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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CU22042-Y1A

SIMPLIFIED DATASHEET

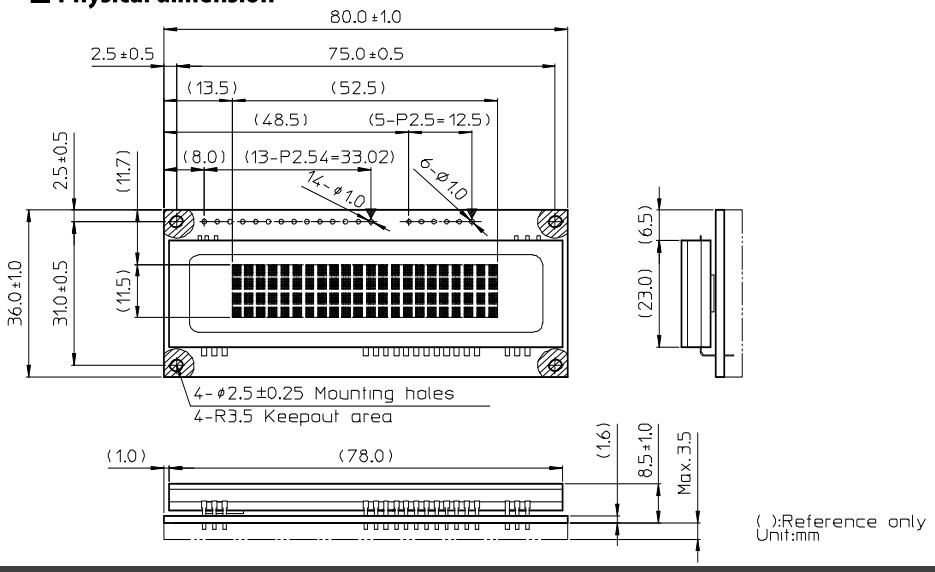
■ Features

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.

Get full specification

Click here to go to request form.

■ 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

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'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	IIH1	-	-	5.0	μA	VIN=5V
/WR, /RESET	IIH2	-	-	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=50μA
SBUSY	VOL2	-	-	0.45	VDC	IOL=200μA
'H' Logic Output Voltage						
PBUSY	VOH1	VCC-0.1	-	-	VDC	IOH=-50μA
SBUSY	VOH2	VCC-0.5	-	VCC	VDC	IOL=-200μA
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

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

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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
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
1	Vcc
2	SIN
3	GND
4	SBUSY
5	SCK
6	/RESET

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

RoHS COMPLIANT

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