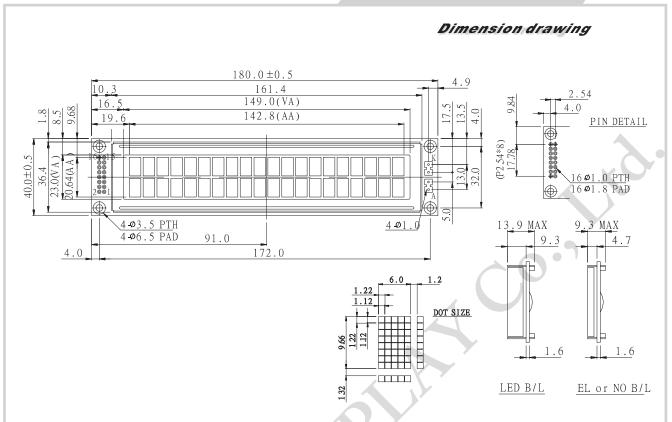
WH2002L Character20x2



Feature

- 1.5x8 dots includes cursor
- 2. Built-in controller (ST 7066 or Equivalent)
- 3. +5V power supply (Also available for +3V)
- 4. 1/16 duty cycle
- 5. LED can be driven by pin1,pin2,pin15,pin16 or A and K
- 6. N.V. optional for +3V power supply

Pin NO.	Symbol	Function								
1	Vss	GND								
2	Vdd	+3V or + 5V								
3	Vo	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 line								
8	DB1	H/L Data bus line								
9	DB2	H/L Data bus line								
10	DB3	H/L Data bus line								
11	DB4	H/L Data bus line								
12	DB5	H/L Data bus line								
13	DB6	H/L Data bus line								
14	DB7	H/L Data bus line								
15	A/Vee	+4.2V for LED(RA=0 Ω)/Negative Voltage output								
16	K	Power supply for B/L (0V)								

Mechanical Data

Item	Standard Value						
Module Dimension	180.0x40.0	mm					
Viewing Area	149.0x23.0	mm					
Mounting hole	172.0x 32.0	mm					
Character Size	6.0x9.66	mm					

Absolute Maximum Rating

Item	Symbol	Stan	Linit			
rtem	Syllibol	min.	typ.	max.	Unit	
Power Supply	VDD-VSS	-0.3		7.0	٧	
Input Voltage	VI	-0.3		VDD	V	

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Stan					
item	Symbol	Condition	min.	typ.	max.	Unit		
Innut \/altaga	VDD	VDD=+5V	4.7	5.0	5.3	V		
Input Voltage	VDD	VDD=+3V	2.7	3.0	5.3	٧		
Supply Current	IDD	VDD=5V		1.5	1.8	mΑ		
	VDD-V0	-20°C	5.0 5.1		5.7			
Recommended LC Driving		o°C	4.6	4.8	5.2			
Voltage for Normal Temp.		25°C	4.1	4.5	4.7	٧		
Version module		50°C	3.9	4.2	4.5			
		70°C	3.7	3.9	4.3			
LED Forward Voltage	VF	25°C		4.2	4.6	٧		
LED Forward Current	IF	25°C		360	720	mΑ		
EL Power Supply Current IEL		Vel=110VAC;400Hz			5.0	mA		

Display Character Address Code:

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	 	20
DD RAM Address	00	01			Ė			Ė							13
DD RAM Address	40	41													53

