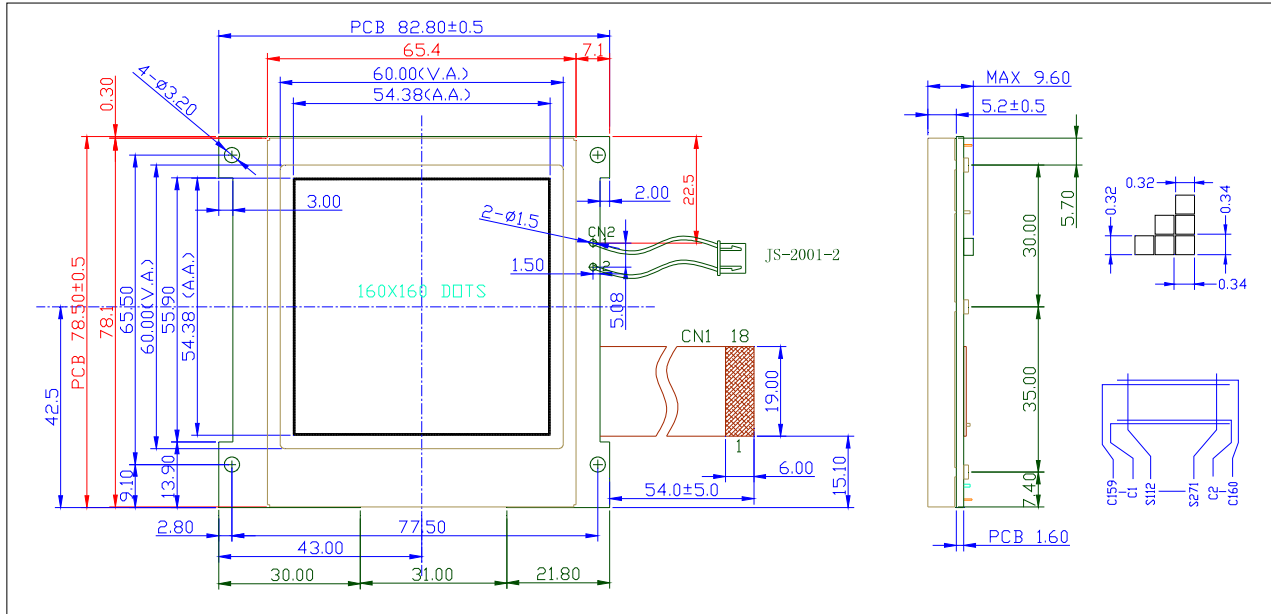
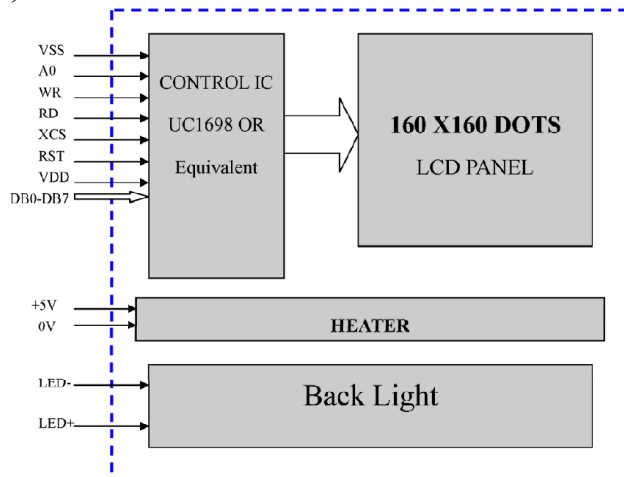


## 1, OUTLINE DRAWING



## 2, BLOCK DIAGRAM



## 3, DISPLAY CHARACTERISTICS

|                  |                             |
|------------------|-----------------------------|
| LCD Display mode | FSTN-Transflective-Positive |
| Driving method   | 1/160duty, 1/10 bias        |
| Backlight        | LED, White                  |

## 4, ELECTRICAL CHARACTERISTICS

| Item                          | Symbol | Min.   | Typ. | Max. |
|-------------------------------|--------|--------|------|------|
| Logic Power Supply Voltage(V) | VDD    |        | 3.3  |      |
| Input Voltage(V)              | Vih    | 0.7VDD |      | VDD  |
| Output Voltage(V)             | Vil    | 0      |      | 0.6  |
| LCD Driving Voltage(V)        | Vlcd   |        | 16.5 |      |

## 5, TERMINAL FUNCTIONS

### CN1:

| Pin  | Name    | Level | Functions          |
|------|---------|-------|--------------------|
| 1    | Vss     | -     | Power supply (GND) |
| 2    | RS      | H/L   | Data/Command       |
| 3    | WR      | H/L   | Write              |
| 4    | RD      | H/L   | Read               |
| 5    | /CS     | L     | Chip select        |
| 6    | /RST    | L     | Reset signal       |
| 7    | VDD     | -     | Power supply       |
| 8-15 | DB0-DB7 | H/L   | Data bus           |
| 16   | LEDK    | -     | LED Power supply K |
| 17   | NC      | -     | No connection      |
| 18   | LEDA    | -     | LED Power supply A |

### CN2:

| Pin | Name | Level | Functions               |
|-----|------|-------|-------------------------|
| 1   | V-   | 0V    | Power supply for heater |
| 2   | V+   | +5V   | Power supply for heater |

## 6, BACKLIGHT CHARACTERISTICS

| Item                          | Symbol | Min. | Typ.  | Max. | Condition |
|-------------------------------|--------|------|-------|------|-----------|
| Forward Current (mA)          | If     |      | 90    |      | Vf=3.3V   |
| Luminous (cd/m <sup>2</sup> ) | IV     |      | 400   |      |           |
| Color                         |        |      | White |      |           |