



## SPECIFICATION

**MODULE NO.: WF35HTLAIDNNO#**

### General Specifications

| Item                           | Dimension                         | Unit |
|--------------------------------|-----------------------------------|------|
| Size                           | 3.5                               | inch |
| Dot Matrix                     | 320 x RGBx 480(TFT)               | dots |
| Module dimension               | 54.5 (W) x83.0 (H) x 2.1(D)       | mm   |
| Active area                    | 48.96 x 73.44                     | 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    | -20 | —   | +70 | °C   |
| Storage Temperature   | TST    | -30 | —   | +80 | °C   |

## Electrical Characteristics

| Item                  | Symbol | Condition  | Min         | Type | Max         | Unit |
|-----------------------|--------|------------|-------------|------|-------------|------|
| Input high voltage    | Vih    |            | $0.8V_{DD}$ | -    | $V_{DD}$    | V    |
| Input low voltage     | Vil    |            | -0.3        | -    | $0.2V_{DD}$ | V    |
| Output high voltage   | Voh    | Ioh=-0.1mA | $0.8V_{DD}$ | -    | -           | V    |
| Output low voltage    | Vol    | Iol=0.1mA  | GND         | -    | $0.2V_{DD}$ | V    |
| Input leakage current | Iil    | Vin=0--Vdd | -0.1        | -    | 0.1         | μA   |
| Current consumption   | Idd    | -          | -           | 13.6 | -           | mA   |

# Interface

## LCM PIN Definition

| NO    | Symbol  | Function   | I/O |
|-------|---------|--|-----|
| 1     | LEDK    | Cathode of LED backlight                           | P   |
| 2     | LEDA    | Anode of LED backlight.                            | P   |
| 3     | IM0     | Note 1   | I   |
| 4     | IM1     | Note 1   | I   |
| 5     | IM2     | Note 1   | I   |
| 6     | NRESET  | System reset pin.                                  | I   |
| 7     | VSYNC   | Frame synchronizing signal                         | I   |
| 8     | HSYNC   | Line synchronizing signal                          | I   |
| 9     | DOTCLK  | Dot clock signal                                   | I   |
| 10    | DE      | A data ENABLE input signal                         | I   |
| 11-28 | DB17-0  | Data bus   | I/O |
| 29    | SDA     | serial data input/output bi-direction pin          | I/O |
| 30    | NRD     | Read strobe signal. Read out data when RDX is Low. | I   |
| 31    | NWR_SCL | Write data when WRX is Low.                        | I   |
| 32    | DNC     | register select                                    | I   |
| 33    | NCS     | Chip select signal                                 | I   |
| 34    | IOVCC   | Power supply(TYP:1.8V/2.8V).                       | P   |
| 35    | VCI     | Power supply(TYP:2.8V).                            | P   |
| 36    | GND     | Ground   | P   |
| 37    | NC      | Connection   |     |
| 38    | NC      | Connection   |     |
| 39    | NC      | Connection   |     |
| 40    | NC      | Connection   |     |

# Contour Drawing

