

# TFT DISPLAY SPECIFICATION



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



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WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw



## SPECIFICATION

**MODULE NO.: WF43YTIAEDNNO#**

### General Specifications

| Item                           | Dimension                         | Unit |
|--------------------------------|-----------------------------------|------|
| 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                         |      |
| Aspect Ratio                   | 16:9                              |      |
| Backlight Type                 | LED, Normally White               |      |
| Touch Panel                    | Without Touch Panel               |      |
| 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 | °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   |

# 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

