



**RAYSTAR**

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## **RFE430Y-AIW-DNN**

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### **SPECIFICATION**

#### **General Specifications**

- Size: 4.3 inch
- Dot Matrix: 480 x RGB x 272(TFT) dots
- Module dimension: 105.5(W) x 67.2(H) x 2.95(D) mm
- Active area: 95.04 x 53.86 mm
- Dot pitch: 0.066 x 0.198 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Backlight Type: LED, Normally White
- With /Without TP: Without TP
- Surface: Glare

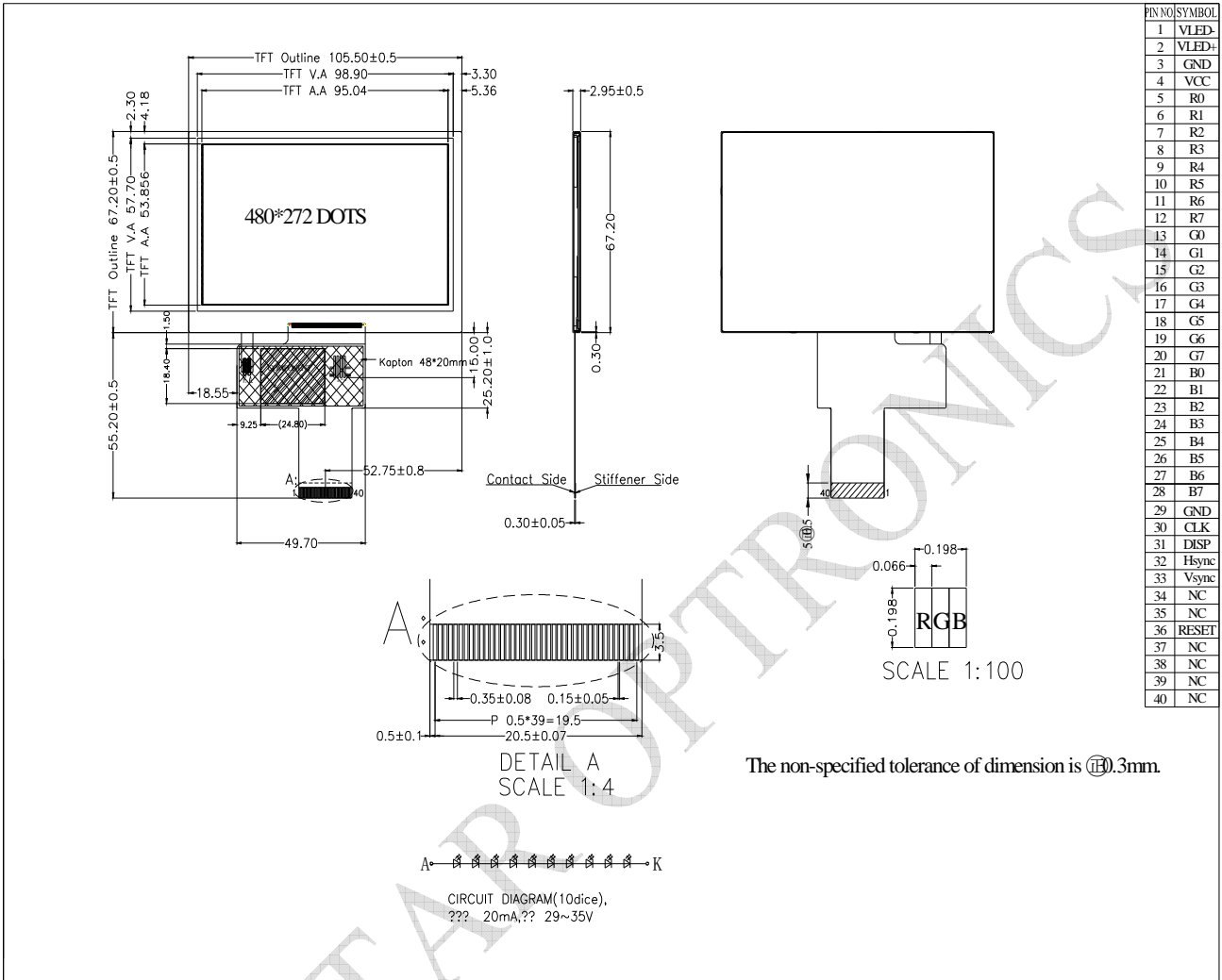
\*Color tone slight changed by temperature and driving voltage.

## Interface

### LCM PIN Definition

| Pin | Symbol | Function                        |
|-----|--------|---------------------------------|
| 1   | VLED-  | Power for LED backlight cathode |
| 1   | 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          |
| 33  | Vsync  | Vertical sync signal            |
| 34  | NC     | No connection                   |
| 35  | NC     | No connection                   |
| 36  | RESET  | Hardware reset                  |
| 37  | NC     | No connection                   |
| 38  | NC     | No connection                   |
| 39  | NC     | No connection                   |
| 40  | NC     | No connection                   |

# Contour Drawing



## Absolute Maximum Ratings

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

## Electrical Characteristics

### Operating conditions

| Item                      | Symbol | Condition | Min | Typ | Max | Unit |
|---------------------------|--------|-----------|-----|-----|-----|------|
| Supply Voltage For Logic  | VCC    | —         | 3.0 | 3.3 | 3.5 | V    |
| Digital operation current | Icc    | —         |     | 17  | 25  | mA   |

### LED driving conditions

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