

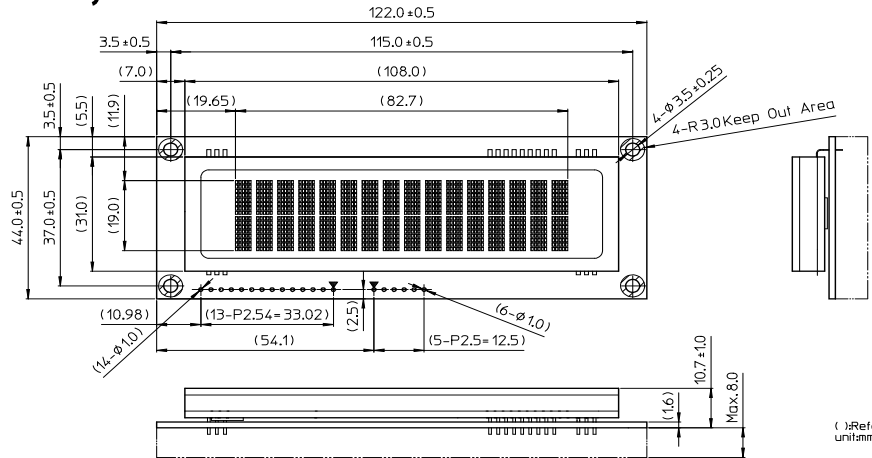
CU16029-UW1J

SIMPLIFIED DATASHEET

Features

16 character x 2 line display model, using a larger VFD.

Physical dimension



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Specifications

Electrical Ratings

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---|---------|--------|------|--------|------|----------------|
| Logic Input Voltage DB0-DB7, RS,R/W(WR), E(RD),SCK, STB | VIH1 | 2.0 | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL1 | VSS | - | 0.8 | VDC | |
| Logic Input Voltage SI/SO | VIH2 | 0.7VCC | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL2 | VSS | - | 0.3VCC | VDC | |
| Logic Input Voltage /RESET | VIH3 | 0.8VCC | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL3 | VSS | - | 0.2VCC | VDC | |
| Power supply Voltage | VCC-VSS | 4.75 | 5.00 | 5.25 | VDC | - |

Electrical Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|--------------------------|--------|---------|------|------|------|-------------|
| Logic Output Voltage 'H' | VOH | VCC-0.8 | - | - | VDC | IOH = -4 mA |
| 'L' | VOL | - | - | 0.6 | VDC | IOL = 4 mA |
| 'H' | VOH | VCC-0.5 | - | - | VDC | IOH = -2 mA |
| 'L' | VOL | - | - | 0.5 | VDC | IOL = 2 mA |
| Power Supply Current 1 | ICC1 | - | 340 | 450 | mA | Display ON |
| Power Supply Current 2 | ICC2 | - | 3 | 10 | mA | Display OFF |
| Power Consumption | | - | 1.7 | 2.25 | W | Display ON |

Optical Characteristics

| Parameter | Value |
|-----------------------|----------------------------|
| Luminance | 350 cd/m ² Min. |
| Color of illumination | Green (Blue-Green) |

Environmental Conditions

| Parameter | Value |
|---------------------------|--|
| Operating Temperature | -40 ~ +85 degrees celsius |
| Storage Temperature | -50 ~ +85 degrees celsius |
| Operating Humidity | 20 ~ 80% R.H. (non-condensing) |
| Vibration (Non operation) | 10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z |
| Shock (Non operation) | 980m/s ² (100G) 6ms |

Physical Specifications

| Parameter | Value |
|-----------------|----------------------------|
| Number of char. | 32 (16 x 2) |
| Matrix format | 5 x 7 ANK, International |
| Display area | 82.7 x 19.0 mm (X x Y) |
| Character size | 3.85 x 8.00 mm (X x Y) |
| | Underline is not included. |
| Character pitch | 5.26 mm |
| Line pitch | 9.81 mm |
| Weight | About 61 g |

Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

Pin Assignment (Parallel)

| Pin No | Signal | Pin No | Signal |
|--------|---------|--------|--------|
| 1 | GND | 8 | DB1 |
| 2 | VCC | 9 | DB2 |
| 3 | NC | 10 | DB3 |
| 4 | RS | 11 | DB4 |
| 5 | R/W(WR) | 12 | DB5 |
| 6 | E(RD) | 13 | DB6 |
| 7 | DB0 | 14 | DB7 |

(Synchronous Serial)

| Pin No | Signal |
|--------|--------|
| 1 | VCC |
| 2 | SI/SO |
| 3 | GND |
| 4 | STB |
| 5 | SCK |
| 6 | NC |

Functions

| Parameter | Value |
|---------------------------------|------------------------|
| Command compatible with | HD44780 LCD controller |
| Display ON/OFF | |
| Brightness Control | |
| Cursor ON/OFF | |
| 8 User definable character font | |
| etc. | |