

### Part number list

WH2004B-□□□-□□#

### Feature

1. Built-in controller ST7066 or equivalent
2. +5V single power supply
3. (Option) +3V power supply
4. (Option) negative voltage for +3V power
5. (Option) SPI, I2C interface

### Pin Assignment

| Pin No. | Symbol          | Description                     |
|---------|-----------------|---------------------------------|
| 1       | V <sub>SS</sub> | Ground                          |
| 2       | V <sub>DD</sub> | Power supply for logic          |
| 3       | V <sub>O</sub>  | 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 | 98.0 x 60.0    | mm   |
| Viewing Area     | 77.0 x 25.2    | mm   |
| Mounting Hole    | 93.0 x 55.0    | mm   |
| Character Size   | 2.95 x 4.75    | mm   |

### Electrical Characteristics

| Item   | Symbol             | Standard Value | Unit |
|--|--------------------|----------------|------|
|  |                    | typ.           |      |
| Input Voltage  | V <sub>DD</sub>    | 5              | V    |
| Recommended LCD Driving Voltage for Normal Temp. Version module @ 25°C | V <sub>DD-VO</sub> | 4.5            | V    |

### Mechanical Drawing

