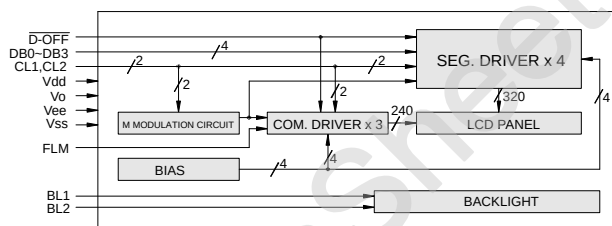
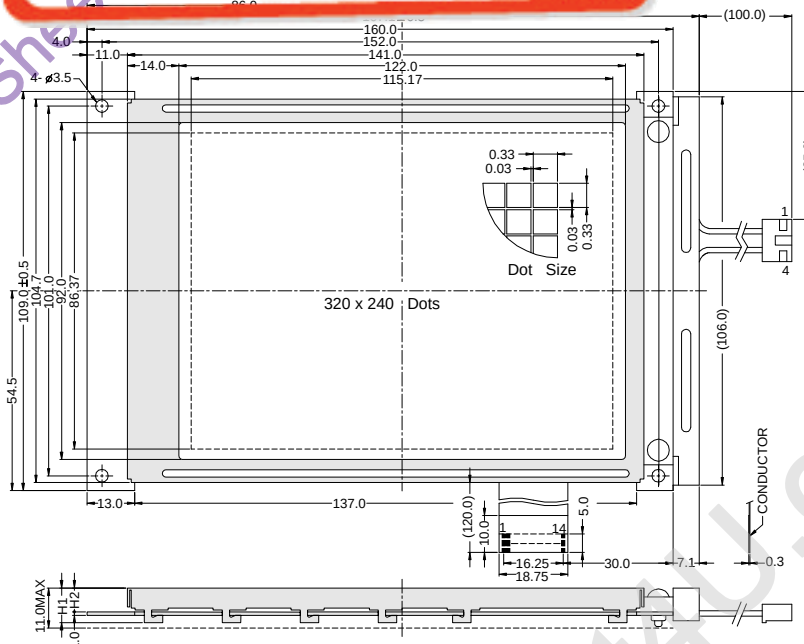


液晶之友 电话: 020-33819057  
http://www.lcdfriends.com



The tolerance unless classified  $\pm 0.3\text{mm}$

#### MECHANICAL SPECIFICATION

|              |               |           |           |
|--------------|---------------|-----------|-----------|
| Overall Size | 169.0 x 109.0 | Module    | H2 / H1   |
| View Area    | 122.0 x 92.0  | W / O B/L | - / -     |
| Dot Size     | 0.33 x 0.33   | EL B/L    | - / -     |
| Dot Pitch    | 0.36 x 0.36   | CCFL B/L  | 6.9 / 9.5 |

#### PIN ASSIGNMENT

| 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       | D-OFF  | Column output control  |
| 6       | FLM    | Shift direction select |
| 7       | N.C    | No connection          |
| 8       | CL1    | Clock signal input     |
| 9       | CL2    | Clock signal input     |
| 10      | Vdd    | Power supply (+)       |
| 11      | Vss    | Power supply (GND)     |
| 12      | Vee    | N.V. input             |
| 13      | Vo     | Contrast adjust        |
| 14      | FGND   | Frame ground           |

#### ABSOLUTE MAXIMUM RATING

| Item                       | Symbol  | Condition | Min. | Max.    | Units |
|----------------------------|---------|-----------|------|---------|-------|
| Supply for logic voltage   | Vdd-Vss | 25°C      | -0.3 | 7.0     | V     |
| LCD driving supply voltage | Vdd-Vee | 25°C      | 0    | 35.0    | V     |
| Input Voltage              | Vin     | 25°C      | -0.3 | Vdd-0.3 | V     |

#### ELECTRICAL CHARACTERISTICS

| Item                             | Symbol    | Condition | Min. | Typical | Max. | Units |
|----------------------------------|-----------|-----------|------|---------|------|-------|
| Power Supply Voltage             | Vdd-Vss   | 25°C      | 4.5  | -       | 5.5  | V     |
| LCD operation voltage            | Vop       | Top       | N    | W       | N    | W     |
|                                  |           | -20°C     | -    | -       | 31.1 | -     |
|                                  |           | 0°C       | -    | -       | -    | V     |
|                                  |           | 25°C      | -    | -       | 24.5 | -     |
|                                  |           | 50°C      | -    | -       | -    | V     |
|                                  |           | 70°C      | -    | -       | 20.5 | -     |
| LCM current consumption (No B/L) | Idd       | Vdd=5V    | -    | 3.5     | 7    | mA    |
| Backlight current consumption    | LED/edge  | VB/L=4.2V | -    | -       | -    | mA    |
|                                  | LED/array | VB/L=4.2V | -    | -       | -    | mA    |

#### REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.