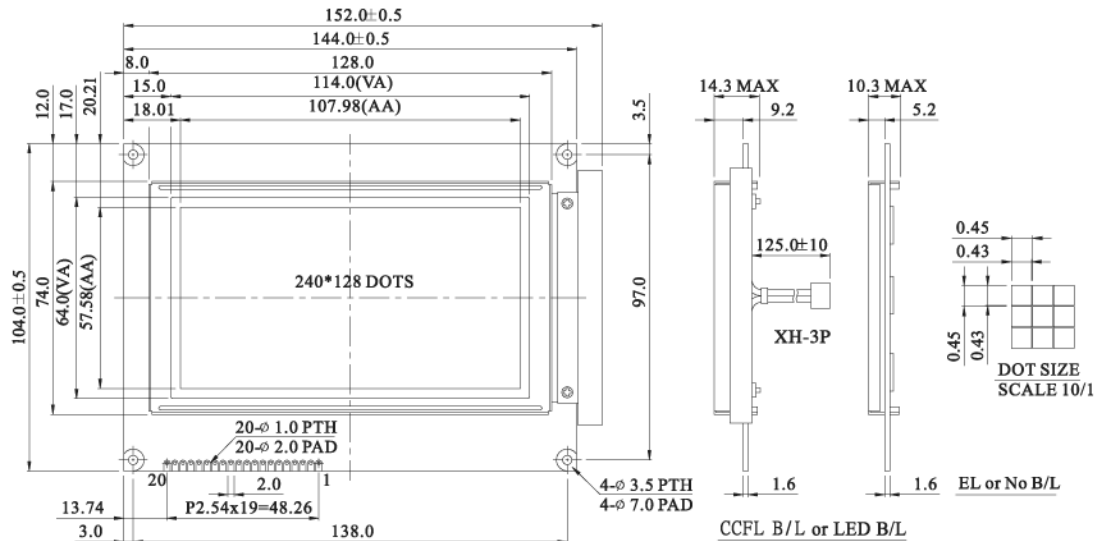




# WG240128D Graphic 240x128dots

## Dimension drawing



### Feature

1. Built-in controller SANYO- (LC7981 or equivalent)
2. +5V power supply
3. 1/128 duty cycle
4. Built-in N.V

| Pin NO | Symbol | Function                 |
|--------|--------|--------------------------|
| 1      | Vss    | Power supply (GND)       |
| 2      | Vdd    | Power supply (+5V)       |
| 3      | Vo     | Contrast Adjustment      |
| 4      | RS     | Data /instruction select |
| 5      | RW     | Data read write          |
| 6      | E      | 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     | CS     | Chip select              |
| 16     | RES    | Reset signal             |
| 17     | Vee    | Negative Voltage output  |
| 18     | NC     | No connection            |
| 19     | A      | Power supply for B/L     |
| 20     | K      | Power supply for B/L     |

### Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 144.0x104.0    | mm   |
| Viewing Area     | 114.0x64.0     | mm   |
| Dot Size         | 0.43x0.43      | mm   |
| Dot pitch        | 0.45x0.45      | mm   |

### Absolute Maximum Rating

| Item          | Symbol  | Standard Value |      |      | Unit |
|---------------|---------|----------------|------|------|------|
|               |         | min.           | typ. | max. |      |
| Power Supply  | VDD-VSS | 4.75           | 5.0  | 5.25 | V    |
| Input Voltage | VI      | -0.3           | ---  | VDD  | V    |

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

### Electrical Characteristics

| Item                                    | Symbol | Condition | Standard Value     |      |                    | Unit             |
|---|--------|-----------|--------------------|------|--------------------|------------------|
|   |        |           | min.               | typ. | max.               |                  |
| Input Voltage                           | VDD    | L level   | 0.7V <sub>DD</sub> | ---  | V <sub>DD</sub>    | V                |
|   | VIO    | H level   | ---                | ---  | 0.3V <sub>DD</sub> | V                |
| Supply Current                          | IDD    | VDD=5V    | 0                  | 55   | 60                 | mA               |
| Recommended LC Driving                  |        | 0°C       | 20.3               | 21.4 | 22.5               |                  |
| Voltage for Normal Temp. Version module | VDD-V0 | 25°C      | 18.0               | 19.1 | 20.2               | V                |
|   |        | 50°C      | 17.8               | 18.9 | 20.0               |                  |
| LED Forward Voltage                     | VF     | 25°C      | ---                | 4.2  | ---                | V                |
| LED Forward Current                     | IF     | 25°C      | ---                | 900  | 1800               | mA               |
|   |        | 25°C      | ---                | 250  | 590                | V <sub>rms</sub> |
| CCFL                                    | VF     | 25°C      | ---                | ---  | 5.5                | mA               |
|   | IF     | 25°C      | ---                | ---  | 5.5                | mA               |
| EL                                      | ---    | ---       | ---                | ---  | 5.0                | mA               |

Graphic type