

## CU20045-UW7J

## SIMPLIFIED DATASHEET

## ■ Features

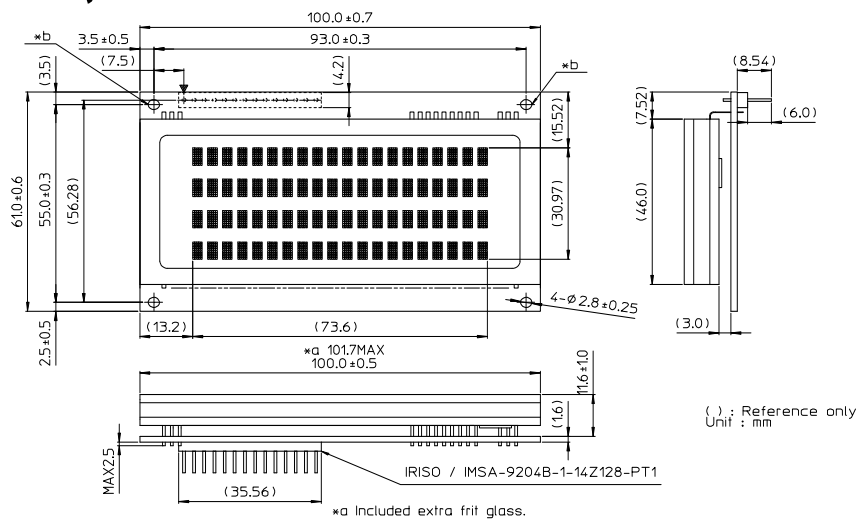
20 character x 4 line display module, for showing large number of characters.  
Character pitch wider than CU20045-UW5J, providing improved visibility.

## Get full specification



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## ■ Physical dimension



## 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  | 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   | -       | 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             |                            |
|-----------------------|----------------------------|
| Luminance             | 350 cd/m <sup>2</sup> Min. |
| Color of illumination | Green (Blue-Green)         |

## ■ Environmental Conditions

| Parameter                 |                                                  |
|---------------------------|--------------------------------------------------|
| 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 <sup>2</sup> (55G) 10 ms                  |

## ■ Physical Specifications

| Parameter       |                          |
|-----------------|--------------------------|
| Number of char. | 80 (20 x 4)              |
| Matrix format   | 5 x 8 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                                      |  |
|------------------------------------------------|--|
| Command compatible with HD44780 LCD controller |  |
| Display ON/OFF                                 |  |
| Brightness Control                             |  |
| Cursor ON/OFF                                  |  |
| 8 User definable character font                |  |
| etc.                                           |  |