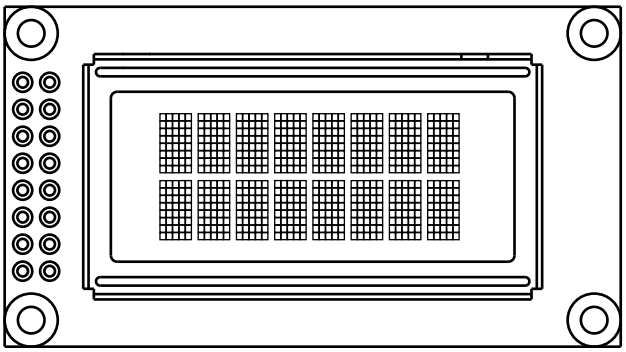
# 8 x 2 Character OLED



## FEATURES

- Type: Character
- Display format: 8 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

Pb-free

RoHS COMPLIANT

## MECHANICAL DATA

| ITEM | STANDARD VALUE | UNIT |
|---|---|---|
| Module dimension | 58.0 x 32.0 x 10.0 (max.) | mm |
| Viewing area | 38.0 x 16.0 | |
| Active area | 28.16 x 11.86 | |
| Dot size | 0.56 x 0.66 | |
| Dot pitch | 0.60 x 0.70 | |
| Mounting hole | 53.0 x 27.0 | |
| Character size | 2.96 x 5.56 | |
| 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 | - | 16 | - | mA |

## OPTIONS

| EMITTING COLOR | | | | | MOQ | | | | |
|---|---|---|---|---|---|---|---|---|---|
| YELLOW | GREEN | RED | BLUE | WHITE | YELLOW | GREEN | RED | BLUE | WHITE |
| Y | Y | Y | Y | Y | N | Y | Y | Y | Y |

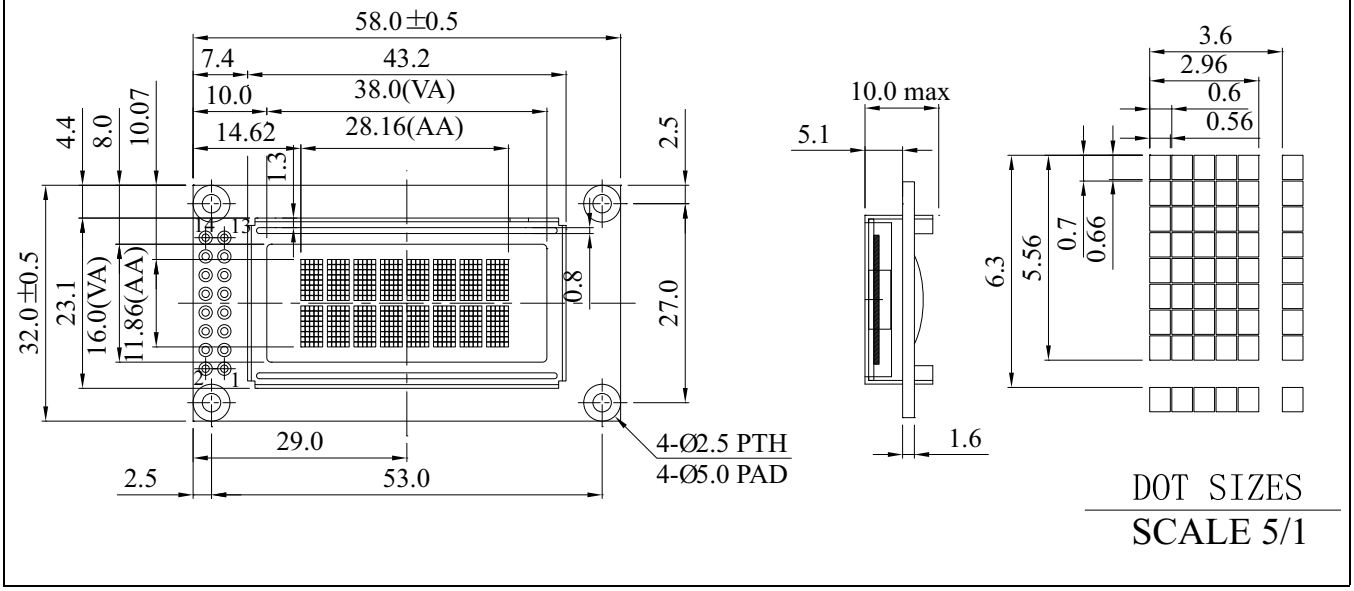


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| INTERFACE PIN FUNCTION | | |
|---|---|---|
| **PIN NO.** | **SYMBOL** | **FUNCTION** |
| 1 | $V_{SS}$ | Ground |
| 2 | $V_{DD}$ | Supply voltage for logic |
| 3 | NC | No connection |
| 4 | RS | H: Data; L: Instruction code |
| 5 | R/$\overline{W}$ | H: Read (MPU ← 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 |

**DIMENSIONS** in millimeters






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