

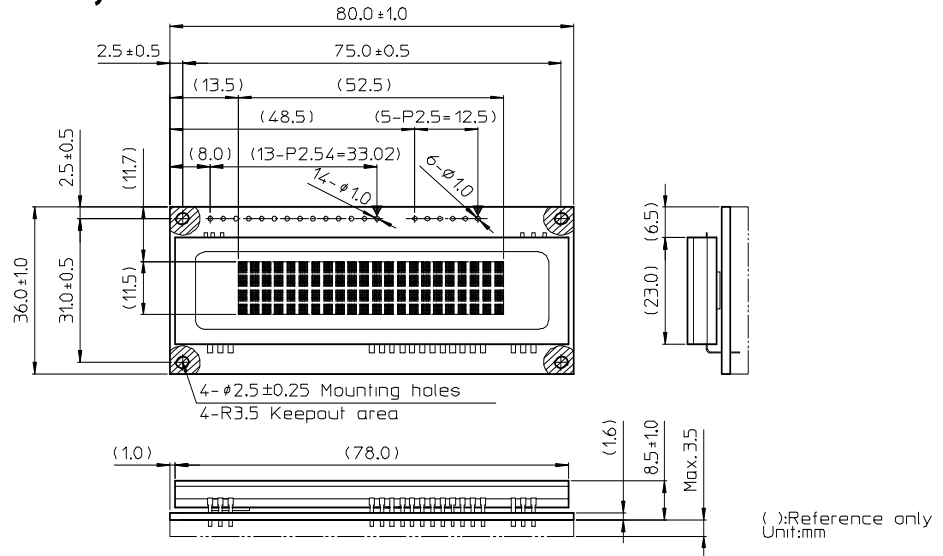
# CU22042-Y1A

## SIMPLIFIED DATASHEET

### ■ Features

22 character x 4 line display.  
 Display 2.75 times more information, in around the same compact size as CU-U series or LCD module.

### ■ 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

Parameter	Symbol	Min.	Typ.	#1: Brightness 200%		#2: Brightness 100%	
				Max.	Unit	Max.	Unit
'L' Logic Input Current							
D0-D7, /WR, /RESET	IIL1	-	-	-0.15	mA	VIN=0V	
SIN, SCK	IIL2	-	-	-0.55	mA	VIN=0V	
'H' Logic Input Current							
D0-D7, SIN, SCK	I IH1	-	-	5.0	μA	VIN=5V	
/WR, /RESET	I IH2	-	-	0.25	μA	VIN=5V	
'L' Logic Input Voltage							
D0-D7, /WR, SIN, SCK	VIL1	0	-	0.2VCC	VDC	-	
/RESET	VIL2	0	-	0.8	VDC	-	
'H' Logic Input Voltage							
D0-D7, /WR, /RESET, SIN, SCK	VIH	0.8VCC	-	VCC	VDC	-	
'L' Logic Output Voltage							
PBUSY	VOL1	-	-	0.1	VDC	IOL=50 μA	
SBUSY	VOL2	-	-	0.45	VDC	IOL=200 μA	
'H' Logic Output Voltage							
PBUSY	VOH1	VCC-0.1	-	-	VDC	IOH=-50 μA	
SBUSY	VOH2	VCC-0.5	-	VCC	VDC	IOH=-200 μA	
Power Supply Current #1	ICC1-1	-	180	230	mADC	Display ON	
Power Supply Current #1	ICC2-1	-	170	210	mADC	Display OFF	
Power Supply Current #2	ICC1-2	-	220	270	mADC	Display ON	
Power Supply Current #2	ICC2-2	-	190	240	mADC	Display OFF	
Power Supply Current #3	ICC3	-	18	25	mADC	Disp. Pwr OFF	
Power Consumption #1		-	0.9	1.15	W	Display ON	
Power Consumption #2		-	1.1	1.35	W	Display ON	

#### ■ Optical Characteristics

Parameter	Symbol	#1: Brightness 200%		#2: Brightness 100%	
		Min.	Typ.	Min.	Typ.
Luminance		350 cd/m <sup>2</sup>	Min.	1000 cd/m <sup>2</sup>	Typ.
	#1	1000 cd/m <sup>2</sup>	Typ.	2000 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.	88 (22 characters x 4 lines)
Built-in Fonts	5 x 8 ANK, International font
Display Area	52.48 x 11.5 mm (X x Y)
Character Size	1.66 x 2.348 mm (X x Y)
Character Pitch	2.42 mm
Line pitch	3.05 mm
Weight	About 31 g

#### ■ Interface

Parallel (CMOS), Sync/Asynchronous Serial (CMOS)

#### ■ Pin Assignment (Parallel)

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

#### (Serial)

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

#### ■ Functions

Parameter	Value
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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