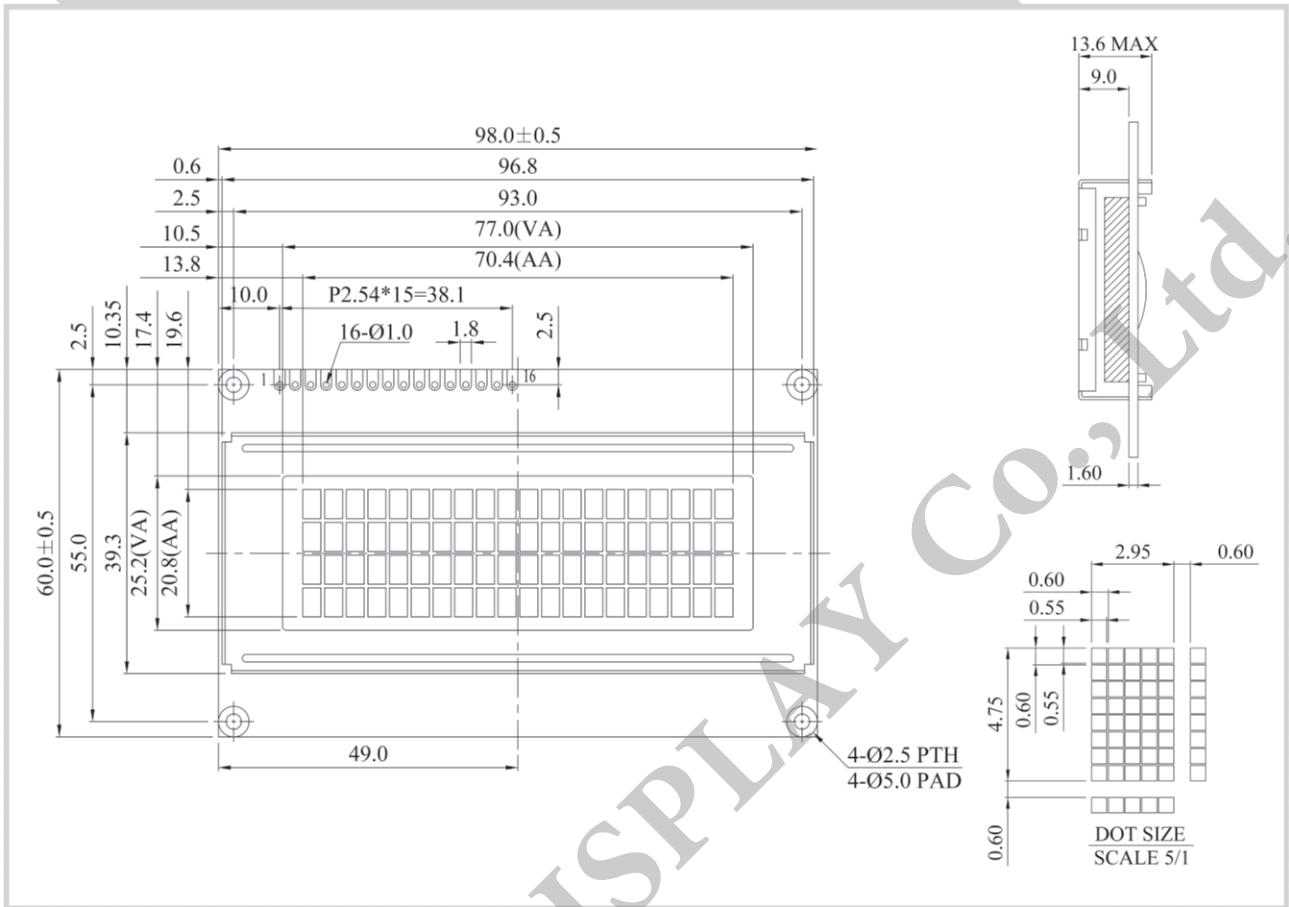


WH2004A VATN Character 20x4



Feature

1. 1.5x8 dots includes cursor
2. Built-in controller (ST7066 or Equivalent)
3. 3.5V power supply only
4. 1/16 duty cycle
5. LED type : Green / Blue / Red / White / Y- G
6. LED can be driven by PIN1, PIN2 or K
7. Interface : Option 6800, SPI, I2C

Pin No.	Symbol	Description
1	V _{SS}	Ground
2	V _{DD}	Supply Voltage for logic
3	VO	Operating voltage for LCD
4	RS	H: DATA, L: Instruction code
5	R/W	Read/Write select signal
6	E	Chip enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	V _{ee}	Negative Voltage Output
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	Symbol	Standard Value	Unit
		typ.	
Input Voltage	V _{DD}	5.0	V
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	V _{DD-VO}	6.5	V

Display Character Address Code

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	---	20
DD RAM Address	00	01	02												13
DD RAM Address	40	41	42												53
DD RAM Address	14	15	16												27
DD RAM Address	54	55	56												67