



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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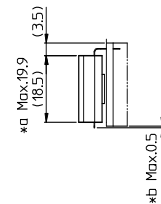
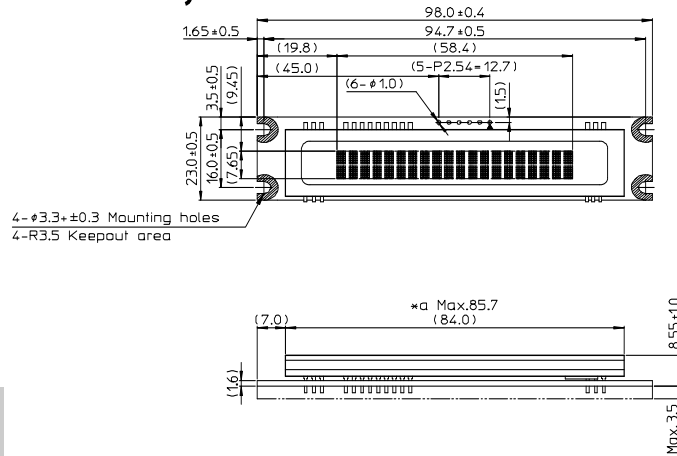
CU20024-UX3J

SIMPLIFIED DATASHEET

Features

20 character x 2 line display LCD compatible module.
Compact version of CU20025-UX1J.

Physical dimension



() Reference only
Unit:mm
*a Included extra frit glass
*b Ensure conductive / metallic surfaces do not contact pin stubs.

Get full specification



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Specifications

Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage	VIH1	2.0	-	VCC	VDC	VCC-VSS= 5.0 V
SCK, STB	VIL1	VSS	-	0.8		
Logic Input Voltage	VIH2	0.7VCC	-	VCC	VDC	VCC-VSS= 5.0 V
SI/SO	VIL2	VSS	-	0.3VCC		
Power supply Voltage	VCC-VSS	4.75	5.00	5.25	VDC	-

About

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	VDC	IOL = 4 mA
	'H'	VOH	VCC-0.5	-	VDC	IOH = -2 mA
	'L'	VOL	-	0.5	VDC	IOL = 2 mA
Power Supply Current #1	ICC1	-	180	230	mA	Display ON
Power Supply Current #2	ICC2	-	140	180	mA	Display ON
Power Supply Current #3	ICC3	-	7	20	mA	Display OFF
Power Consumption #1		-	0.9	1.2	W	Display ON
Power Consumption #2		-	0.7	0.9	W	Display ON

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

Optical Characteristics

Parameter	Value
Luminance	350 cd/m ² Min.
#1	1000 cd/m ² Typ.
#2	2000 cd/m ² Typ.
Color of illumination	Green (Blue-Green)

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

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
Number of char.	40 (20 x 2)
Matrix format	5 x 7 ANK, International
Display area	58.4 x 7.65 mm (X x Y)
Character size	2.065 x 3.569 mm (X x Y)
Character pitch	2.965 mm
Line pitch	4.081 mm
Weight	About 26 g

Interface

Synchronous Serial (CMOS)

(Synchronous Serial)

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

Functions

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

