WINSTAR Display

# OLED SPECIFICATION

Model No:

***WEG10032x#APxN00100-FC***

WINSTAR DISPLAY CO., LTD

Represented by:

first FC components

FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)

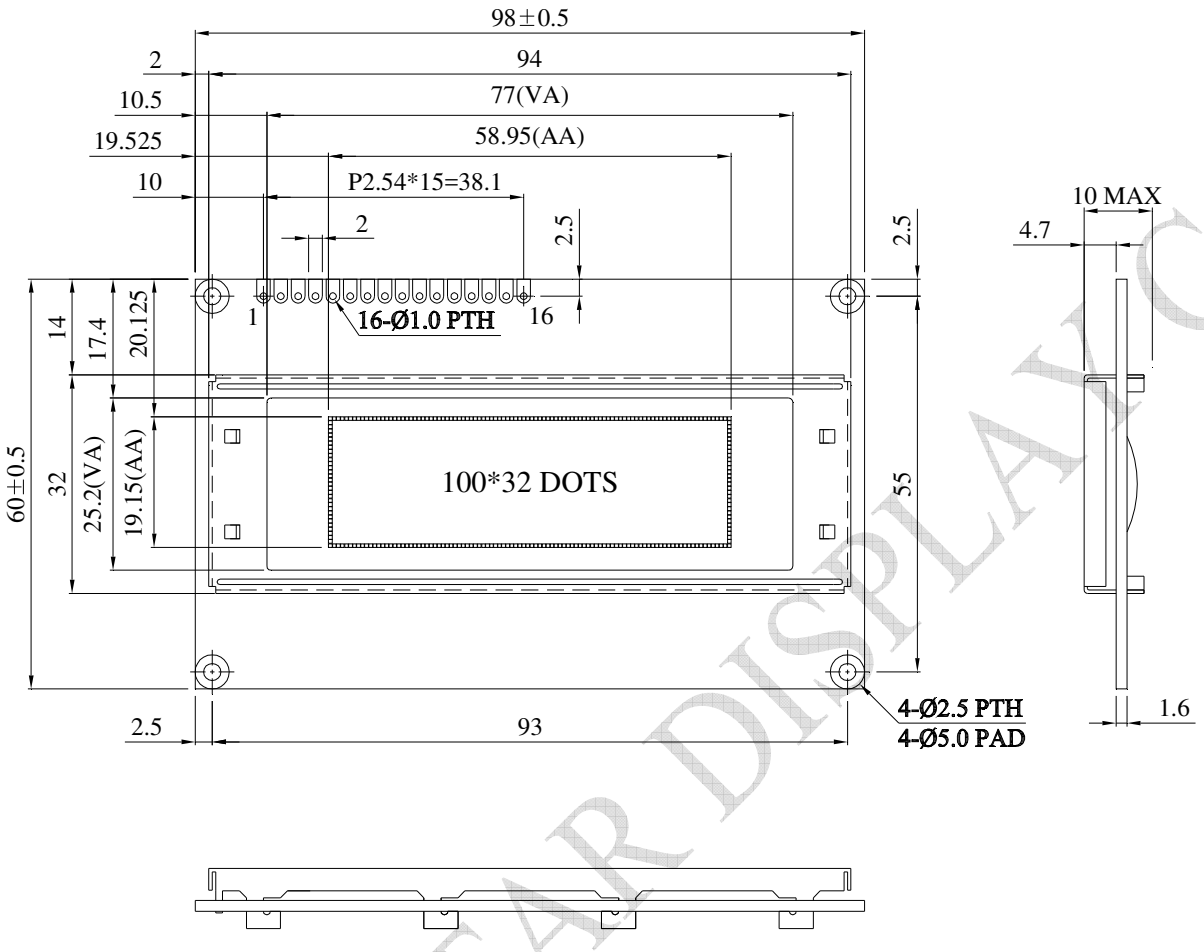
T. +39 0332 1888005 web: www.first-comnonents.com

# General Specification

| Item | Dimension | Unit |
|---|---|---|
| Dot Matrix | 100 x 32 Dots | — |
| Module dimension | 98.0 x 60.0 x 10.0(MAX) | mm |
| View area | 77.0 x 25.20 | mm |
| Active area | 58.95 x 19.15 | mm |
| Dot size | 0.54 x 0.55 | mm |
| Dot pitch | 0.59 x 0.60 | mm |
| Panel Type | OLED , Monochrome | |
| Duty | 1/16 | |
| IC | WS0010-TX | |
| Interface | 6800, option 8080, SPI | |
| Size | 2.44 inch | |

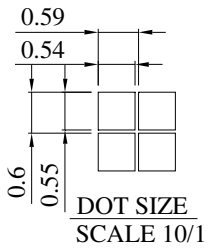
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# Contour Drawing & Block










| PIN NO. | SYMBOL |
|---|---|
| 1 | VSS |
| 2 | VDD |
| 3 | NC |
| 4 | RS |
| 5 | R/$\overline{W}$ |
| 6 | E |
| 7 | DB0 |
| 8 | DB1 |
| 9 | DB2 |
| 10 | DB3 |
| 11 | DB4 |
| 12 | DB5 |
| 13 | DB6 |
| 14 | DB7 |
| 15 | CS1 |
| 16 | CS2 |

The non-specified tolerance of dimension is ±0.3 mm .

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# Interface Pin Function

| Pin No. | Symbol | Level | Description |
|---|---|---|---|
| 1 | VSS | 0V | Ground |
| 2 | VDD | 5.0V | Supply Voltage for logic |
| 3 | NC | — | |
| 4 | RS | H/L | H: DATA, L: Instruction code |
| 5 | R/W | H/L | H: Read(Module→MPU) L: Write(MPU→Module) |
| 6 | E | H,H→L | Chip enable signal |
| 7 | DB0 | H/L | Data bit 0 |
| 8 | DB1 | H/L | Data bit 1 |
| 9 | DB2 | H/L | Data bit 2 |
| 10 | DB3 | H/L | Data bit 3 |
| 11 | DB4 | H/L | Data bit 4 |
| 12 | DB5 | H/L | Data bit 5 |
| 13 | DB6 | H/L | Data bit 6 |
| 14 | DB7 | H/L | Data bit 7 |
| 15 | CS1 | — | Chip1 select input pin |
| 16 | CS2 | — | Chip2 select input pin |

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# Absolute Maximum Ratings

| Item | Symbol | Min | Max | Unit |
|---|---|---|---|---|
| Operating Temperature | TOP | -40 | +80 | °C |
| Storage Temperature | TST | -40 | +85 | °C |
| Supply Voltage For Logic | VDD-VSS | -0.3 | 5.3 | V |

# Electrical Characteristics

## DC Electrical Characteristics

| Item | Symbol | Condition | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Supply Voltage For Logic | VDD-VSS | — | 4.8 | 5.0 | 5.3 | V |
| Input High Volt. | VIH | — | 0.8xVDD | — | VDD | V |
| Input Low Volt. | VIL | — | GND | — | 0.2xVDD | V |
| Output High Volt. | VOH | IOH=-0.5mA | 0.8xVDD | — | VDD | V |
| Output Low Volt. | VOL | IOL=0.5mA | GND | — | 0.2xVDD | V |
| 50% Check Board Operating Current | IDD | VDD=5V | — | 60 | 90 | mA |

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