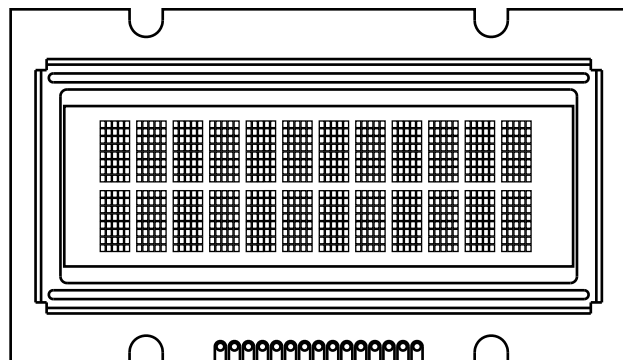


12 x 2 Character OLED



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


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

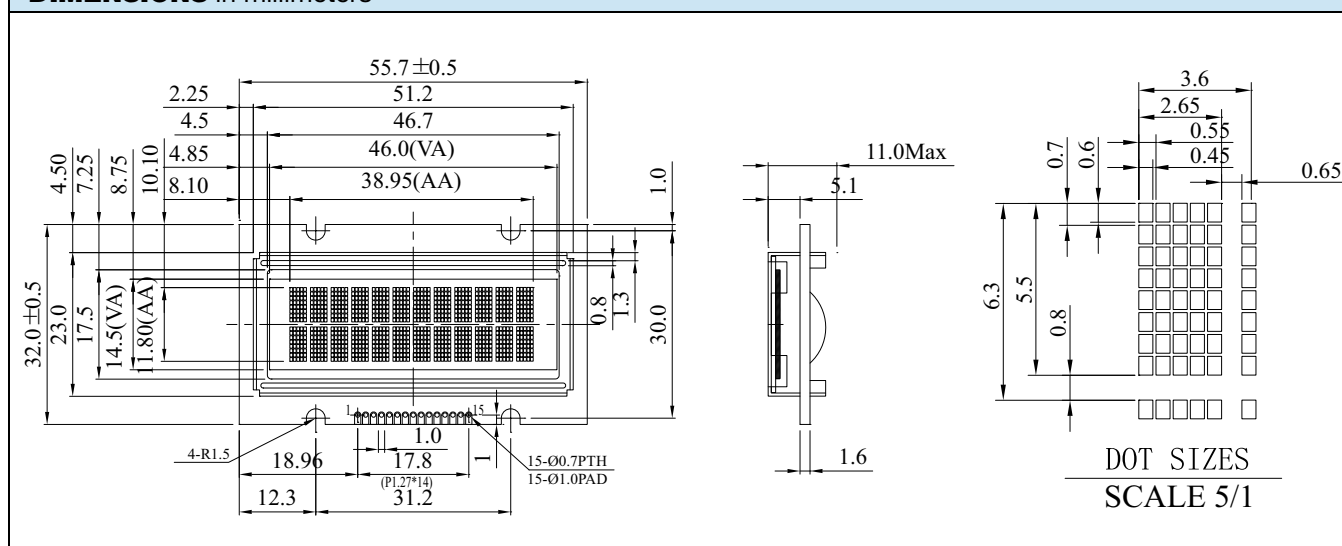
- $V_{SS} = 0$ V, $V_{DD} = 3.0$ V/5.0 V

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 _{SS}	Ground
2	V _{DD}	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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<u>O012N002ALPP5N0000</u>	<u>O100H016ALPP5N0000</u>	<u>O100H032BBPP5N0000</u>	<u>O016N002BLPP5N000A</u>
<u>O020N002ABPP5N0000</u>	<u>O040N002ASPP5N0000</u>	<u>O076H016AWPP5N0000</u>	<u>O016N002HBPP5N0000</u>
<u>O020N002ALPP5N000A</u>	<u>O100H016ABPP5N0000</u>	<u>O100H016CRPP5N0000</u>	<u>O016N001ALPP5N0000</u>
<u>O040N002ALPP5N0000</u>	<u>O040N002AWPP5N0000</u>	<u>O020N002AGPP5N000A</u>	<u>O100H016EWPP5N0000</u>
<u>O100H016CBPP5N0000</u>	<u>O100H016AGPP5N0000</u>	<u>O100H016HGPP5N0000</u>	<u>O016N002HLPP5N0000</u>
<u>O100H032BLPP5N0000</u>	<u>O016N001AGPP5N0000</u>	<u>O016N002HRPP5N0000</u>	<u>O076H016ARPP5N0000</u>
<u>O016N002HWPP5N0000</u>	<u>O016N002DGPP5N0000</u>	<u>O016N002HGPP5N0000</u>	<u>O016N002BWPP5N0000</u>
<u>O020N002GLPP5N0000</u>	<u>O016N001AWPP5N0000</u>	<u>O076H016ABPP5N0000</u>	<u>O016N001ARPP5N0000</u>
<u>O100H016EBPP5N0000</u>	<u>O020N004AWPP5N0000</u>	<u>O020N002AWPP5N0000</u>	<u>O040N002AGPP5N0000</u>
<u>O100H032BRPP5N0000</u>	<u>O020N004ABPP5N0000</u>	<u>O016N002DWPP5N0000</u>	<u>O020N002ARPP5N0000</u>
<u>O016N001ABPP5N0000</u>	<u>O100H016CWPP5N0000</u>	<u>O100H016ARPP5N0000</u>	<u>O100H016CGPP5N0000</u>
<u>O020N004ARPP5N0000</u>	<u>O020N004AGPP5N0000</u>	<u>O100H032BGPP5N0000</u>	<u>O100H016CLPP5N0000</u>
<u>O016N002DRPP5N0000</u>	<u>O100H016EGPP5N0000</u>	<u>O016N002DBPP5N0000</u>	<u>O100H016AWPP5N0000</u>
<u>O076H016ALPP5N0000</u>	<u>O020N002WLPP5N0000</u>	<u>O016N002BRPP5N0000</u>	<u>O100H016HLPP5N0000</u>
<u>O016N002BBPP5N0000</u>	<u>O016N002DLPP5N0000</u>	<u>O076H016AGPP5N0000</u>	<u>O100H016ERPP5N0000</u>
<u>O020N004ALPP5N0000</u>	<u>O100H016ELPP5N0000</u>	<u>O016N002BGPPN000A</u>	<u>O100H032BWPP5N0000</u>