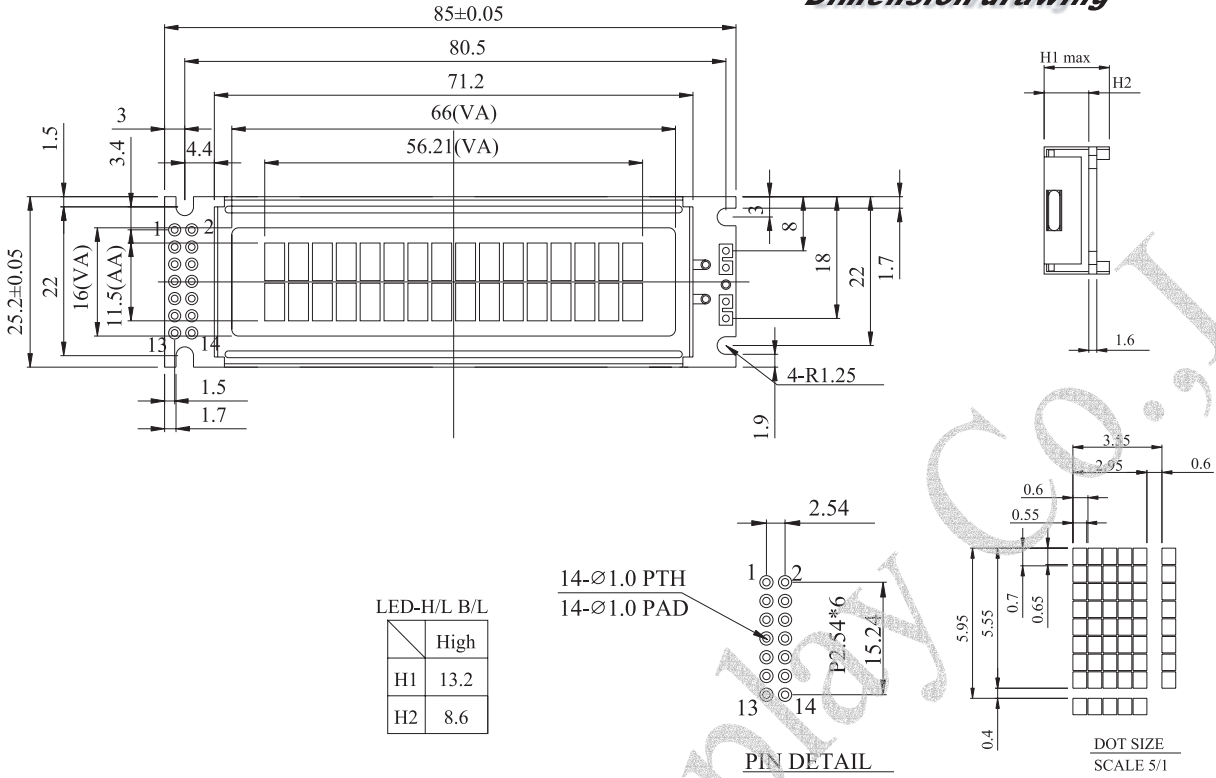




# WH1602P Character 16x2

## Dimension drawing



### Feature

- 5x8 dots includes cursor
- Built-in controller (KS0066 or Equivalent)
- +5V power supply
- 1/16 duty cycle
- Optional: smaller character size (2.95x4.35mm)

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	85.0x25.2	mm
Viewing Area	66.0x16.0	mm
Mounting hole	80.5x22.0	mm
Character Size	2.95x5.55	mm

Character type

Pin NO.	Symbol	Function
1	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E	H→L Enable signal
10	R/W	H/L Read/Write signal
11	RS	H/L Register select signal
12	Vo	Contrast Adjustment
13	Vss	GND
14	Vdd	Power Supply(+5V)

### 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	
Supply Current	IDD	VDD=5V	---	1.2	1.5	mA	
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	---	---	5.3	V	
		0°C	4.7	4.8	4.9		
		25°C	4.6	4.7	4.8		
		50°C	4.3	4.4	4.6		
		70°C	4.1	4.2	4.4		
LED Forward Voltage	VF	25°C	---	4.2	4.6	V	
LED Forward Current	IF	25°C	Array	---	100	---	mA
			Edge	---	20	40	
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	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F