_{DD} = 3.0$  V/5.0 V

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	-	32	-	mA

OPTIONS									
EMITTING COLOR					MOQ				
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	-	-	-	-	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/ $\overline{W}$	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

**DIMENSIONS** in millimeters



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