BOLYMIN

# BC2004C

## Feature

1. COB with metal frame
2. 5x7 dots with cursor
3. Built-in controller ST7066 or equivalent
4. + 5V single power supply
5. 1/16 duty cycle
6. LED B/L pins: A/K, or 1/2
7. Option: LED array, EL B/L

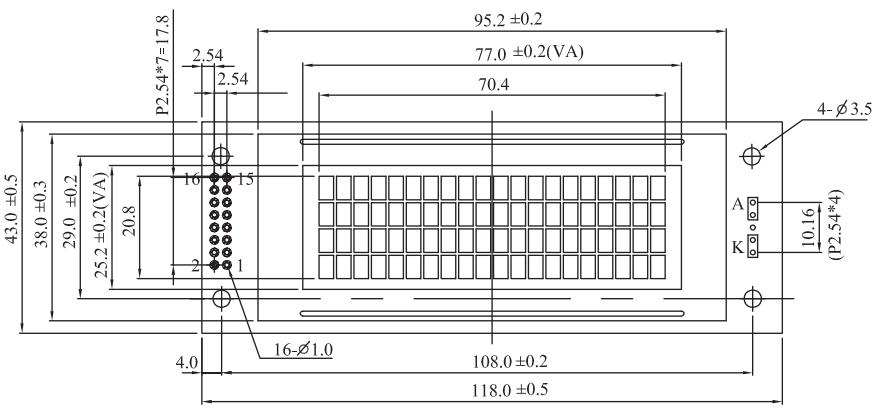
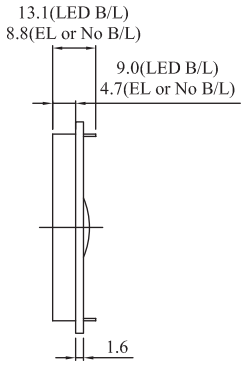
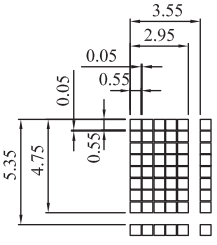
## Mechanical Data

| Item | Standard Value | Unit |
|---|---|---|
| Module Dimension | 118.0 x 43.0 | mm |
| Viewing Area | 77.0 x 25.2 | mm |
| Dot Size | 0.55 x 0.55 | mm |
| Character Size | 2.95 x 4.75 | mm |

## Pin Assignment

| Pin | Symbol | Function |
|---|---|---|
| 1 | Vss | GND |
| 2 | Vdd | +5V |
| 3 | Vo | Contrast adjustment |
| 4 | RS | H/L register select signal |
| 5 | R/W | H/L read/write signal |
| 6 | E | H --> L enable signal |
| 7~14 | DB0~7 | H/L data bus line |
| 15 | A | LED Power V+ |
| 16 | K | LED Power V- |

## Electronic Characteristics

| Item | Symbol | Condition | Typical Value | Unit |
|---|---|---|---|---|
| Input Voltage | Vdd | Vdd = +5V | 5.0 | V |
| Supply Current | Idd | Vdd = +5V | 1.6 | mA |
| LCD Driving Voltage | Vdd-Vo | 25°C | 4.5 | V |
| LED Forward Voltage (yellow-green) | Vf | 25°C | 4.2 | V |
| LED Forward Current | If | 25°C | 240 | mA |
| EL Power Voltage | Vel | Vel=110Vac/400Hz | | V |

## Dimension