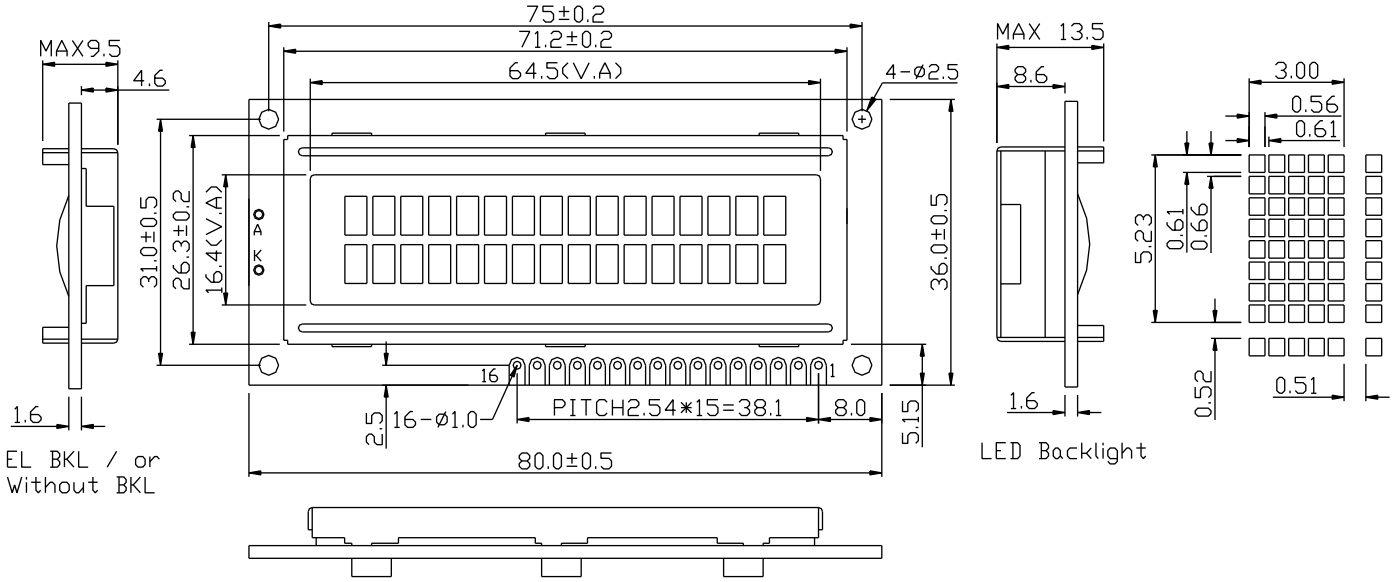
Outline Dimension



Feature

1. *5X8 dots with cursor*
2. *Built-in controller (KS0066U or Equivalent)*
3. *+5V power supply(Also available for +3.0V)*
4. *1/8 duty cycle*
5. *BKL to be driven by pin1,pin2,or pin15,pin16 or A,K*
6. *N.V.optional*

Interface pin connections

PIN NO	Symbol	Function
1	VSS	Power supply
2	VDD	
3	V0	Contrast adjustment
4	RS	H/L Register select signal
5	R/W	H/L Read/Write signal
6	E	H/L Enable signal
7	DB0	*H/L Data bus for 4 bit or 8 bit mode*
8	DB1	
9	DB2	
10	DB3	
11	DB4	
12	DB5	
13	DB6	
14	DB7	
15	LED+	+4.2V for BKL
16	LED-	Power supply for BKL(0V)

THICKNESS

VERSION	T1	T1	UNIT
EL&NO BACKLIGHT	4.6	9.5	mm
LED BACKLIGHT	8.6	13.0	

Mechanical Data

Item	Standard	Unit
Module dimension	*84.0x36.0*	*mm*
Viewing area	*64.5x16.4*	*mm*
Dot size	*0.56x0.61*	*mm*
Character size	*3.00x5.26*	*mm*

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	*VDD-VSS*	-0.3	--------	5.5	V
Input voltage	*VI*	-0.3	--------	VDD	

Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	*VDD*	+5V	4.5	5.0	5.5	V
		+3.3V	2.7	3.0	3.3	V
Supply current	*IDD*	VDD=5V	------	1.5	3.0	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20ºC	------	------	------	V
		0 ºC	4.7	4.7	5.0	
		25ºC	4.3	4.5	4.7	
		50ºC	4.1	4.3	4.5	
		70ºC	------	-------	------	
LED forward voltage	*VF*	25ºC	------	4.2	4.6	V
LED forward current	*IF*	25ºC	------	120	------	mA
EL power supply current	IEL	VEL=110V AC 400Hz	-----	-------	------	mA

Display character address code:

Display position

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DDRAM address	*00*	*01*	*02*	---	---	---	---	---	---							*0FH*
DDRAM address	*40*	*41*	*42*	---	---	---	---	---	---							*4FH*