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# SPECIFICATION

**CUSTOMER ：** _____

**MODULE NO.:** **WF43-480272G8#004-FC**

## General Specification

| Item | Dimension | Unit |
|---|---|---|
| Dot Matrix | 480 x RGBx272(TFT) | dots |
| Module dimension | 106.7 x 69.9 x 7.1 | mm |
| Active area | 95.04 x 53.86 | mm |
| Dot pitch | 0.066 x 0.198 | mm |
| LCD type | TFT, Negative, Transmissive | |
| View Direction | 12 o'clock | |
| Gray Scale Inversion Direction | 6 o'clock | |
| Backlight Type | LED,Normally White | |

*Color tone slight changed by temperature and driving voltage.

## Absolute Maximum Ratings

| Item | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| Operating Temperature | $T_{OP}$ | -20 | — | +70 | ℃ |
| Storage Temperature | $T_{ST}$ | -30 | — | +80 | ℃ |

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp. ≦60$^0$C, 90% RH MAX. Temp. ＞ 60$^0$C , Absolute humidity shall be less than 90% RH at 60$^0$C

# Electrical Characteristics

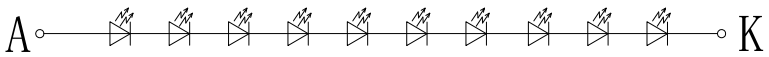
**1. Operating conditions:**

| Item | Symbol | Condition | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Supply Voltage For Logic | VCC | — | 3.1 | 3.3 | 3.5 | V |

**2 LED driving conditions**

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|
| LED current | | - | 20 | - | mA | |
| Power Consumption | | | 640 | 680 | mW | |
| LED voltage | VBL+ | 30 | 32 | 34 | V | Note 1 |
| LED Life Time | | - | 50,000 | - | Hr | Note 2,3,4 |

Note 1 : There are 1 Groups LED




Note 2 : Ta = 25 ℃

Note 3 : Brightess to be decreased to 50% of the initial value

Note 4 : The single LED lamp case

# DC Characteristics

| Parameter | Symbol | Rating | | | Unit | Condition |
|---|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | | |
| Low level input voltage | $V_{IL}$ | 0 | - | 0.3 VCC | V | |
| Hight level input voltage | $V_{IH}$ | 0.7 VCC | - | VCC | V | |

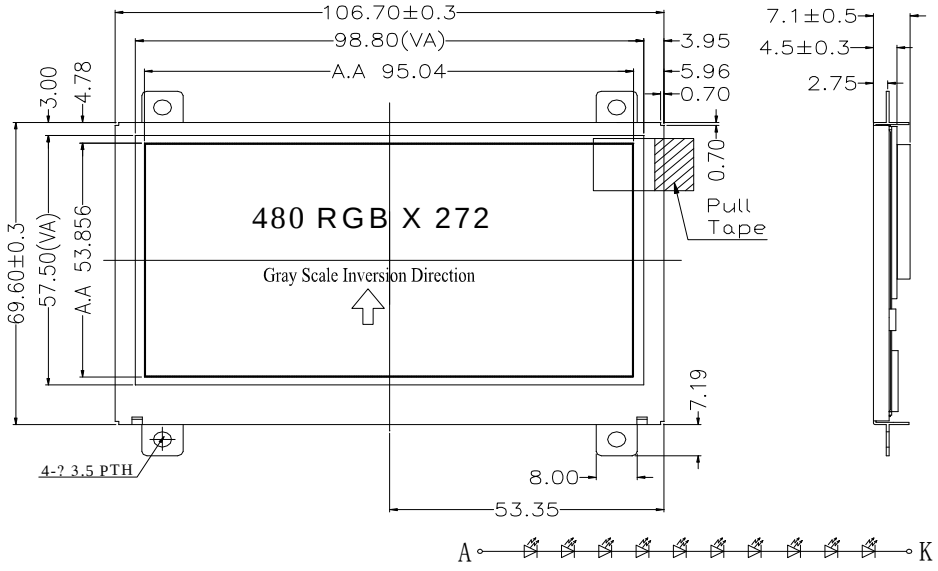
# Interface

**LCM PIN Definition**

| Pin | Symbol | I/O | Function | Remark |
|---|---|---|---|---|
| 1 | GND | P | Systen ground pin of the IC.<br>Connect to systen ground. | |
| 2 | VDD | P | Power Supply : +3.3V | |
| 3 | BL E | I | Backlight control signal , H: On \ L:Off | |
| 4 | RS | I | Data/Command select | |
| 5 | WR | I | Write strobe signal | |
| 6 | RD | I | Read strobe signal | |
| 7 | D0 | I | Data bus | |
| 8 | D1 | I | Data bus | |
| 9 | D2 | I | Data bus | |
| 10 | D3 | I | Data bus | |
| 11 | D4 | I | Data bus | |
| 12 | D5 | I | Data bus | |
| 13 | D6 | I | Data bus | |
| 14 | D7 | I | Data bus | |
| 15 | CS | I | Chip select | |
| 16 | RST | I | Hardware reset | |
| 17 | NC | - | No connection | |
| 18 | NC | - | No connection | |
| 19 | DIP ON | - | Display control H: On \ L:Off | |
| 20 | NC | - | No connection | |

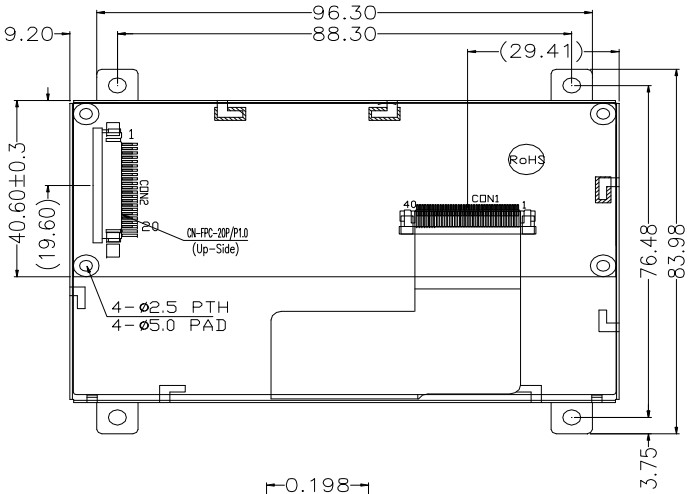
# Contour Drawing

| PIN | DESC |
|---|---|
| 1 | GND |
| 2 | VDD |
| 3 | BL_E |
| 4 | RS |
| 5 | WR |
| 6 | RD |
| 7 | D0 |
| 8 | D1 |
| 9 | D2 |
| 10 | D3 |
| 11 | D4 |
| 12 | D5 |
| 13 | D6 |
| 14 | D7 |
| 15 | CS |
| 16 | RST |
| 17 | NC |
| 18 | NC |
| 19 | DIP_ON |
| 20 | NC |





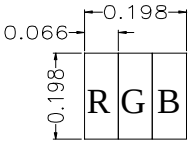




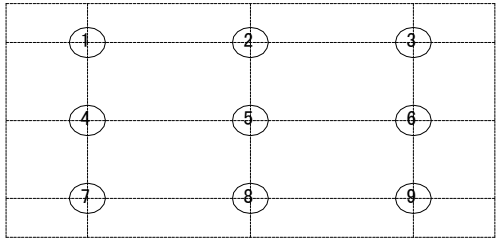




CIRCUIT DIAGRAM(10串)




SCALE 1:100




The non-specified tolerance of dimension is ±0.3mm.