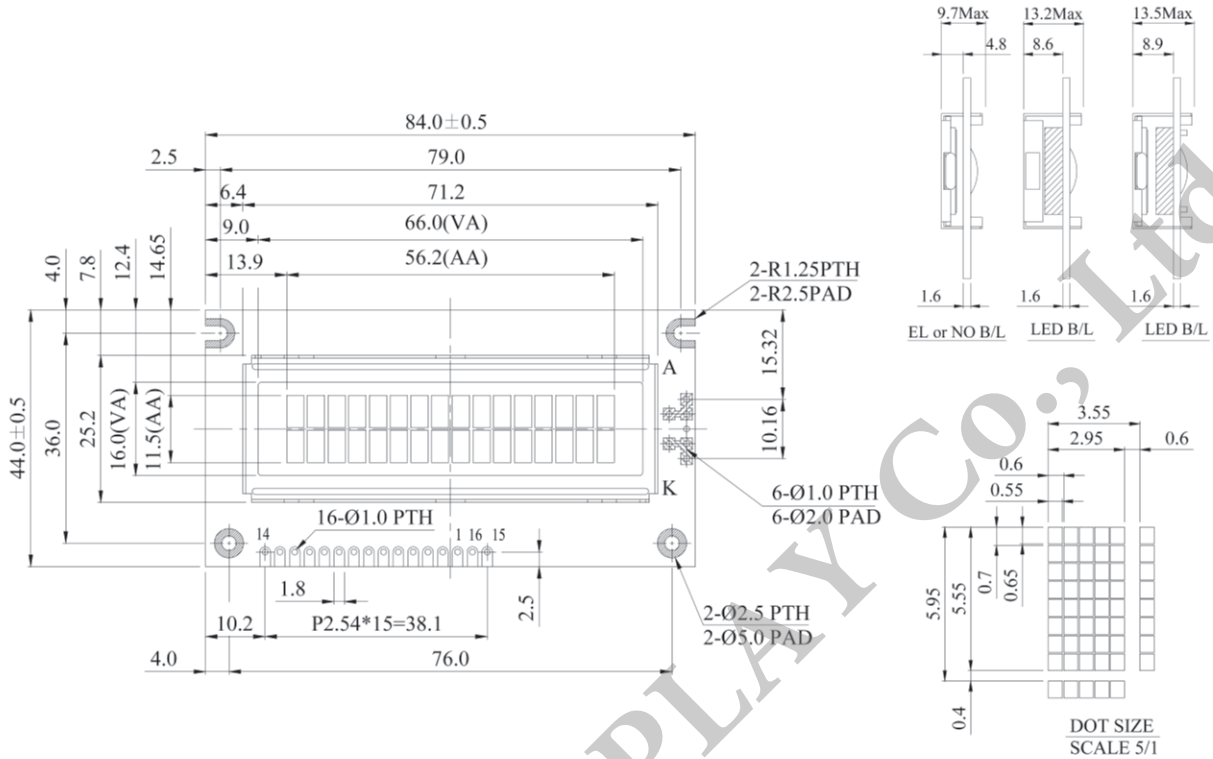
# WH1602A Character 16x2




## Feature

1.5x8 dots includes cursor
2.Bulit-in controller (ST7066 or Equivalent)
3.5V power supply ( Also available for 3V)
4.N.V, optional for 3V power supply
5.1/16 duty cycle
6.LED can be driven by PIN1, PIN2, PIN15, PIN16 or A and K
7.Interface : 6800, option SPI/I2C (RW1063 IC)
8.WH1602N : PIN1-PIN16 in order

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | $V_{SS}$ | Ground |
| 2 | $V_{DD}$ | Power supply for logic |
| 3 | $V_O$ | Contrast Adjustment |
| 4 | RS | Data/ Instruction select signal |
| 5 | R/W | Read/Write select signal |
| 6 | E | Enable signal |
| 7 | DB0 | Data bus line |
| 8 | DB1 | Data bus line |
| 9 | DB2 | Data bus line |
| 10 | DB3 | Data bus line |
| 11 | DB4 | Data bus line |
| 12 | DB5 | Data bus line |
| 13 | DB6 | Data bus line |
| 14 | DB7 | Data bus line |
| 15 | A | Power supply for B/L + |
| 16 | K | Power supply for B/L - |

## Mechanical Data

| Item | Standard Value | Unit |
|---|---|---|
| Module Dimension | 84.0 x 44.0 | mm |
| Viewing Area | 66.0 x 16.0 | mm |
| Mounting Hole | 79.0 / 76.0 x 36.0 | mm |
| Character Size | 2.95 x 5.55 | mm |

## Electrical Characteristics

| Item | Symbol | Standard Value typ. | Unit |
|---|---|---|---|
| Input Voltage | VDD | 3/5 | V |
| Recommended LCD Driving Voltage for Normal Temp. Version module @25ºC | VDD-VO | 3.70 | V |

## Display Character Address Code

| Display position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DD RAM Address | 00 | 01 | | | | | | | | | | | | | | 0F |
| DD RAM Address | 40 | 41 | | | | | | | | | | | | | | 4F |

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