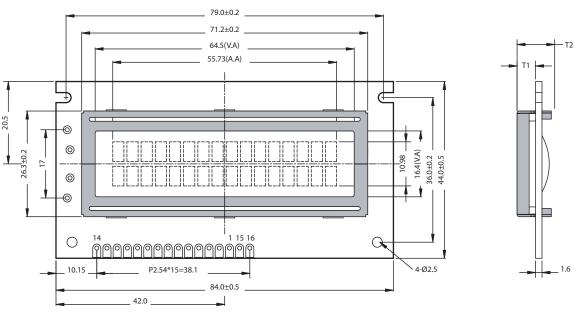
LONGTECH DISPLAY

LCM1602B



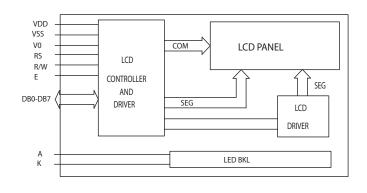
PIN NO	Symbol
15	Α
16	K
1	VSS
2	VDD
3	V0
4	RS
5	R/W
6	Е
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7

Pin connections

Feature

- 1. 2-line x16 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

Block diagram:



Display character address code

Display position										
	1	2	3	4	5	 	 	14	15	16
DDRAM address	00	01	02			 	 	(EΗ	0FH
DDRAM address	40	41	42			 	 	4	ŀΕΗ	4FH

Mechanical thinkness

LCD module thinkness	T1	T2	UNIT
Without or EL backlight	4.6	9.5	mm
With edge LED backlight	8.6	13.5	mm
With LED bottom backlight	8.6	13.5	mm

Mechanical data

Item	Standard	Unit
Module dimension	84.0x44.0	mm
Viewing area	64.5x16.4	mm
Dot size	0.56x0.61	mm
Character size	3.00x5.23	mm

Absolute Maximum Rating

DOTS DETAIL

Item	Symbol		Unit			
Itom	Cymbol	Min	Тур	Max	Offic	
Input voltage	VI	-0.3		5.5	W	
Power supply	VDD-VSS	-0.3		VDD	V	

Electronical characteristics

lka ma	Currah al	Condition	5	Unit		
Item	Symbol		Min	Тур	Max	Offic
	VDD	+5V	4.7	5.0	5.5	V
Input voltage		+3.3V	2.7	3.3	5.3	V
Supply current	IDD	VDD=5V		1.5	4	mA
	VDD-V0	-20°C	4.8	5.0	5.3	V
Recommended LCD driving voltage		0 °C	4.6	4.8	5.0	
for normal temp		25°C	4.3	4.5	4.7	
version module		50°C	4.2	4.3	4.5	
		70°C	4.1	4.2	4.3	
LED forward voltage	VF	25°C		4.2	50	V
LED forward current	IF	25°C		120		mA
EL power supply current	IEL	VEL=110V AC 400Hz				mA