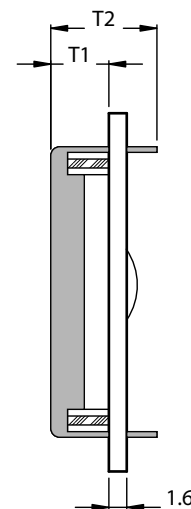
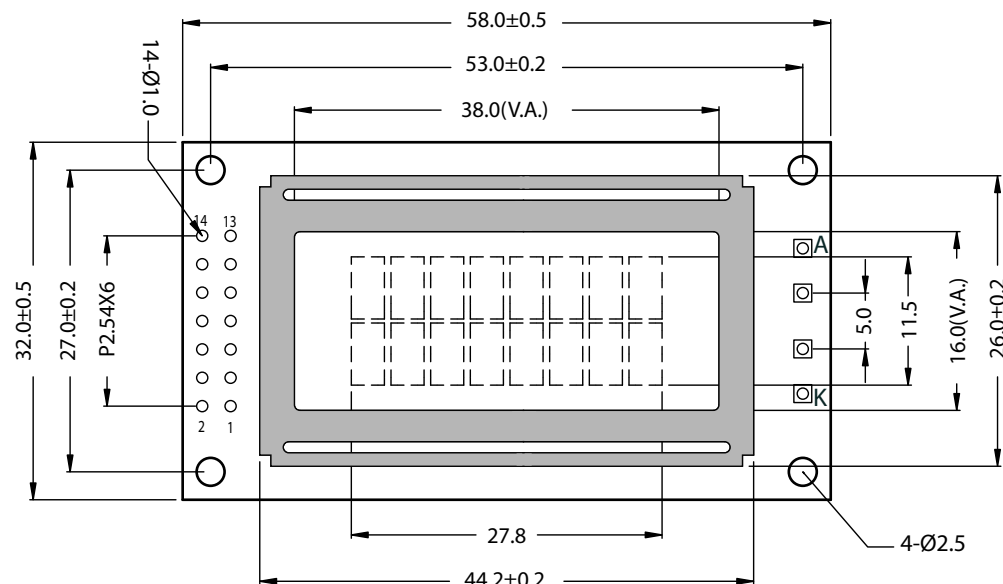


LEMOBIZ



PIN NO	Symbol
1	VSS
2	VDD
3	V0
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

1. 2-line x8 characters display; 5x8 dots with cursor
2. Built-in controller (KS0066U or Equivalent)
3. +5V power supply(Also available for +3.3V)
4. 1/16 duty cycle;1/5bias;
5. TN, HTN, STN or FSTN mode
6. BKL to be driven by pin1,pin2,or pin15,pin16,or A,K

The diagram illustrates the internal connections of the LCD module. It features three main components: the LCD CONTROLLER AND DRIVER, the LCD PANEL, and the LED BKL (Backlight).

- Inputs to the LCD CONTROLLER AND DRIVER:** VDD, VSS, V0, RS, R/W, E, and a data bus DB0-DB7 (indicated by a double-headed arrow).
- Connections to the LCD PANEL:** The controller sends COM signals to the panel and receives SEG signals from the panel.
- LED BKL:** The controller provides power to the LED BKL through pins A and K.

Display position	1	2	3	---	---	---	---	7	8
DDR4 address	00	01	02	---	---	---	---	06	07H
DDR4 address	40	41	42	---	---	---	---	46	47H

LCD module thickness	T1	T2	UNIT
<i>Without or EL backlight</i>	5.2	9.5	mm
<i>With edge LED backlight</i>	----	-----	mm
<i>With LED bottom backlight</i>	9.2	13.5	mm

Item	Standard	Unit
Module dimension	58.0x32.0	mm
Viewing area	38.0x16.0	mm
Dot size	0.56x0.66	mm
Character size	2.96x5.56	mm

Item	Symbol	Standard			Unit
		Min	Typ	Max	
<i>Input voltage</i>	<i>VI</i>	-0.3	-----	5.5	V
<i>Power supply</i>	<i>VDD-VSS</i>	-0.3	-----	VDD	

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5V	4.7	5.0	5.5	V
		+3.3V	2.7	3.3	5.3	V
Supply current	IDD	VDD=5V	-----	1.5	3	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	4.8	5.0	5.3	V
		0 °C	4.6	4.8	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.2	4.3	4.5	
		70°C	4.1	4.2	4.3	
LED forward voltage	VF	25°C	-----	4.2	-----	V
LED forward current	IF	25°C	-----	60	-----	mA
EL power supply current	IEL	VEL=110V AC 400Hz	-----	-----	-----	mA