



## SPECIFICATION

**MODULE NO.: WF57RTQAFDNN0#**

### General Specifications

| Item                           | Dimension                         | Unit |
|--------------------------------|-----------------------------------|------|
| Size                           | 5.7                               | inch |
| Dot Matrix                     | 640 x R.G.B. x 480                | dots |
| Module dimension               | 144.0 x 104.6 x 12.3              | mm   |
| Active area                    | 115.2(H) x 86.4(V)                | mm   |
| Dot pitch                      | 0.18(H) x 0.18(V)                 | mm   |
| LCD type                       | TFT, Normally White, Transmissive |      |
| View Direction                 | 6 o'clock                         |      |
| Gray Scale Inversion Direction | 12 o'clock                        |      |
| 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    | -30 | —   | +85 | °C   |
| Storage Temperature   | TST    | -30 | —   | +85 | °C   |

## Electrical Characteristics

Ta = 25 ± 2 °C

| Parameter            | Symbol | Value |      | Unit |    |
|----------------------|--------|-------|------|------|----|
|                      |        | Min.  | Typ. | Max. |    |
| Power Supply Voltage | VCC    | 3.0   | 3.3  | 3.6  | V  |
| Rush Current         | IRUSH  |       | 1    |      | A  |
| Power Supply Current | White  |       | 146  | 175  | mA |
|                      | Black  |       | 151  | 181  | mA |
| Power Consumption    | PL     |       | 0.5  |      | W  |

# Interface

## TFT LCD MODULE

| Pin | Name | Description                   |
|-----|------|-------------------------------|
| 1   | GND  | Ground                        |
| 2   | CLK  | Dot Clock                     |
| 3   | IHS  | Horizontal synchronous signal |
| 4   | IVS  | Vertical synchronous signal   |
| 5   | GND  | Ground                        |
| 6   | R0   | Red data (LSB)                |
| 7   | R1   | Red data                      |
| 8   | R2   | Red data                      |
| 9   | R3   | Red data                      |
| 10  | R4   | Red data                      |
| 11  | R5   | Red data (MSB)                |
| 12  | GND  | Ground                        |
| 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 (MSB)              |
| 19  | GND  | Ground                        |
| 20  | B0   | Blue data (LSB)               |
| 21  | B1   | Blue data                     |
| 22  | B2   | Blue data                     |
| 23  | B3   | Blue data                     |
| 24  | B4   | Blue data                     |
| 25  | B5   | Blue data (MSB)               |
| 26  | GND  | Ground                        |
| 27  | DE   | Data Enable Signal            |
| 28  | VDD  | Power Supply (3.3V)           |
| 29  | VDD  | Power Supply (3.3V)           |
| 30  | R/L  | Horizontal reverse scan       |
| 31  | U/D  | Vertical reverse scan         |
| 32  | NC   | Not Connect                   |
| 33  | GND  | Ground                        |

# Contour Drawing

