



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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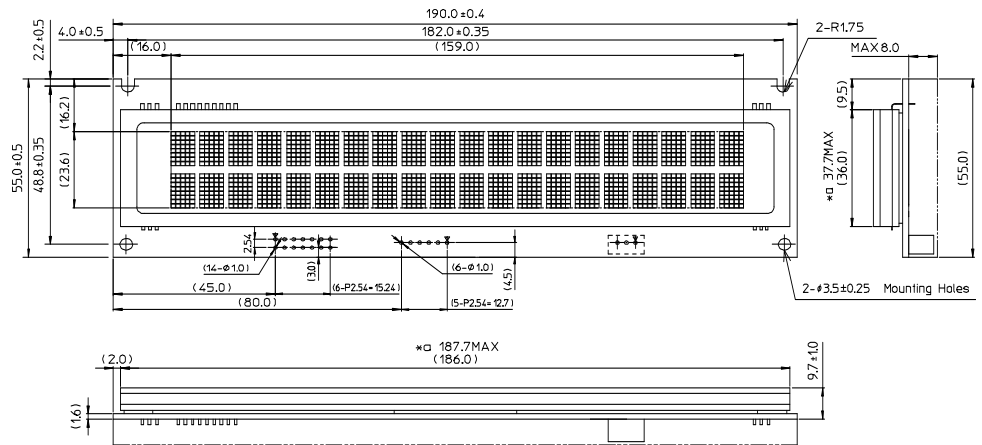
# CU200211-Y100

## SIMPLIFIED DATASHEET

### Features

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

### Physical dimension



( ) Reference only  
Unit:mm  
\*a including extra frit glass

### Get full specification



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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

Parameter	Symbol	Min.	Typ.	#1: Brightness 200%		#2: Brightness 100%	
				Max.	Unit	Max.	Unit
'L' Logic Input Current D0-D7, /WR, /RESET	IIL	-	-	-0.15	mA	VIN=0V	
'H' Logic Input Current D0-D7	IIH1	-	-	5.0	μA	VIN=5V	
/WR, /RESET	IIH2	-	-	0.25	μA	VIN=5V	
Logic input resistance SIN	RIN	3	-	-	KOhm	-	
'L' Logic Input Voltage D0-D7, /WR /RESET	VIL1	0	-	0.2VCC	VDC	-	
SIN	VIL2	0	-	0.8	VDC	-	
	VIL3	-15	-	0.5	VDC	-	
'H' Logic Input Voltage D0-D7, /WR, /RESET	VIH1	0.8VCC	-	VCC	VDC	-	
SIN	VIH2	3.0	-	+15	VDC	-	
'L' Logic Output Voltage PBUSY	VOL1	-	-	0.1	VDC	IOL=50 μA	
SBUSY	VOL2	0	-	0.5	VDC	RL = 3KOhm	
'H' Logic Output Voltage PBUSY	VOH1	VCC-0.1	-	-	VDC	IOH=-50 μA	
SBUSY	VOH2	4.0	-	VCC	VDC	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. Pwr OFF	
Power Consumption #1		-	3.6	4.6	W	Display ON	
Power Consumption #2		-	5.0	6.4	W	Display ON	

#### Optical Characteristics

Parameter		#1: Brightness 200%		#2: Brightness 100%	
		Min.	Typ.	Min.	Typ.
Luminance		350 cd/m <sup>2</sup> Min.			
	#1	1000 cd/m <sup>2</sup> Typ.			
	#2	2000 cd/m <sup>2</sup> Typ.			
Color of illumination		Green (Blue-Green)			

#### Environmental Conditions

Parameter	Condition
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 <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

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



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