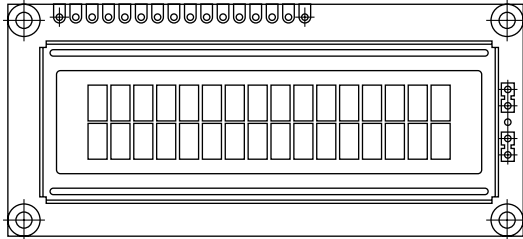


16 x 2 Character LCD



FEATURES

- Type: Character
- Display format: 16 x 2 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply (also available for + 3 V)
- LED can be driven by pin 1, pin 2, pin 15, pin 16 or A and K
- N.V. optional for + 3 V power supply
- Optional: Smaller character size (2.95 mm x 4.35 mm)
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA

| ITEM | STANDARD VALUE | UNIT |
|------------------|----------------|------|
| Module Dimension | 80.0 x 36.0 | mm |
| Viewing Area | 66.0 x 16.0 | |
| Dot Size | 0.55 x 0.65 | |
| Dot Pitch | 0.60 x 0.70 | |
| Mounting Hole | 75.0 x 31.0 | |
| Character Size | 2.96 x 5.56 | |

ABSOLUTE MAXIMUM RATINGS

| ITEM | SYMBOL | STANDARD VALUE | | | UNIT |
|---------------|----------------------|----------------|------|----------|------|
| | | MIN. | TYP. | MAX. | |
| Power Supply | V_{DD} to V_{SS} | - 0.3 | - | 7.0 | V |
| Input Voltage | V_I | - 0.3 | - | V_{DD} | |

Note

- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

ELECTRICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | STANDARD VALUE | | | UNIT |
|--|-------------------|---|----------------|------|------|------|
| | | | MIN. | TYP. | MAX. | |
| Input Voltage | V_{DD} | $V_{DD} = +5$ V | 4.7 | 5.0 | 5.3 | V |
| Supply Current | I_{DD} | $V_{DD} = +5$ V | - | 1.2 | 1.5 | mA |
| Recommended LC Driving Voltage for Normal Temperature Version Module | V_{DD} to V_0 | - 20 °C | - | - | 5.2 | V |
| | | 0 °C | - | - | 4.2 | |
| | | 25 °C | - | 3.8 | - | |
| | | 50 °C | 3.5 | - | - | |
| | | 70 °C | 3.2 | - | - | |
| LED Forward Voltage | V_F | 25 °C | - | 4.2 | 4.6 | V |
| LED Forward Current - Array | I_F | 25 °C | - | 100 | - | mA |
| LED Forward Current - Edge | | | - | 20 | 40 | |
| EL Power Supply Current | I_{EL} | $V_{EL} = 110$ V _{AC} , 400 Hz | - | - | 5.0 | mA |

OPTIONS

| PROCESS COLOR | | | | | | BACKLIGHT | | | |
|---------------|----------|------------|----------|----------|-----------|-----------|-----|----|------|
| TN | STN Gray | STN Yellow | STN Blue | FSTN B&W | STN Color | None | LED | EL | CCFL |
| x | x | x | x | | | x | x | x | |

For detailed information, please see the "Product Numbering System" document.

DISPLAY CHARACTER ADDRESS CODE

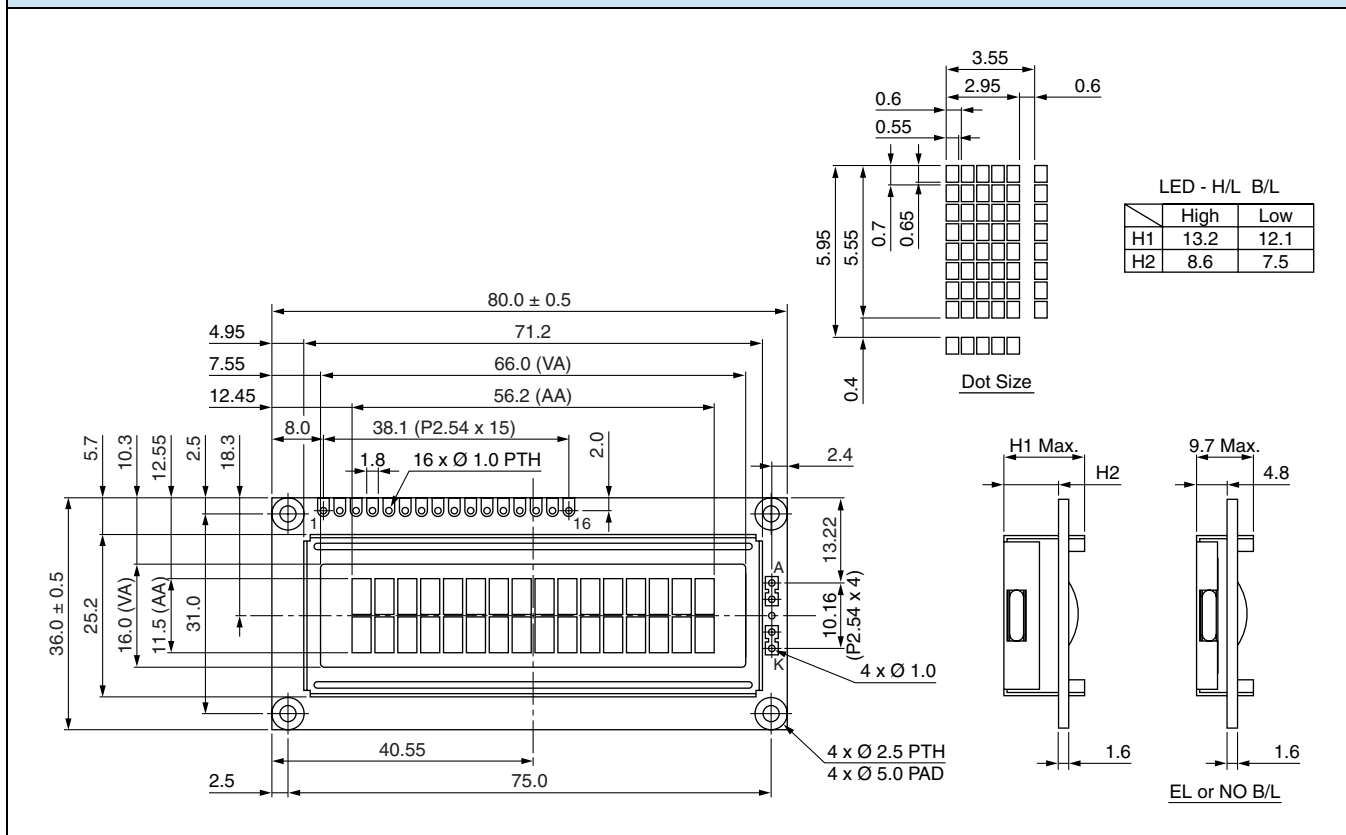
Display Position

| | | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| DD RAM Address | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
| DD RAM Address | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 4A | 4B | 4C | 4D | 4E | 4F |

INTERFACE PIN FUNCTION

| PIN NO. | SYMBOL | FUNCTION |
|---------|-------------------|--|
| 1 | V _{SS} | Ground |
| 2 | V _{DD} | + 3 V or + 5 V |
| 3 | V ₀ | Contrast adjustment |
| 4 | RS | H/L register select signal |
| 5 | R/W | H/L read/write signal |
| 6 | E | H → L enable signal |
| 7 | DB0 | H/L data bus line |
| 8 | DB1 | H/L data bus line |
| 9 | DB2 | H/L data bus line |
| 10 | DB3 | H/L data bus line |
| 11 | DB4 | H/L data bus line |
| 12 | DB5 | H/L data bus line |
| 13 | DB6 | H/L data bus line |
| 14 | DB7 | H/L data bus line |
| 15 | A/V _{EE} | + 4.2 V for LED (R _A = 0 Ω)/negative voltage output |
| 16 | K | Power supply for B/L (0 V) |

DIMENSIONS in millimeters





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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
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Конструкторский отдел помогает осуществить:

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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