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!
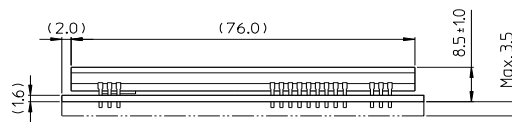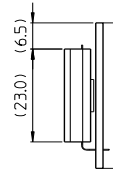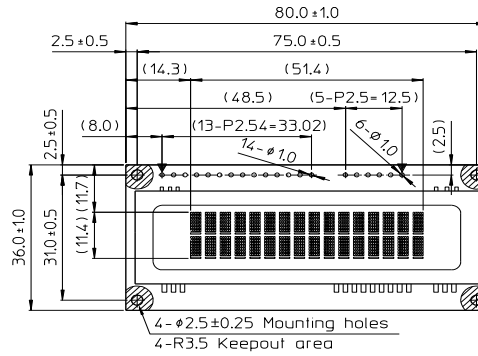

Contact us

CU16025-UX6J

SIMPLIFIED DATASHEET

■ Features

16 character x 2 line display.
LCD compatible, serial interface. Good for use as LCD drop-in replacement, or in various other applications. Higher brightness, from standard (CU16025-UW6J level) 1000cd/m^2 to up to 2000cd/m^2.

Get full specification

Click here to go to request form.

■ Physical dimension

80.0 ±1.0
75.0 ±0.5
2.5 ±0.5
(14.3)   (51.4)
(48.5)   (5-P2.5= 12.5)
(8.0)   (13-P2.54=33.02)
14-ø1.0   6-ø1.0   (2.5)
2.5 ±0.5
36.0 ±1.0
31.0 ±0.5
(11.4) (11.7)

4-ø2.5±0.25 Mounting holes
4-R3.5 Keepout area

(2.0)   (76.0)
8.5 ±1.0
Max.3.5
(1.6)
(6.5)
(23.0)

( ):Reference only
Unit:mm

Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage DB0-DB7, RS,R/W(WR),	VIH1	2.0	-	VCC	VDC	VCC-VSS= 5.0 V
E(RD),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		
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	-	180	240	mA	Display ON
Power Supply Current #2		ICC2	-	150	200	mA	Display ON
Power Supply Current 3		ICC3	-	3	10	mA	Display OFF
Power Consumption #1			-	0.9	1.20	W	Display ON
Power Consumption #2			-	0.75	1.00	W	Display ON

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

■ Optical Characteristics

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)

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

■ Environmental Conditions

Parameter	
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)	980m/s^2 (100G) 6ms

■ Physical Specifications

Parameter	
Number of char.	32 (16 x 2)
Matrix format	5 x 7 ANK, International
Display area	51.4 x 11.4 mm (X x Y)
Character size	2.275 x 4.759 mm (X x Y)
	Underline is not included.
Character pitch	3.275 mm
Line pitch	5.991 mm
Weight	About 30 g

■ Interface

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

■ Pin Assignment (Parallel)

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

(Synchronous Serial)

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

■ Functions

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