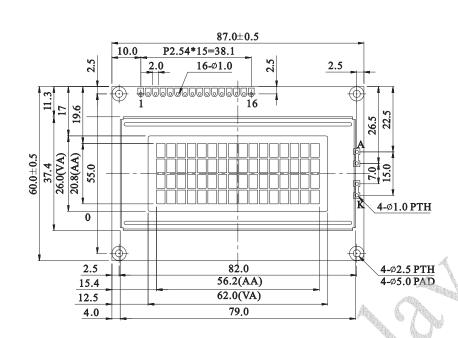
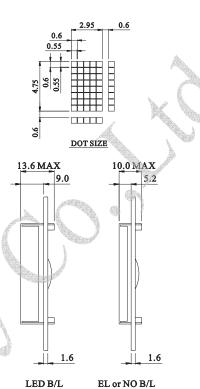
# WH1604A Character 16x4

# Dimension drawing





Character type

# Feature

- 1.5x8 dots includes cursor
- 2. Built-in controller (KS 0066 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 $\Omega$ )/Negative Voltage output								
16	К	Power supply for B/L (0V)								

#### Mechanical Data

ne snametr Ba	* * * * * * * * * * * * * * * * * * * *		
Item	Standard Value	Unit	
Module Dimension	87.0×60.0	mm	
Viewing Area	62.0x26.0	mm	
Mounting hole	82.0x55.0	mm	
Character Size	2.95x4.75	mm	

#### Absolute Maximum Rating

Item	Cumbal	Stan	Unit			
item	Symbol	min.	min. typ.		Offic	
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

Lietti Ollitai Ollai atteli Stits												
Item	Symbol	Condition	Stan									
item	Symbol	Condition	min.	typ.	max.	Unit						
Input Voltage	\/DD	VDD=+5V	4.7	5.0	5.3	V						
Supply Current	VDD	VDD= +3V	2.7	3.0	5.3	٧						
	IDD	VDD=5 V		1.0 1		mΑ						
	VDD-V0	-20°C	5.0	5.1	5.7							
Recommended LC Driving		0°C	4.6	4.8	5.2							
Voltage for Normal Temp.  Version module		25°C	4.1	4.5	4.7	V						
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	V						
LED Forward Current   IF		25°C		220	440	mΑ						
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA						

## Display Character Address Code:

Dispility Character						Audit Coo Couc							-			
Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01										П				0F
DD RAM Address																4F
DD RAM Address		11	Г		Г	Г	Г		Г	Г	Г	Г				1F
DD RAM Address	50	51														5F

