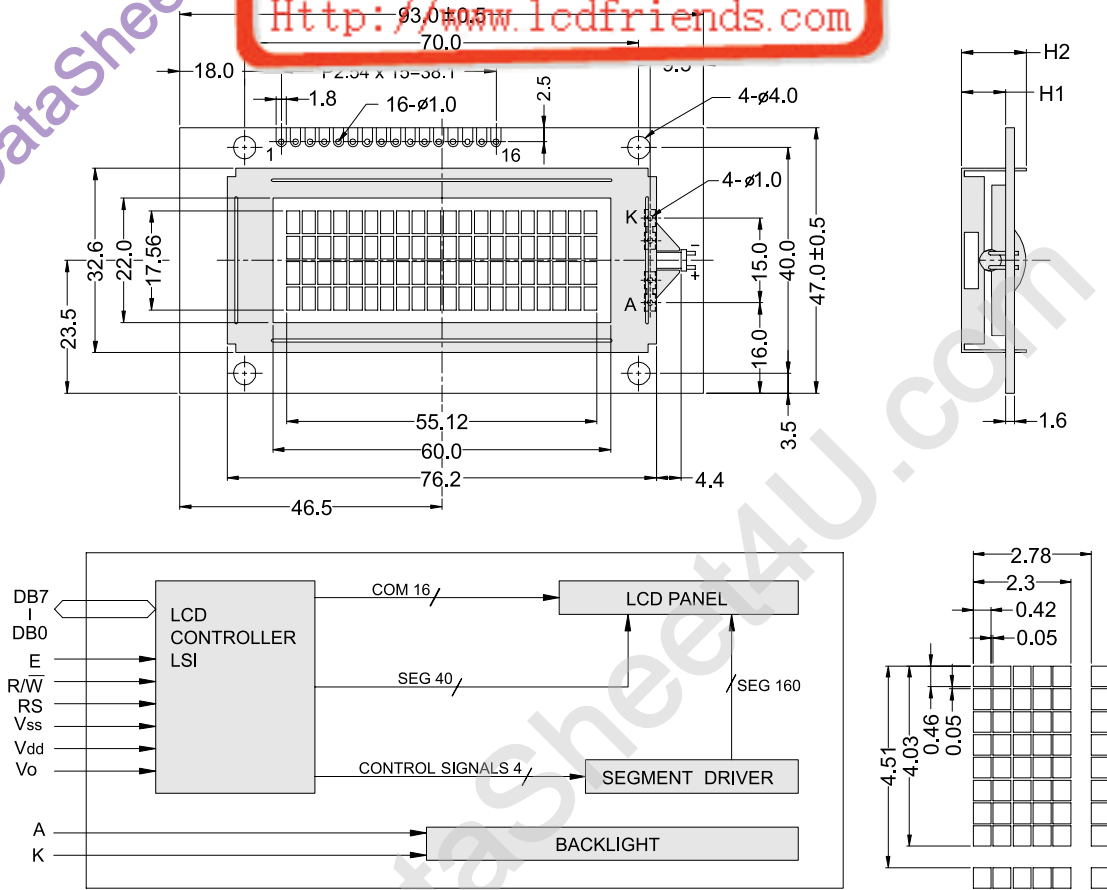


OUTLINE DIMENSION & BLOCK DIAGRAM

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[Http://www.lcdfriends.com](http://www.lcdfriends.com)



The tolerance unless classified ± 0.3mm

| MECHANICAL SPECIFICATION |             |         |            |
|--------------------------|-------------|---------|------------|
| Overall Size             | 93.0 x 47.0 | Module  | H2 / H1    |
| View Area                | 60.0 x 22.0 | W/O B/L | 5.0 / 9.6  |
| Dot Size                 | 0.42 x 0.46 | EL B/L  | 5.0 / 9.6  |
| Dot Pitch                | 0.47 x 0.51 | LED B/L | 7.8 / 11.5 |

| PIN ASSIGNMENT |        |                              |
|----------------|--------|------------------------------|
| Pin no.        | Symbol | Function                     |
| 1              | Vss    | Power supply(GND)            |
| 2              | Vdd    | Power supply(+)              |
| 3              | Vo     | Contrast Adjust              |
| 4              | RS     | Register select signal       |
| 5              | R/W    | Data read / write            |
| 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 LED B/L (+) |
| 16             | K      | Power supply for LED B/L (-) |

| ABSOLUTE MAXIMUM RATING          |           |           |      |         |       |       |     |     |   |
|----------------------------------|-----------|-----------|------|---------|-------|-------|-----|-----|---|
| Item                             | Symbol    | Condition | Min. | Max.    | Units |       |     |     |   |
| Supply for logic voltage         | Vdd-Vss   | 25°C      | -0.3 | 7       | V     |       |     |     |   |
| LCD driving supply voltage       | Vdd-Vee   | 25°C      | -0.3 | 13      | V     |       |     |     |   |
| Input voltage                    | Vin       | 25°C      | -0.3 | Vdd+0.3 | V     |       |     |     |   |
| ELECTRICAL CHARACTERISTICS       |           |           |      |         |       |       |     |     |   |
| Item                             | Symbol    | Condition | Min. | Typical | Max.  | Units |     |     |   |
| Power supply voltage             | Vdd-Vss   | 25°C      | 2.7  | -       | 5.5   | V     |     |     |   |
| LCD operation voltage            | Vop       | Top       | N    | W       | N     | W     | V   |     |   |
|                                  |           | -20°C     | -    | 7.4     | 7.8   | -     | 8.2 | V   |   |
|                                  |           | 0°C       | 4.9  | 5.2     | -     | 5.5   | -   | V   |   |
|                                  |           | 25°C      | 4.5  | 6.4     | 4.8   | 6.7   | 5.1 | 7   | V |
|                                  |           | 50°C      | 4.1  | -       | 4.4   | -     | 4.7 | -   | V |
|                                  |           | 70°C      | -    | 6       | -     | 6.3   | -   | 6.6 | V |
| LCM current consumption (No B/L) | Idd       | Vdd=5V    | -    | 2.5     | 4     | mA    |     |     |   |
| Backlight current consumption    | LED/edge  | VB/L=3.3V | -    | 10      | -     | mA    |     |     |   |
|                                  | LED/array | VB/L=4.2V | -    | -       | -     | mA    |     |     |   |