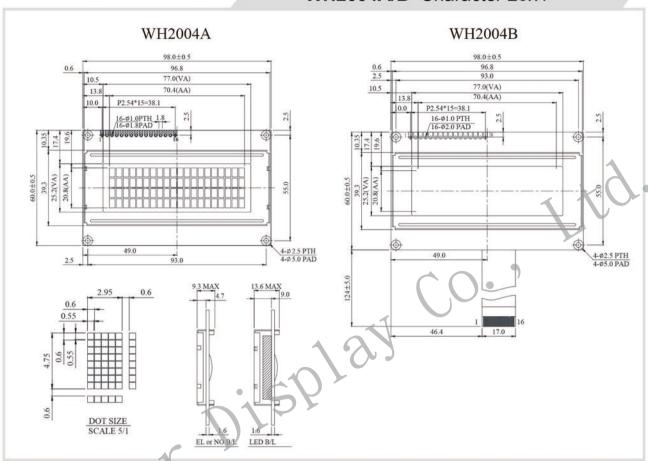
# WH2004A/B Character 20x4



#### **Feature**

- 1.5x8 dots includes cursor
- 2.Bulit-in controller (ST7066 or Equivalent)
- 3.+5V power supply (Also available for +3V)
- 4.N.V, optional for +3V power supply
- 5.1/16 duty cycle
- 6 LED can be driven by PIN1, PIN2, PIN15, PIN16 or A and K
- 7.Interface: 6800, SPI, I2C 8.WH2004B: FFC connector 9.WH2004F: 7 colors LED option

#### WH2004A WH2004B

Pin No.	Symbol	Description	Pin No.	Symbol	Description
1	Vss	Ground	1	Vss	Ground
2	V <sub>DD</sub>	Power supply for logic	2	V <sub>DD</sub>	Power supply for logic
3	Vo	Contrast Adjustment	3	Vo	Contrast Adjustment
4	RS	Data/ Instruction select signal	4	RS	Data/ Instruction select signal
5	R/W	Read/Write select signal	5	RW	Read/Write select signal
6	E	Enable signal	6	E	Enable signal
7	DB0	Data bus line	7	DB0	Data bus line
8	DB1	Data bus line	8	DB1	Data bus line
9	DB2	Data bus line	9	DB2	Data bus line
10	DB3	Data bus line	10	DB3	Data bus line
11	DB4	Data bus line	11	DB4	Data bus line
12	DB5	Data bus line	12	DB5	Data bus line
13	DB6	Data bus line	13	DB6	Data bus line
14	DB7	Data bus line	14	DB7	Data bus line
15	A	Power supply for B/L +	15	A	Power supply for B/L +
16	K	Power supply for R/I -	16	K	Power supply for B/L -

#### **Mechanical Data**

Item	Standard Value	Unit	
Module Dimension	98.0 x 60.0	mm	
Viewing Area	77.0 x 25.2	mm	
Mounting Hole	93.0 x 55.0	mm	
Character Size	2.95 x 4.75	mm	

### **Electrical Characteristics**

Item	Cumbal	Standard Value	Unit	
item	Symbol	typ.		
Input Voltage	VDD	3/5	V	
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	VDD-VO	4.50	V	

## **Display Character Address Code**

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	 - 2	20
DD RAM Address	00						Ė	Ť				I			13
DD RAM Address	40	41	42												53
DD RAM Address	14	15	16									П		T	27
DD RAM Address	54	55	56												67