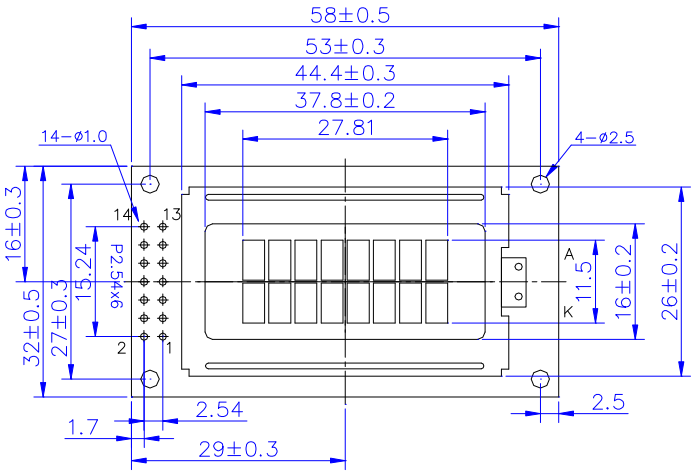
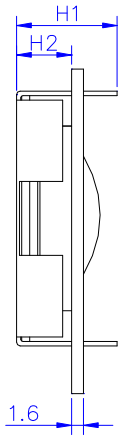
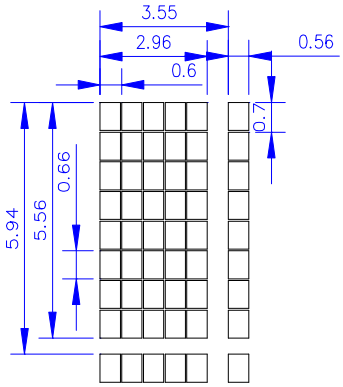
# WINCOM TECH CO.,LTD

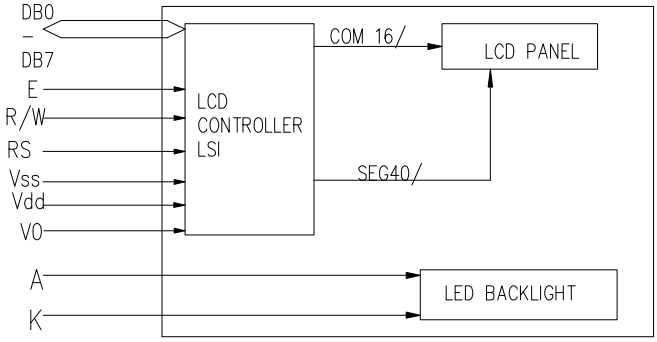
## WC0802C




| HIGH | COLOUR | H1 | H2 |
|---|---|---|---|
| LED BACKLIGHT | Yellow-Green | 13 | 9.1 |
| LED BACKLIGHT | White | -- | -- |




## FEATURE

| |
|---|
| 1. 5 x 8 dots with cursor |
| 2. Display format: 8 characters x 2 lines |
| 3. LCD type: STN / TN |
| 4. LCD controller: S6A0069 |
| 5. LCD colour: Blue/Gray/Yellow-Green |

## ABSOLUTE MAXIMUM RATINGS

| ITEM | SYMBOL | MIN | MAX | UNIT |
|---|---|---|---|---|
| Power suply(logic) | Vdd | -0. 3 | 5. 5 | V |
| Power suply(lcd) | VLCD | 0 | 4. 9 | V |
| Input voltage | Vin | -0.3V | VDD+0.3V | V |

## Pin Assignment

| Pin no | symbol | Function |
|---|---|---|
| 1 | Vss | Ground |
| 2 | Vdd | Power Supply for LCM(+) |
| 3 | V0 | Contrast Adjust |
| 4 | RS | Register select signal |
| 5 | R/W | Data read / write |
| 6 | E | Enable signal |
| 7-14 | DB0-DB7 | Data bus |
| 15 | A | Power supply for LED BL(+) |
| 16 | K | Power supply for LED BL(-) |

## MECHANICAL SPECIFICATIONS

| | | |
|---|---|---|
| CHARACTER NUMBER | 8 x 2 | --- |
| OVERALL SIZE | 58 x 32 | mm |
| VIEWING AREA | 37.8 x 16 | mm |
| HOLE-HOLE | 53 x 27 | mm |
| DOT SIZE | 0.66 x 0.56 | mm |
| DOT PITCH | 0.7 x 0.6 | mm |

## ELECTRONICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | STANDARD | | | UNIT |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| Power supply voltage for circuit | VDD-VSS | ------- | 4.75 | 5 | 5.25 | V |
| Power supply voltage for LCD drive | VDD-V0 | ------- | -------- | 4. 7 | ------ | V |
| LCD display duty ratio | DUTY | ------ | ----- | 1/16 | ----- | ---- |
| LED BACKLIGHT | Ifp | I mseo plus 10% Dutg | ----- | ----- | ----- | mA |
| | | Operating voltage | ------ | 4.1(YG) 3.1(W) | ------ | V |
| | | Forward current | | 50mA(YG) | | mA |
| LED Lifetime | -------- | VFL=4.1Vrms | ---- | 100000 | ------ | Hr |
| Power supply LCD current | IEE | VDD-VO= 4.7 V | ---- | ----- | ---- | mA |

## DISPLAY CHARACTER ADDRESS CODE

| Display position: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Address line1: | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Address line2: | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |