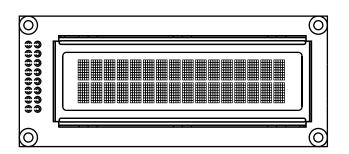
RoHS

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 | | | | | |
|---------------------------|---|--|--|--|--|
| STANDARD VALUE | UNIT | | | | |
| 85.0 x 36.0 x 10.0 (max.) | | | | | |
| 66.0 x 16.0 | | | | | |
| 56.95 x 11.85 | | | | | |
| 0.55 x 0.65 | mm | | | | |
| 0.60 x 0.70 | mm | | | | |
| 80.0 x 31.0 | | | | | |
| 2.95 x 5.55 | | | | | |
| 3.6 x 6.3 | | | | | |
| | STANDARD VALUE 85.0 x 36.0 x 10.0 (max.) 66.0 x 16.0 56.95 x 11.85 0.55 x 0.65 0.60 x 0.70 80.0 x 31.0 2.95 x 5.55 | | | | |

| 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 | ′ _I -0.3 V _{DD} | | | |

Note

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

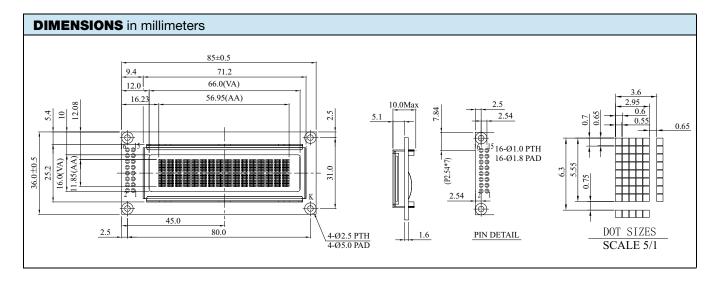
| ELECTRICAL CHARACTERISTICS | | | | | | |
|----------------------------|------------------------------------|--------------------------|---------------------|------|---------------------|------|
| ITEM | SYMPOL | SYMBOL CONDITION - | ST | UNIT | | |
| | STIVIBOL | | MIN. | TYP. | MAX. | UNII |
| Supply 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 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 | Υ | N | Υ | Υ | Y | Υ |



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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/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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