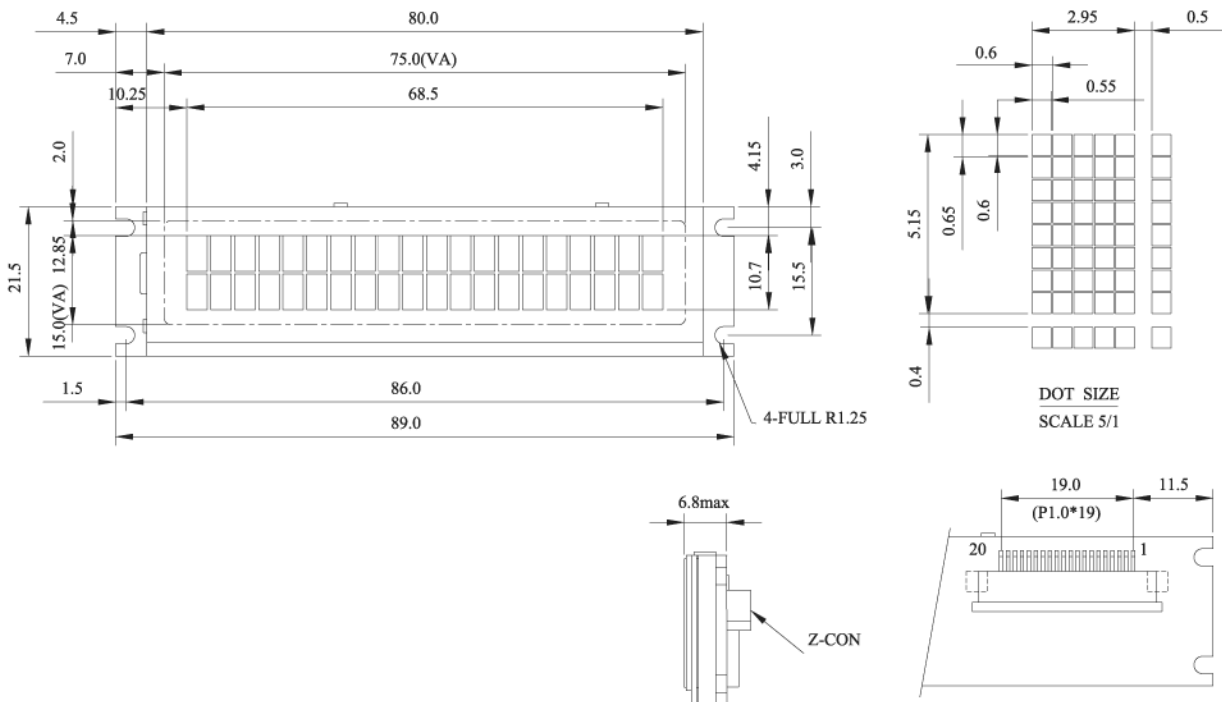




WH2002D Character 20x2

Dimension drawing



Feature

- 1. 1.5x8 dots include cursor
- 2. Built-in controller KS0066 or Eguivalent
- 3. +5V power supply (Also available for +3V)
- 4. 1/16 duty cycle
- 5. LED can be driven by Pin17, Pin18
- 6. N.V option for +3V power supply

Pin NO.	Symbol	Function
1	NC	No Connection
2	NC	No connection
3	Vss	GND
4	Vdd	+3 or +5V
5	Vo	contrast Adjustment
6	RS	H/L Register select signal
7	R/W	Data Read/write
8	E	H→L Enable signal
9	DB0	Data bit 0
10	DB1	Data bit 1
11	DB2	Data bit 2
12	DB3	Data bit 3
13	DB4	Data bit 4
14	DB5	Data bit 5
15	DB6	Data bit 6
16	DB7	Data bit 7
17	VLED+	Power supply for LED+
18	VLED-	Power supply for LED-
19	Vee	Negative voltage output
20	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	89.0x21.5	mm
Viewing Area	75.0x15.0	mm
Mounting hole	86.0x15.5	mm
Dot Pitch	2.95x5.15	mm

Character type

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	6.7	V
Input Voltage	VI	-0.3	---	VDD	V

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

Electronical Characteristics

Item	Symbo	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	VDD=+5V	4.75	---	5.25	v
Supply Current	IDD	VDD= +5V	---	1.2	---	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	---	---	5.2	V
		0°C	---	---	4.5	
		25°C	---	4.2	---	
		50°C	---	3.8	---	
		70°C	3.5	---	---	

Display Character Address Code :

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DD RAM Address	00	01														0F				13
DD RAM Address	40	41														4F				53

