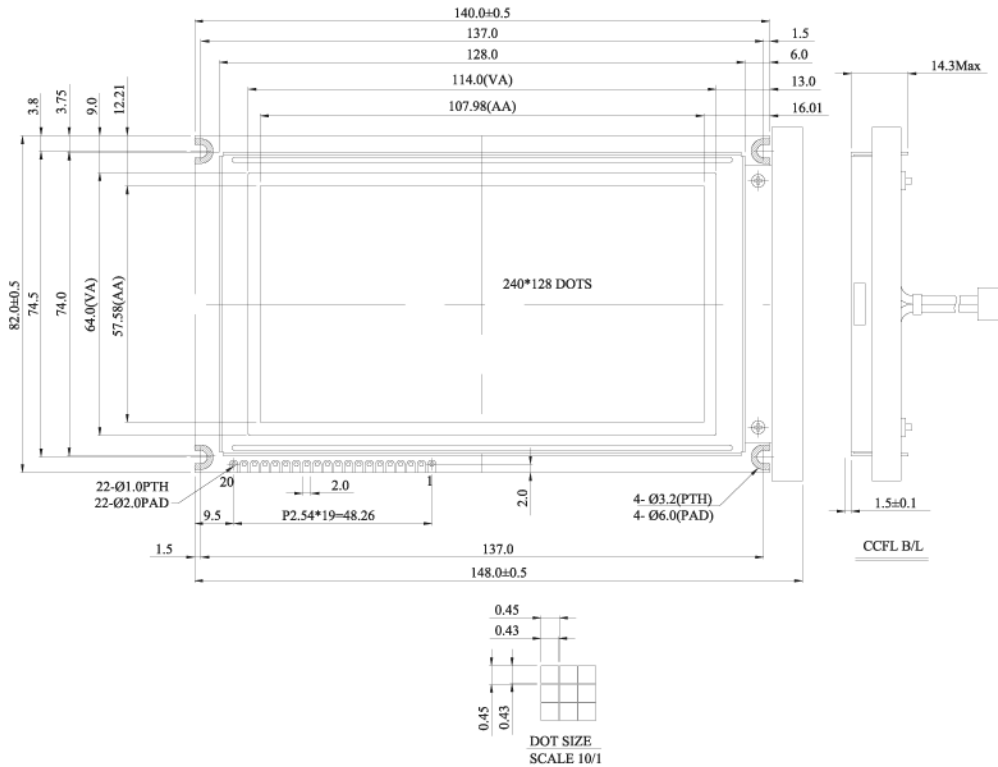


WG240128R Graphic 240x128dots

Dimension drawing



Graphic type

Feature

1. Built-in controller RA8820 or equivalent
2. +5V power supply 2.7~5.0(selective)
3. 1/128 duty cycle
4. Built-in N/V
5. Chinese Version
6. Controller RA8822 optional (WB240128S)

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 140x82 | mm |
| Viewing Area | 114x64 | mm |
| Dot Size | 0.43x0.43 | mm |
| Dot Pitch | 0.45x0.45 | mm |
| Mounting hole | 137.0x74.5 | mm |

| Pin NO. | Symbol | Function |
|---------|--------|--|
| 1 | VSS | GND |
| 2 | VDD | Power supply for logic |
| 3 | Vo | Operating voltage LCD driving |
| 4 | C/D | Command/data read/write |
| 5 | RD | 8080family Read:signal, 6800 family :Enable signal |
| 6 | WR | 8080family:Write signal, 6800family:R/W 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 |
| 17 | VEE | Negative Voltage output |
| 18 | Busy | RA8820 busy |
| 19 | INT | programable interrupt for8802 |
| 20 | A | Power supply for B/L |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.75 | 5 | 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 | L level | 0.7V _{DD} | --- | V _{DD} | V |
| | VIO | H level | --- | --- | 0.3V _{DD} | V |
| Supply Current | IDD | VDD=5V | 0 | 45 | 50 | mA |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-Vo | -20°C | --- | --- | --- | V |
| | | 0°C | 20.3 | 21.4 | 22.5 | |
| | | 25°C | 18.0 | 19.2 | 20.2 | |
| | | 50°C | 17.8 | 18.9 | 20.0 | |
| LED Forward Voltage | VF | 25°C | --- | 4.2 | --- | V |
| | | 25°C | --- | 920 | 1800 | mA |
| LED Forward Current | IF | 25°C | --- | 250 | 590 | mA |
| | | 25°C | --- | --- | 5.5 | |
| EL | IEL | Vel=110VAC,400Hz | --- | --- | 5.0 | mA |