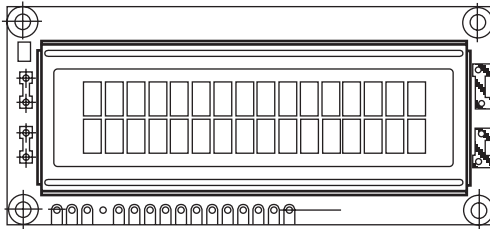


# 16 x 2 Character LCD


**FEATURES**

- 5 x 8 dots includes cursor
- Built - in controller (KS 0066 or Equivalent)
- + 5V power supply (Also available for + 3V)
- 1/16 duty cycle
- LED can be driven by pin 1, pin 2, pin 15 or A and K
- N.V. optional for + 3V power supply

| MECHANICAL DATA  |                |      |
|------------------|----------------|------|
| ITEM             | STANDARD VALUE | UNIT |
| Module Dimension | 80.0 x 36.0    | mm   |
| Viewing Area     | 66.0 x 16.0    | mm   |
| Mounting Hole    | 75.0 x 31.0    | mm   |
| Character Size   | 2.95 x 5.55    | mm   |

| ABSOLUTE MAXIMUM RATING |         |                |      |      |      |
|-------------------------|---------|----------------|------|------|------|
| ITEM                    | SYMBOL  | STANDARD VALUE |      |      | UNIT |
|                         |         | MIN.           | TYP. | MAX. |      |
| Power Supply            | VDD-VSS | - 0.3          | -    | 7.0  | V    |
| Input Voltage           | VI      | - 0.3          | -    | VDD  | V    |

**NOTE:** VSS = 0 Volt, VDD = 5.0 Volt

| ELECTRICAL SPECIFICATIONS                                      |          |                     |                |      |      |      |    |
|--|----------|---------------------|----------------|------|------|------|----|
| ITEM   | SYMBOL   | CONDITION           | STANDARD VALUE |      |      | UNIT |    |
|  |          |                     | MIN.           | TYP. | MAX. |      |    |
| Input Voltage  | VDD      | VDD = + 5V          | 4.7            | 5.0  | 5.3  | V    |    |
| Supply Current   | IDD      | VDD = + 5V          | -              | 1.2  | 1.4  | mA   |    |
| Recommended LC Driving Voltage for Normal Temp. Version Module | VDD - V0 | - 20 °C             | -              | -    | 5.2  | V    |    |
|  |          | 0°C                 | -              | -    | 4.2  |      |    |
|  |          | 25°C                | -              | 3.8  | -    |      |    |
|  |          | 50°C                | 3.5            | -    | -    |      |    |
|  |          | 70°C                | 3.2            | -    | -    |      |    |
| LED Forward Voltage  | VF       | 25°C                | -              | 4.2  | 4.6  | V    |    |
| LED Forward Current  | IF       | 25°C                | Array          | -    | 130  | 260  | mA |
|  |          | 25°C                | Edge           | -    | 20   | 40   | mA |
| EL Power Supply Current  | IEL      | Vel = 110VAC; 400Hz | -              | -    | 5.0  | mA   |    |

| 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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