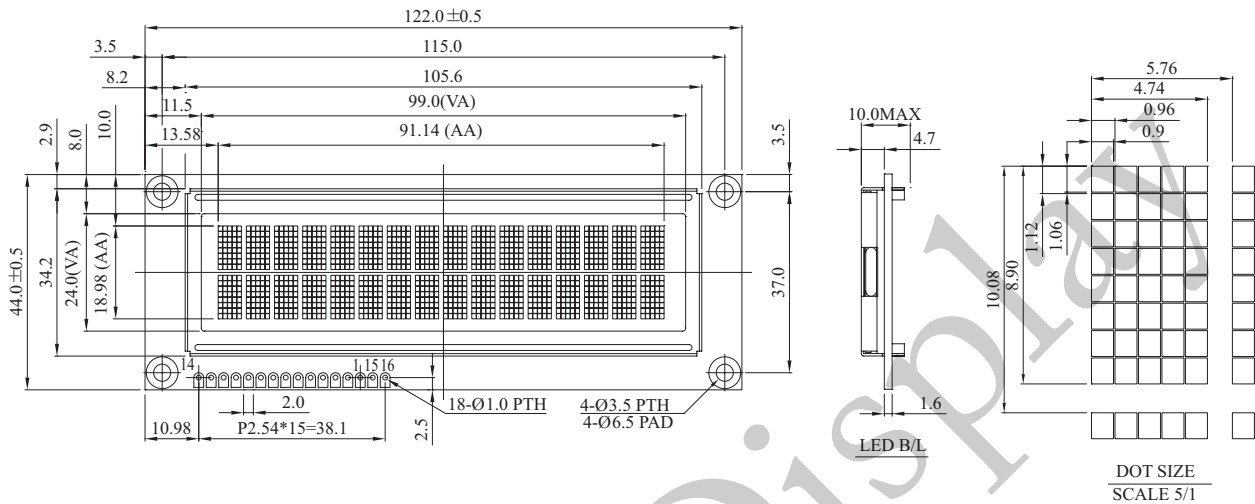


**WEH001602B** OLED Character 16x2

*Dimension drawing*



**Feature**

1. 16x2 dots includes cursor
2. Built-in Controller WS0010
3. +5V power supply, +3V optional
4. 1/16 duty cycle
5. Interface: 6800, option 8080 & SPI
6. Sunlight readable & polarizer optional

| Pin No. | Symbol | Description                                 |
|---------|--------|---|
| 1       | VSS    | Ground                                      |
| 2       | VDD    | Supply Voltage for logic                    |
| 3       | NC     |   |
| 4       | RS     | H: DATA, L: Instruction code                |
| 5       | R/W    | H: Read(MPU←Module)<br>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     |   |
| 16      | NC     |   |

**Mechanical Data**

| Item             | Dimension                | Unit |
|------------------|--------------------------|------|
| Module dimension | 122.0 x 44.0 x 10.0(MAX) | mm   |
| View area        | 99.0 x 24.0              | mm   |
| Active area      | 91.14 x 18.98            | mm   |
| Mounting hole    | 115.0 x 37.0             | mm   |
| Dot size         | 0.90 x 1.06              | mm   |
| Dot pitch        | 0.96 x 1.12              | mm   |
| Character size   | 4.74 x 8.90              | mm   |
| Character pitch  | 5.76 x 10.08             | mm   |

**Absolute Maximum Rating**

| Item                     | Symbol              | Min  | Max | Unit | Notes |
|--------------------------|---------------------|------|-----|------|-------|
| Input Voltage            | V <sub>I</sub>      | -0.3 | VDD | V    |       |
| Supply Voltage For Logic | VDD-V <sub>SS</sub> | -0.3 | 5.3 | V    |       |

**Electronical Characteristics**

| Item                     | Symbol          | Condition               | Min     | Typ | Max     | Unit |
|--------------------------|-----------------|-------------------------|---------|-----|---------|------|
| Supply Voltage For Logic | VDD-VSS         | -                       | 3.0     | 5.0 | 5.3     | V    |
| Input High Volt.         | V <sub>IH</sub> | -                       | 0.9 VDD | -   | VDD     | V    |
| Input Low Volt.          | V <sub>IL</sub> | -                       | GND     | -   | 0.1VDD  | V    |
| Output High Volt.        | V <sub>OH</sub> | I <sub>OH</sub> =-0.5mA | 0.8 VDD | -   | VDD     | V    |
| Output Low Volt.         | V <sub>OL</sub> | I <sub>OL</sub> =0.5mA  | GND     | -   | 0.2 VDD | V    |
| Supply Current           | I <sub>DD</sub> | VDD=5V                  | -       | 43  | -       | mA   |

OLED Character type