



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



## SPECIFICATION

**MODULE NO.: WF43QTIBEDBC0#**

### General Specifications

| Item                           | Dimension                               | Unit |
|--------------------------------|---|------|
| Size                           | 4.3                                     | inch |
| Dot Matrix                     | 480 x RGBx272(TFT)                      | dots |
| Module dimension               | 106.7 x 83.98 x 8.76                    | 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                     |      |
| Controller IC                  | SSD1963                                 |      |
| Interface                      | Digital 8080 family MPU 8bit/16bit      |      |
| Touch Panel                    | Projected Capacitive Touch Panel (PCAP) |      |
| Surface                        | 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   |

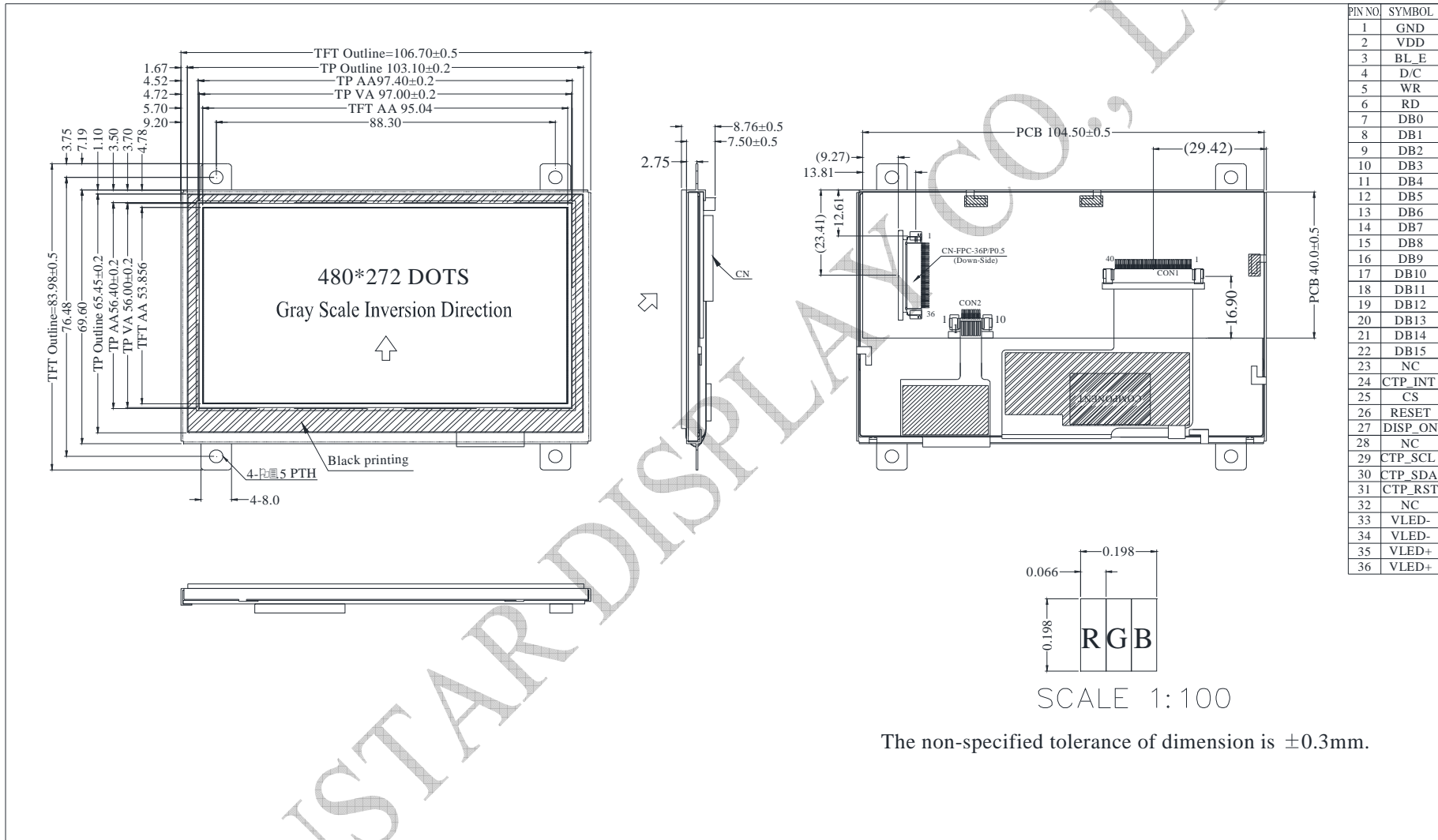
## Electrical Characteristics

| Item                   | Symbol | Condition | Min | Typ | Max | Unit |
|------------------------|--------|-----------|-----|-----|-----|------|
| Supply Voltage For LCM | VDD    | —         | 3.0 | 3.1 | 3.3 | V    |
| Supply Current For LCM | IDD    | —         | —   | 210 | 350 | mA   |

# Interface

| Pin | Symbol  | Function  |
|-----|---------|---|
| 1   | GND     | System round pin of the IC. Connect to system ground. |
| 2   | VDD     | Power Supply : +3.3V                                  |
| 3   | BL_E    | Backlight control signal , H: On \ L: Off             |
| 4   | D/C     | Data/Command select                                   |
| 5   | WR      | Write strobe signal                                   |
| 6   | RD      | Read strobe signal                                    |
| 7   | D0      | Data bus  |
| 8   | D1      | Data bus  |
| 9   | D2      | Data bus  |
| 10  | D3      | Data bus  |
| 11  | D4      | Data bus  |
| 12  | D5      | Data bus  |
| 13  | D6      | Data bus  |
| 14  | D7      | Data bus  |
| 15  | D8      | Data bus (When select 8bits mode, this pin is NC)     |
| 16  | D9      | Data bus (When select 8bits mode, this pin is NC)     |
| 17  | D10     | Data bus (When select 8bits mode, this pin is NC)     |
| 18  | D11     | Data bus (When select 8bits mode, this pin is NC)     |
| 19  | D12     | Data bus (When select 8bits mode, this pin is NC)     |
| 20  | D13     | Data bus (When select 8bits mode, this pin is NC)     |
| 21  | D14     | Data bus (When select 8bits mode, this pin is NC)     |
| 22  | D15     | Data bus (When select 8bits mode, this pin is NC)     |
| 23  | NC      | No connection   |
| 24  | CTP_INT | External interrupt to the host                        |
| 25  | CS      | Chip select   |
| 26  | RESET   | Hardware reset  |
| 27  | DIP ON  | Display control H: On \ L:Off                         |
| 28  | NC      | No connection   |
| 29  | CTP_SCL | Active low I2C clock input                            |
| 30  | CTP_SDA | Data input I2C data input and output                  |
| 31  | CTP_RST | External Reset, Low is active                         |
| 32  | NC      | No connection   |
| 33  | VLED-   | VLED- for B/L LED inverter (GND)                      |
| 34  | VLED-   | VLED- for B/L LED inverter (GND)                      |
| 35  | VLED+   | VLED+ for B/L LED inverter (+3.3V)                    |
| 36  | VLED+   | VLED+ for B/L LED inverter (+3.3V)                    |

# Contour Drawing



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