# SPECIFICATION

**CUSTOMER :** _____

**MODULE NO.:** WF43-480272VD#0SF0-FC

## General Specifications

| Item | Dimension | Unit |
|---|---|---|
| Size | 4.3 | inch |
| Dot Matrix | 480 x RGBx272(TFT) | dots |
| Module dimension | 105.5(W) x 67.2(H) x 2.95(D) | mm |
| Active area | 95.04 x 53.856 | mm |
| Dot pitch | 0.066 x 0.198 | mm |
| LCD type | TFT, Normally White, Transmissive | |
| Aspect Ratio | 16:9 | |
| TFT Driver IC | ST7282-G4-1L | |
| Interface | 24-bit RGB | |
| Backlight Type | LED,Normally White | |
| With /Without TP | Without TP | |
| Surface | Anti-Glare | |

*Color tone slight changed by temperature and driving voltage.

# Absolute Maximum Ratings

| Item | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| Operating Temperature | TOP | -20 | — | +70 | ℃ |
| Storage Temperature | TST | -30 | — | +80 | ℃ |

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

1. Temp. ≦60℃, 90% RH MAX. Temp.＞60℃, Absolute humidity shall be less than 90% RH at 60℃

# Electrical Characteristics

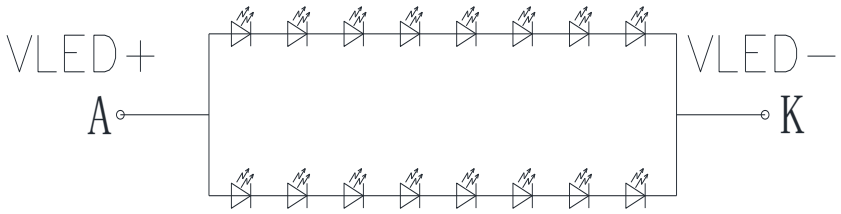
**Operating conditions:**

| Item | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| Supply Voltage For Logic | Vcc | 3.1 | 3.3 | 3.5 | V |
| Digital operation current | ICC | | 22 | 33 | mA |

**LED driving conditions**

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|
| LED current | - | - | 40 | - | mA | - |
| Power Consumption | - | 928 | 1024 | 1088 | mW | - |
| LED voltage | VBL+ | 23.2 | 25.6 | 27.2 | V | Note 1 |
| LED Life Time | - | - | 50,000 | - | Hr | Note 2,3,4 |

Note 1 : There are 1 Groups LED




CIRCUIT DIAGRAM(8*2Dice)

Note 2 : Ta = 25 ℃

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

Note 4 : The single LED lamp case

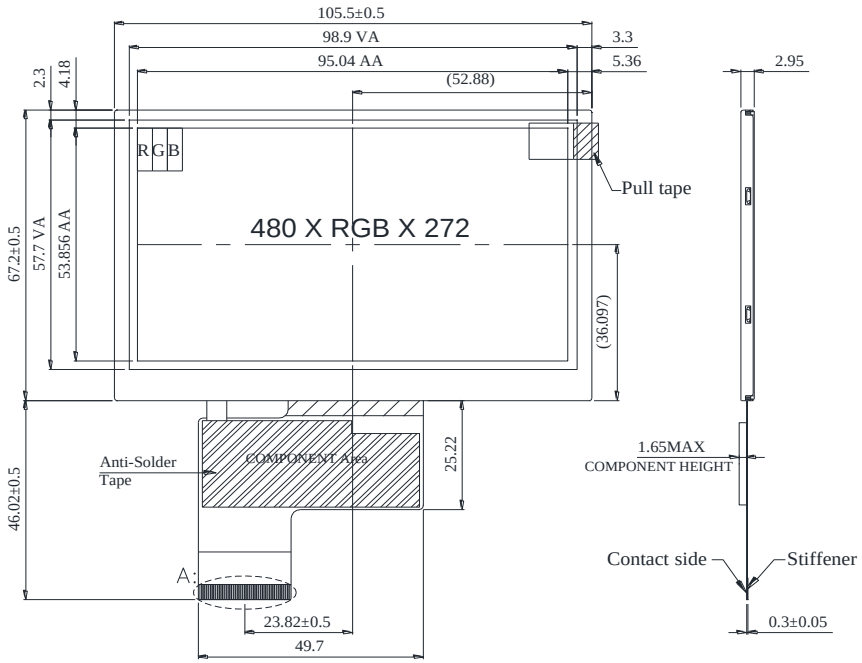
# Interface

**LCM PIN Definition**

| Pin | Symbol | Function | Remark |
|---|---|---|---|
| 1 | VLED- | Power for LED backlight cathode | |
| 2 | VLED+ | Power for LED backlight anode | |
| 3 | GND | Power ground | |
| 4 | VCC | Power voltage | |
| 5 | R0 | Red data (LSB) | |
| 6 | R1 | Red data | |
| 7 | R2 | Red data | |
| 8 | R3 | Red data | |
| 9 | R4 | Red data | |
| 10 | R5 | Red data | |
| 11 | R6 | Red data | |
| 12 | R7 | Red data (MSB) | |
| 13 | G0 | Green data (LSB) | |
| 14 | G1 | Green data | |
| 15 | G2 | Green data | |
| 16 | G3 | Green data | |
| 17 | G4 | Green data | |
| 18 | G5 | Green data | |
| 19 | G6 | Green data | |
| 20 | G7 | Green data (MSB) | |
| 21 | B0 | Blue data (LSB) | |
| 22 | B1 | Blue data | |
| 23 | B2 | Blue data | |
| 24 | B3 | Blue data | |
| 25 | B4 | Blue data | |
| 26 | B5 | Blue data | |
| 27 | B6 | Blue data | |
| 28 | B7 | Blue data (MSB) | |
| 29 | GND | Power ground | |
| 30 | CLK | Pixel clock | |

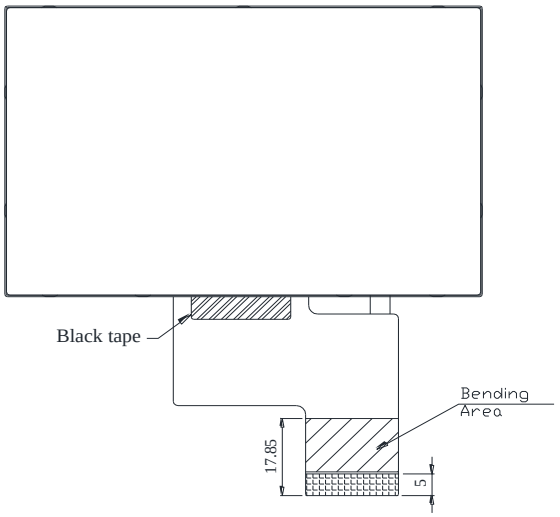
| | | | |
|---|---|---|---|
| 31 | DISP | Display on/off | |
| 32 | HSYNC | Horizontal sync signal; negative polarity | |
| 33 | VSYNC | Vertical sync signal; negative polarity | |
| 34 | DE | Data Enable | |
| 35 | NC | No connection | |
| 36 | GND | Power ground | |
| 37 | NC | No connection | |
| 38 | NC | No connection | |
| 39 | NC | No connection | |
| 40 | NC | No connection | |

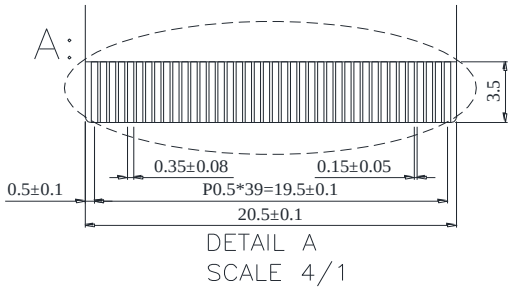
# Contour Drawing










| PIN NO. | SYMBOL |
|---|---|
| 1 | VLED- |
| 2 | VLED+ |
| 3 | GND |
| 4 | VCC |
| 5 | R0 |
| 6 | R1 |
| 7 | R2 |
| 8 | R3 |
| 9 | R4 |
| 10 | R5 |
| 11 | R6 |
| 12 | R7 |
| 13 | G0 |
| 14 | G1 |
| 15 | G2 |
| 16 | G3 |
| 17 | G4 |
| 18 | G5 |
| 19 | G6 |
| 20 | G7 |
| 21 | B0 |
| 22 | B1 |
| 23 | B2 |
| 24 | B3 |
| 25 | B4 |
| 26 | B5 |
| 27 | B6 |
| 28 | B7 |
| 29 | GND |
| 30 | CLK |
| 31 | DISP |
| 32 | HSYNC |
| 33 | VSYNC |
| 34 | DE |
| 35 | NC |
| 36 | GND |
| 37 | NC |
| 38 | NC |
| 39 | NC |
| 40 | NC |

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