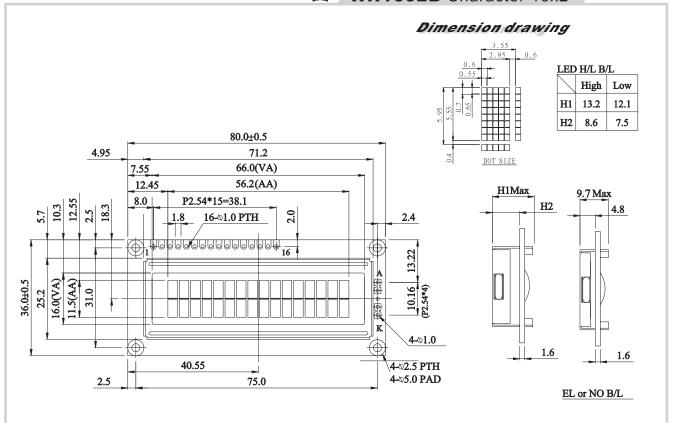
# WH1602B Character 16x2



#### 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
- 7.Optional:smaller character size (2.95x4.35mm)
- 8. WH1602B2: total thickness 10.0mm

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	Е	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 $\Omega$ )/Negative Voltage output
16	K	Power supply for B/L (0V)

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	80.0x36.0	mm
Viewing Area	66.0x16.0	mm
Mounting hole	75.0x 31.0	mm
Character Size	2.95x5.55	mm

# Absolute Maximum Rating

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

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

#### Electronical Characteristics

Item	Symbol	Conc	dition	Stan																									
Item	Symbol	Conc	aition	min.	typ.	max.	Unit																						
Input Voltage	VDD	VDD:	=+5V	-5V 4.7 5.0			٧																						
Supply Current	IDD	VDD	)=5V		1.2	1.5	mA																						
		-20	ာိင			5.2																							
Recommended LC Driving	VDD-V0	0°	c'			4.2																							
Voltage for Normal Temp.		25	°C		3.8		٧																						
Version module		50	°C	3.5																									
		70	°C	3.2																									
LED Forward Voltage	VF	25°C		25°C		25°C		25°C		25°C		25°C		25°C		25°C		25°C		25°C		25°C		25°C			4.2	4.6	V
LED Forward Current	IF	25°C	Array Edge		100 20	40	mΑ																						
EL Power Supply Current	IEL	Vel=110VAC;400Hz				Vel=110VAC;400Hz		Vel=110VAC;400Hz		Vel=110VAC;400Hz		Vel=110VAC;400Hz		, ,				5.0	mΑ										

# Display Character Address Code:

Display position		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM	Address	00	01														0F
DD RAM	Address	40	41														4F



Character Type