



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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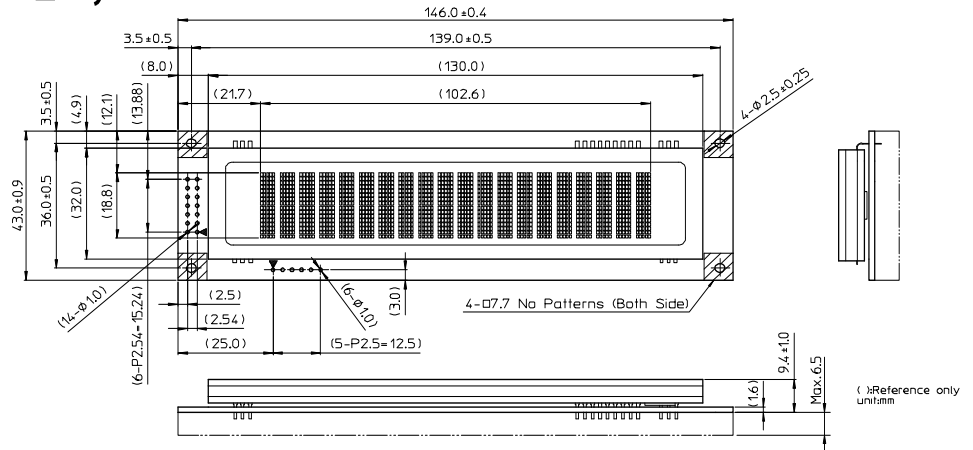
CU2009-UW1J

SIMPLIFIED DATASHEET

Features

20 character x 2 line display model, using a larger VFD.

Physical dimension



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Specifications

Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage						
DB0-DB7, RS,R/W(WR), E(RD),SCK, STB	VIH1	2.0	-	VCC	VDC	VCC-VSS= 5.0 V
	VIL1	VSS	-	0.8		
Logic Input Voltage	VIH2	0.7VCC	-	VCC	VDC	VCC-VSS= 5.0 V
SI/SO	VIL2	VSS	-	0.3VCC		
Logic Input Voltage	VIH3	0.8VCC	-	VCC	VDC	VCC-VSS= 5.0 V
/RESET	VIL3	VSS	-	0.2VCC		
Power supply Voltage	VCC-VSS	4.75	5.00	5.25	VDC	-

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Output Voltage	'H'	VOH	VCC-0.8	-	VDC	IOH = -4 mA
	'L'	VOL	-	0.6		IOL = 4 mA
	'H'	VOH	VCC-0.5	-	VDC	IOH = -2 mA
	'L'	VOL	-	0.5		IOL = 2 mA
Power Supply Current 1	ICC1	-	340	410	mA	Display ON
Power Supply Current 2	ICC2	-	3	10	mA	Display OFF
Power Consumption		-	1.70	2.05	W	Display ON

Optical Characteristics

Parameter	Value
Luminance	350 cd/m ² Min.
Color of illumination	Green (Blue-Green)

Environmental Conditions

Parameter	Value
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-50 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (Non operation)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (Non operation)	539m/s ² (55G) 10ms

Physical Specifications

Parameter	Value	*ANK(Alphabet, Numeric, Kana)
Number of char.	40 (20 x 2)	
Built-in Fonts	5 x 7 ANK, International	
Display area	102.6 x 18.8 mm (X x Y)	
Character size	3.8 x 9.2 mm (X x Y)	
	Underline is not included.	
Character pitch	5.2 mm	
Line pitch	9.6 mm	
Weight	About 70 g	

Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

Pin Assignment (Parallel)

Pin No	Signal	Pin No	Signal
1	GND	2	VCC
3	NC	4	RS
5	R/W(WR)	6	E(RD)
7	DB0	8	DB1
9	DB2	10	DB3
11	DB4	12	DB5
13	DB6	14	DB7

(Synchronous Serial)

Pin No	Signal
1	VCC
2	SI/SO
3	GND
4	STB
5	SCK
6	NC

Functions

Parameter	Value
Command compatible with	HD44780 LCD controller
Display ON/OFF	
Brightness Control	
Cursor ON/OFF	
8 User definable character font	
etc.	