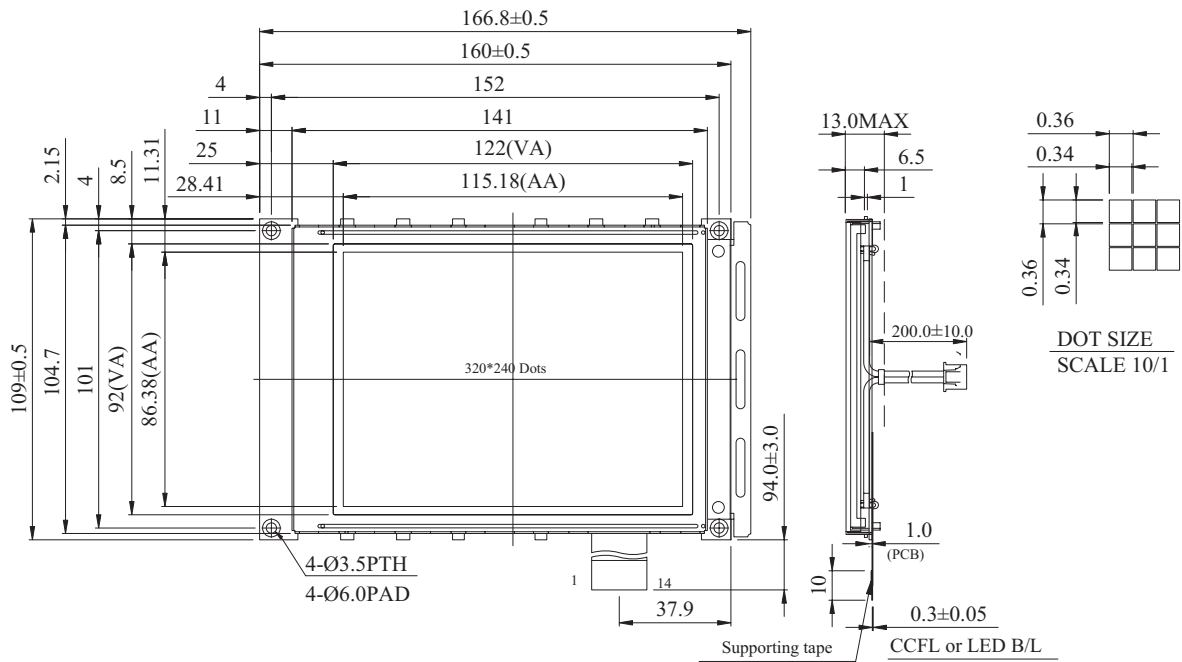




# WG320240A Graphic 320x240dots

## Dimension drawing



### Feature

1. 320x240 dots
2. +5V power supply
3. 1/240 duty cycle
4. No controller
5. Touch screen option (analog type)

### Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 166.8x109.0    | mm   |
| Viewing Area     | 122.0x92.0     | mm   |
| Mounting hole    | 152.0x101.0    | mm   |
| Dot Pitch        | 0.36x0.36      | mm   |

Graphic type

| Pin NO. | Symbol  | Function                                |
|---------|---------|---|
| 1       | DB0     | Data bus line                           |
| 2       | DB1     | Data bus line                           |
| 3       | DB2     | Data bus line                           |
| 4       | DB3     | Data bus line                           |
| 5       | DISPOFF | H:ON L:OFF                              |
| 6       | FRAME   | First line marker                       |
| 7       | M(NC)   | Frame reverse signal (alternate signal) |
| 8       | LP      | Data latch                              |
| 9       | CP      | Data shift                              |
| 10      | Vdd     | Power supply for LOGIC                  |
| 11      | Vss     | GND                                     |
| 12      | Vee     | Power supply for LCD                    |
| 13      | Vo      | Operating voltage LCD driving           |
| 14      | FGND    | Frame ground                            |

### 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.

### Electronical Characteristics

| Item   | Symbol | Condition         | Standard Value |      |      | Unit |
|--|--------|-------------------|----------------|------|------|------|
|  |        |                   | min.           | typ. | max. |      |
| Input Voltage  | VDD    | ---               | 2.7            | ---  | 5.5  | V    |
| Supply Current   | IDD    | VDD=5V            | ---            | 7.5  | ---  | mA   |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-VO | -20°C             | ---            | ---  | 26.1 | V    |
|  |        | 25°C              | ---            | 23.8 | ---  |      |
|  |        | 70°C              | 20.9           | ---  | ---  |      |
| CCFL Starting  | VFLS   | 25°C              | ---            | 600  | ---  | Vrms |
| CCFL Driving Voltage   | VFLD   | 25°C              | ---            | 268  | ---  | Vrms |
| CCFL Driving Current   | IFLD   | VFQ=450Vrms 30KHZ | ---            | 5.0  | ---  | mAms |
| LED Forward Voltage  | VF     | 25°C              | ---            | 4.2  | 4.6  | V    |
| LED Forward Current  | IF     | 25°C              | ---            | 180  | 360  | mA   |
| EL Power Supply Current  | IEF    | Vel=110VAC,400Hz  | ---            | ---  | 5.0  | mA   |