

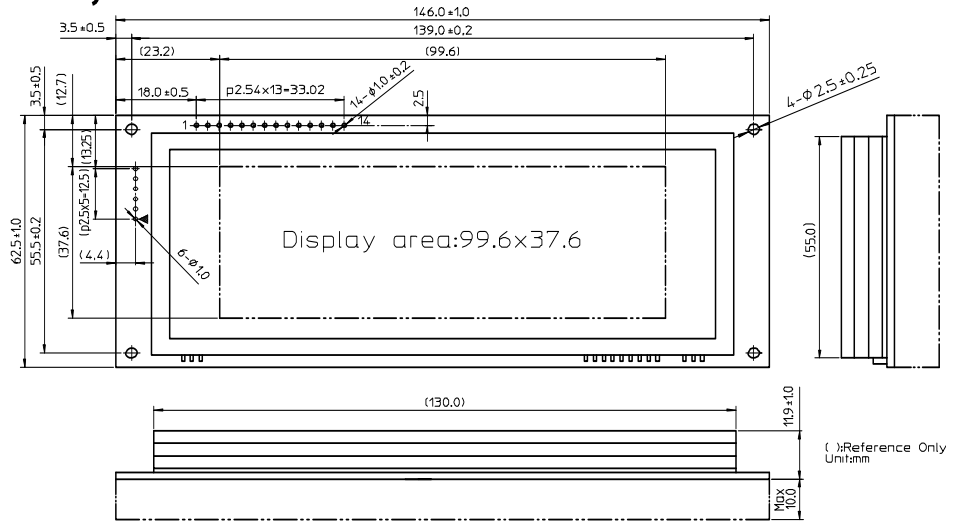
# CU20049-UW2J

## SIMPLIFIED DATASHEET

### ■ Features

20 character x 4 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	-	650	850	mA	Display ON
Power Supply Current 2	ICC2	-	8	15	mA	Display OFF
Power Consumption		-	3.25	4.25	W	Display ON

#### ■ Optical Characteristics

Parameter	Value
Luminance	350 cd/m <sup>2</sup> 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 <sup>2</sup> (55G) 10ms

#### ■ Physical Specifications

Parameter	Value
Number of char.	80 (20 x 4)
Matrix format	5 x 8 ANK, International
Display area	99.6 x 37.6 mm (X x Y)
Character size	3.65 x 8.8 mm (X x Y)
Character pitch	5.05 mm
Line pitch	9.6 mm
Weight	About 155 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.	



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