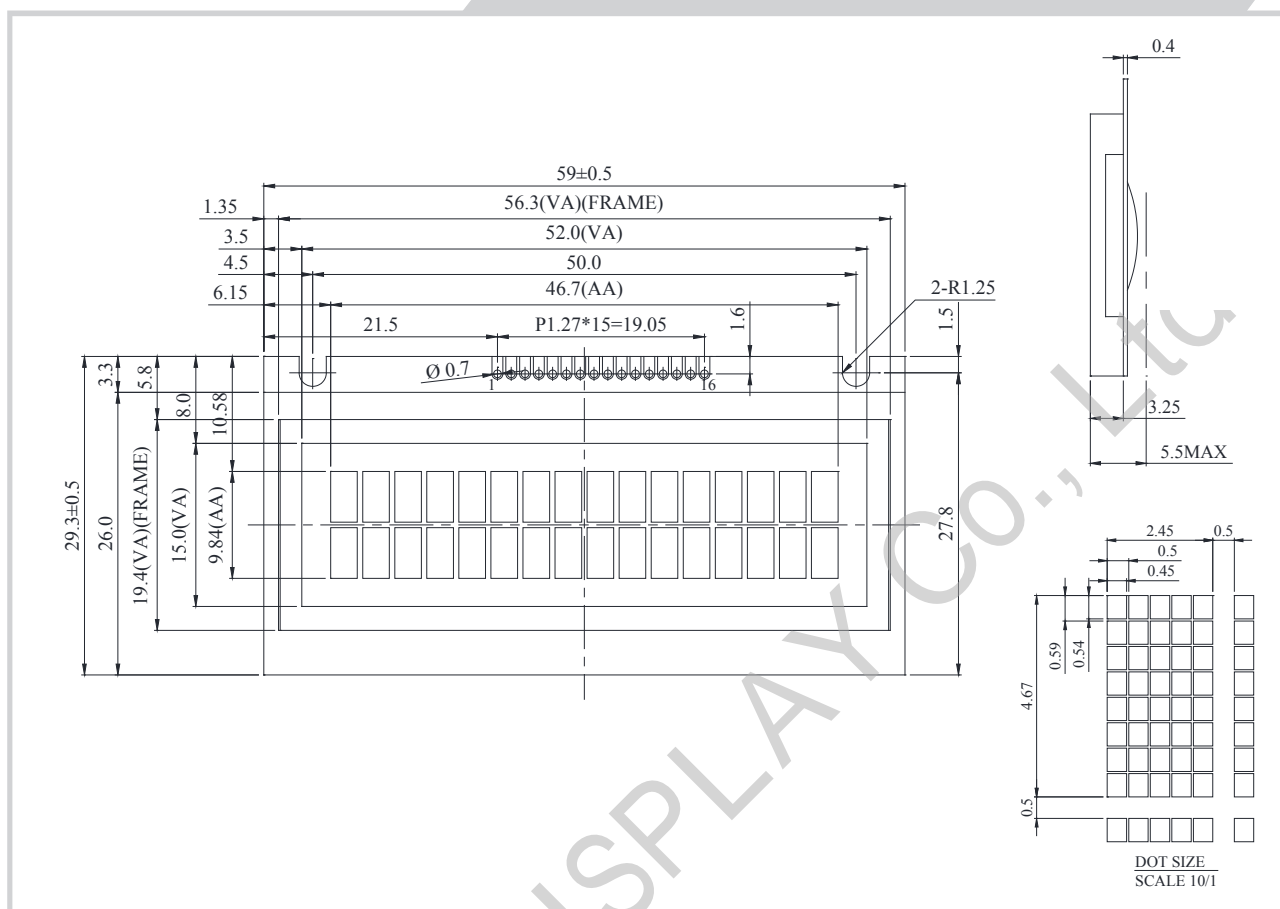


WH1602S Character 16x2



Feature

1. 1.5x8 dots includes cursor
2. Built-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. Interface : 6800, SPI, I2C

| Pin No. | Symbol | Description |
|---------|-----------|---------------------------------|
| 1 | V_{LED} | Power supply for B/L - |
| 2 | V_{SS} | Ground |
| 3 | V_{DD} | Power supply for logic |
| 4 | V_O | Contrast Adjustment |
| 5 | RS | Data/ Instruction select signal |
| 6 | R/W | Read/Write select signal |
| 7 | E | Enable signal |
| 8 | DB0 | Data bus line |
| 9 | DB1 | Data bus line |
| 10 | DB2 | Data bus line |
| 11 | DB3 | Data bus line |
| 12 | DB4 | Data bus line |
| 13 | DB5 | Data bus line |
| 14 | DB6 | Data bus line |
| 15 | DB7 | Data bus line |
| 16 | NC | No connection |

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 59.0 x 29.3 | mm |
| Viewing Area | 52.0 x 15.0 | mm |
| Mounting Hole | 50.0 x 27.8 | mm |
| Character Size | 2.45 x 4.67 | mm |

Electrical Characteristics

| Item | Symbol | Standard Value | Unit |
|---|--------|----------------|------|
| | | typ. | |
| Input Voltage | VDD | 3/5 | V |
| Recommended LCD Driving Voltage for Normal Temp. Version module @25°C | VDD-VO | 3.70 | V |

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 | 02 | | | | | | | | | | | | | 0E | 0F |
| DD RAM Address | 40 | 41 | 42 | | | | | | | | | | | | | 4E | 4F |