

CU22042-Y100

SIMPLIFIED DATASHEET

■ Features

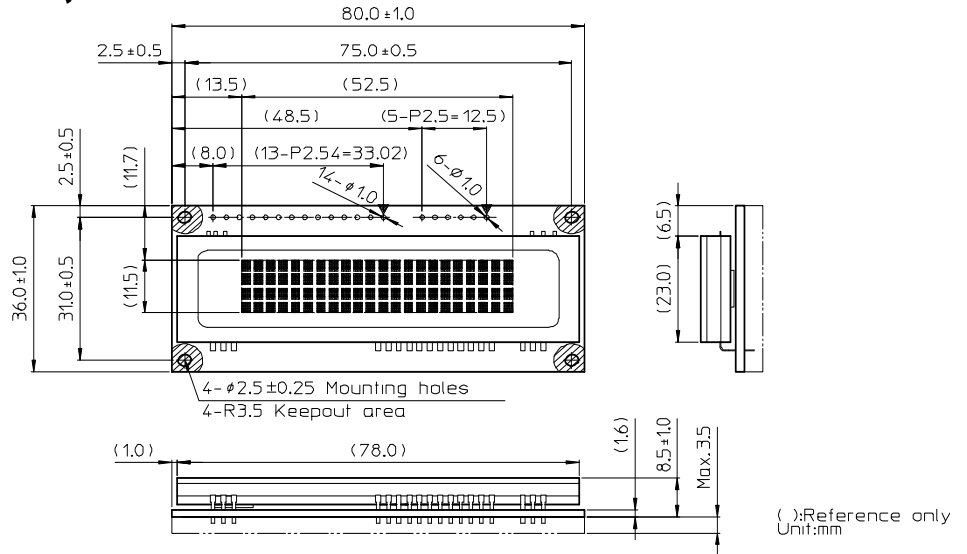
22 character x 4 line display.
 Display 2.75 times more information, in around the same compact size as CU-U series or LCD module.

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■ Physical dimension



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.	Max.	Unit	Condition	#1: Brightness 200%		#2: Brightness 100%	
'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	VIL1	0	-	0.2VCC	VDC	-				
/RESET	VIL2	0	-	0.8	VDC	-				
SIN	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	-	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. Pwer OFF				
Power Consumption #1		-	0.9	1.15	W	Display ON				
Power Consumption #2		-	1.1	1.35	W	Display ON				

■ Optical Characteristics

Parameter		#1: Brightness 200%		#2: Brightness 100%	
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	
Number of Char.	88 (22 characters X4 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 31g

■ Interface

Parallel (CMOS), Asynchronous Serial (RS232)

■ 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	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.	



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