

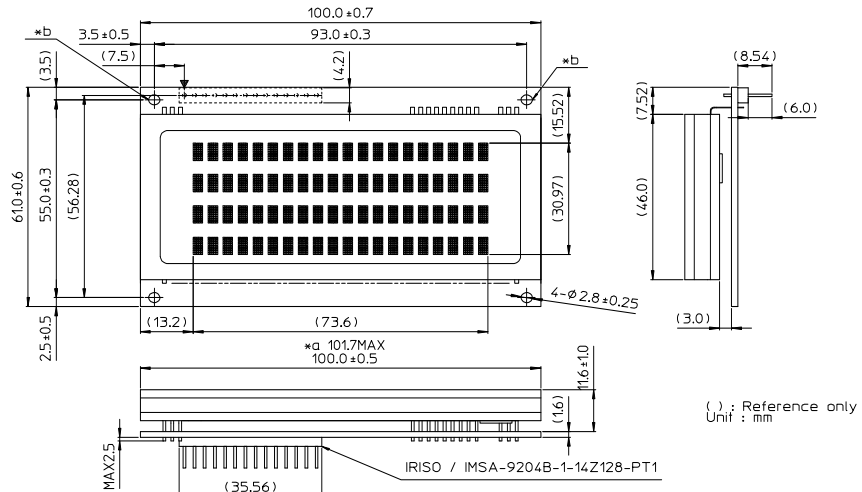
CU20045-UW7J

SIMPLIFIED DATASHEET

■ Features

20 character x 4 line display module, for showing large number of characters. Character pitch wider than CU20045-UW5J, providing improved visibility.

■ Physical dimension



*a Included extra frit glass.
 *b Be careful when mounting the product by any conducting or hard material, not to touch the display leads due to very small spacing between display leads and mounting holes.

Get full specification



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Specifications

■ Electrical Ratings

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|----------------------|---------|------|------|------|------|----------------|
| Logic Input Voltage | VIH1 | 2.0 | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL1 | VSS | - | 0.8 | | |
| 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 |
| Logic Output Voltage 'L' | VOL | - | - | 0.6 | VDC | IOL = 4 mA |
| Logic Output Voltage 'H' | VOH | VCC-0.5 | - | - | VDC | IOH = -2 mA |
| Logic Output Voltage 'L' | VOL | - | - | 0.5 | VDC | IOL = 2 mA |
| Power Supply Current 1 | ICC1 | - | 300 | 400 | mA | Display ON |
| Power Supply Current 2 | ICC2 | - | 250 | 330 | mA | Display OFF |
| Power Consumption | | - | 1.5 | 2.0 | 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) | 539m/s ² (55G) 10 ms |

■ Physical Specifications

| Parameter | Value | *ANK(Alphabet, Numeric, Kana) |
|-----------------|--------------------------|-------------------------------|
| Number of char. | 80 (20 x 4) | |
| Built-in Fonts | 5 x 7 ANK, International | |
| Display area | 73.6 x 30.97mm (X x Y) | |
| Character size | 2.35 x 4.84 mm (X x Y) | |
| Character pitch | 3.75 mm | |
| Line pitch | 8.71 mm | |
| Weight | About 95 g | |

■ Interface

8bit/4bit Parallel(TTL)

■ 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 |

■ Functions

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

