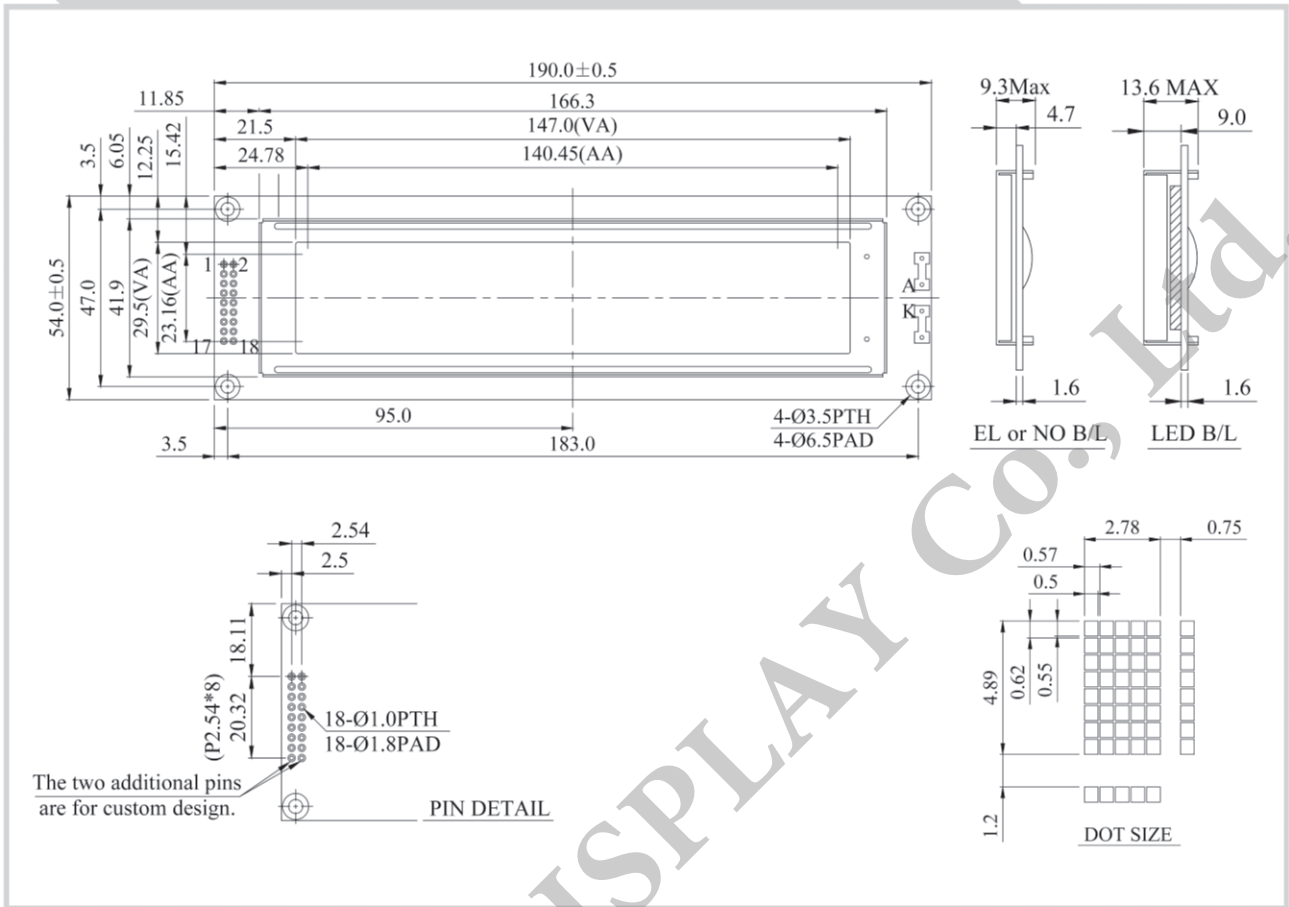


WH4004A Character 40x4



Feature

- 1. 5x8 dots includes cursor
- 2. Built-in controller (ST7066 or Equivalent)
- 3. 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, PIN17, PIN18 or A and K
- 7. Interface : 6800, option SPI/I2C (RW1063 IC)

| Pin No. | Symbol | Description |
|---------|-----------------|---------------------------------|
| 1 | DB7 | Data bus line |
| 2 | DB6 | Data bus line |
| 3 | DB5 | Data bus line |
| 4 | DB4 | Data bus line |
| 5 | DB3 | Data bus line |
| 6 | DB2 | Data bus line |
| 7 | DB1 | Data bus line |
| 8 | DB0 | Data bus line |
| 9 | E1 | Enable signal |
| 10 | R/W | Read/Write select signal |
| 11 | RS | Data/ Instruction select signal |
| 12 | V _O | Contrast Adjustment |
| 13 | V _{SS} | Ground |
| 14 | V _{DD} | Power supply for logic |
| 15 | E2 | Enable signal |
| 16 | NC | No connection |
| 17 | A | Power supply for B/L + |
| 18 | K | Power supply for B/L - |

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 190.0 x 54.0 | mm |
| Viewing Area | 147.0 x 29.5 | mm |
| Mounting Hole | 183.0 x 47.0 | mm |
| Character Size | 2.78 x 4.89 | mm |

Electrical Characteristics

| Item | Symbol | Standard Value | Unit |
|---|--------|----------------|------|
| | | typ. | |
| Input Voltage | VDD | 3/5 | V |
| Recommended LCD Driving Voltage for Normal Temp. Version module @25°C | VDD-VO | 4.35 | V |

Display Character Address Code

Display position

| DD RAM Address | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | --- | --- | 40 | Line |
|----------------|----|----|---|---|---|---|---|---|---|----|----|----|-----|-----|----|--------|
| DD RAM Address | 00 | 01 | | | | | | | | | | | | | 27 | Line 1 |
| DD RAM Address | 40 | 41 | | | | | | | | | | | | | 67 | Line 2 |
| DD RAM Address | 00 | 01 | | | | | | | | | | | | | 27 | Line 3 |
| DD RAM Address | 40 | 41 | | | | | | | | | | | | | 67 | Line 4 |