

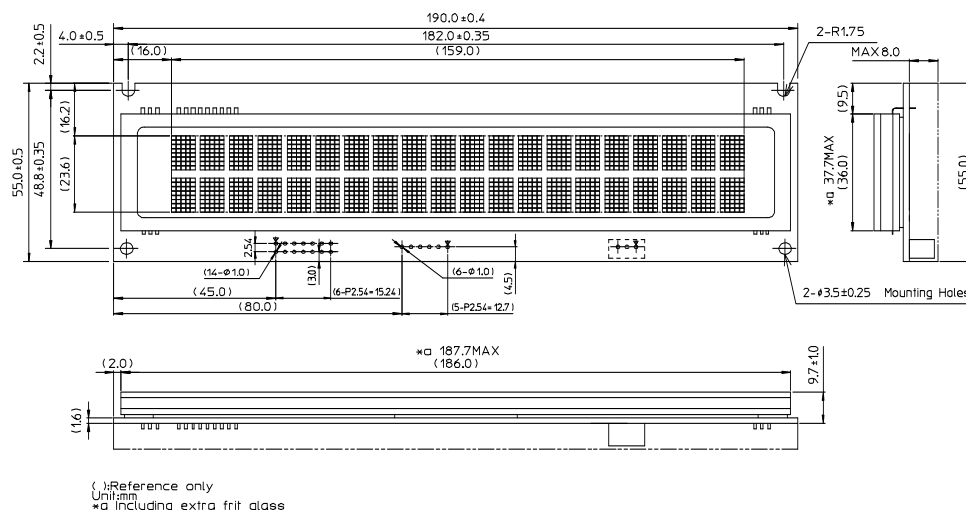
CU200211-Y100

SIMPLIFIED DATASHEET

■ Features

20 character x 2 line display.
Largest character size display in the series.

■ Physical dimension



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Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply Voltage	VCC	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

#1: Brightness 100% #2: Brightness 200%

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current D0-D7, /WR, /RESET	IIL	-	-	-0.15	mA	VIN=0V
'H' Logic Input Current D0-D7 /WR, /RESET	IIH1 IIH2	-	-	5.0 0.25	μA μA	VIN=5V VIN=5V
Logic input resistance SIN	RIN	3	-	-	Kohm	-
'L' Logic Input Voltage D0-D7, /WR /RESET SIN	VIL1 VIL2 VIL3	0 0 -15	-	0.2VCC 0.8 0.5	VDC VDC VDC	- - -
'H' Logic Input Voltage D0-D7, /WR, /RESET SIN	VIH1 VIH2	0.8VCC 3.0	-	VCC +15	VDC VDC	- -
'L' Logic Output Voltage PBUSY SBUSY	VOL1 VOL2	- 0	-	0.1 0.5	VDC VDC	IOL=50 μA RL = 3Kohm
'H' Logic Output Voltage PBUSY SBUSY	VOH1 VOH2	VCC-0.1 4.0	-	- VCC	VDC VDC	IOH=-50 μA RL = 3Kohm
Power Supply Current #1	ICC1-1	-	720	920	mADC	Display ON
Power Supply Current #1	ICC2-1	-	560	720	mADC	Display OFF
Power Supply Current #2	ICC1-2	-	980	1260	mADC	Display ON
Power Supply Current #2	ICC2-2	-	640	820	mADC	Display OFF
Power Supply Current 3	ICC3	-	18	30	mADC	Disp. Power OFF
Power Consumption #1	-	-	3.6	4.6	W	Display ON
Power Consumption #2	-	-	5.0	6.4	W	Display ON

■ Optical Characteristics

#1: Brightness 100% #2: Brightness 200%

Parameter		
Luminance	350 cd/m ² Min.	
#1	1000 cd/m ² Typ.	
#2	2000 cd/m ² Typ.	
Color of illumination	Green (Blue-Green)	

■ Environmental Conditions

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Storage Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (Non operation)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (Non operation)	392m/s ² (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	*ANK(Alphabet, Numeric, Kana)
Number of Char.	40 (20 characters x 2 lines)
Built-in Fonts	5 x 8 ANK, International font
Display Area	159.0 x 23.59 mm (X x Y)
Character Size	6.52 x 10.51 mm (X x Y)
Character Pitch	8.03 mm
Line pitch	13.08 mm
Weight	About 119 g

■ Interface

Parallel (CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

Pin No	Signal	Pin No	Signal
1	GND	2	Vcc
3	PBUSY	4	/RESET
5	/WR	6	NC
7	D0(LSB)	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(MSB)

(Serial)

Pin No	Signal	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*:factory default)
6	/RESET	

■ Functions

Parameter
Highlight Function
Font Magnification
Horizontal scroll mode
Blink ON/OFF
Power save mode
Screen saver
Cursor, Underline ON/OFF
User Font function
etc.