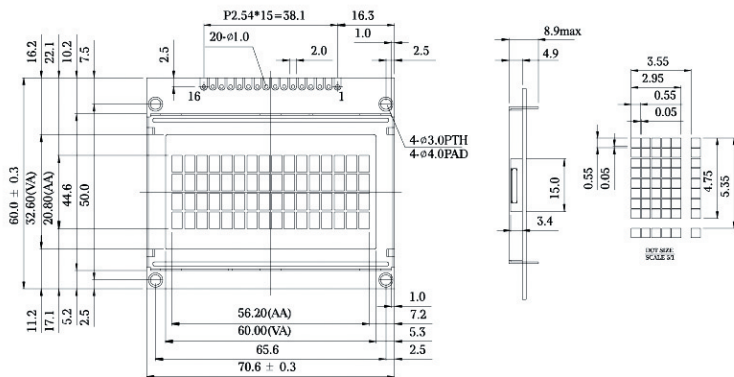


## WH1604B Character 16x4

## Dimension drawing



## Feature

- 5x8 dots includes cursor
- Built-in controller (KS 0066 or Equivalent)
- +5V power supply (Also available for +3V)
- 1/16 duty cycle
- B/L to be driven by pin1, pin2, or pin15, pin16 or A and K
- 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-OΩ)/Negative Voltage output
16	K	Power supply for B/L (0V)

## Mechanical Data

Item	Standard Value	Unit
Module Dimension	70.6x60.0	mm
Viewing Area	60.0x32.6	mm
Mounting hole	65.6x 50.0	mm
Character Size	2.95x4.75	mm

## Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	7.0	V
Input Voltage	VI	-0.3	---	VDD	V

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

## Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	VDD=+5V	4.7	5.0	5.3	V
		VDD=+3V	2.7	3.0	5.3	V
Supply Current	IDD	VDD=5V	---	1.65	---	mA
		-20°C	5.0	5.1	5.7	
Recommended I.C Driving Voltage for Normal Temp. Version module	VDD-V0	0°C	4.6	4.8	5.2	V
		25°C	4.1	4.5	4.7	
		50°C	3.9	4.2	4.5	
		70°C	3.7	3.9	4.3	
EL Power Supply Current	IEL	Veh=110VAC, 400Hz	---	---	5.0	mA

## 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
DD RAM Address	10:11															1F
DD RAM Address	50:51															5F