



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



## **SPECIFICATION**

**MODEL NO. : WLOF00043000WGAACSA00**

### **Summary**

#### **4.3 Inch Smart Display (Custom CAN ID series with GPIO) Feature**

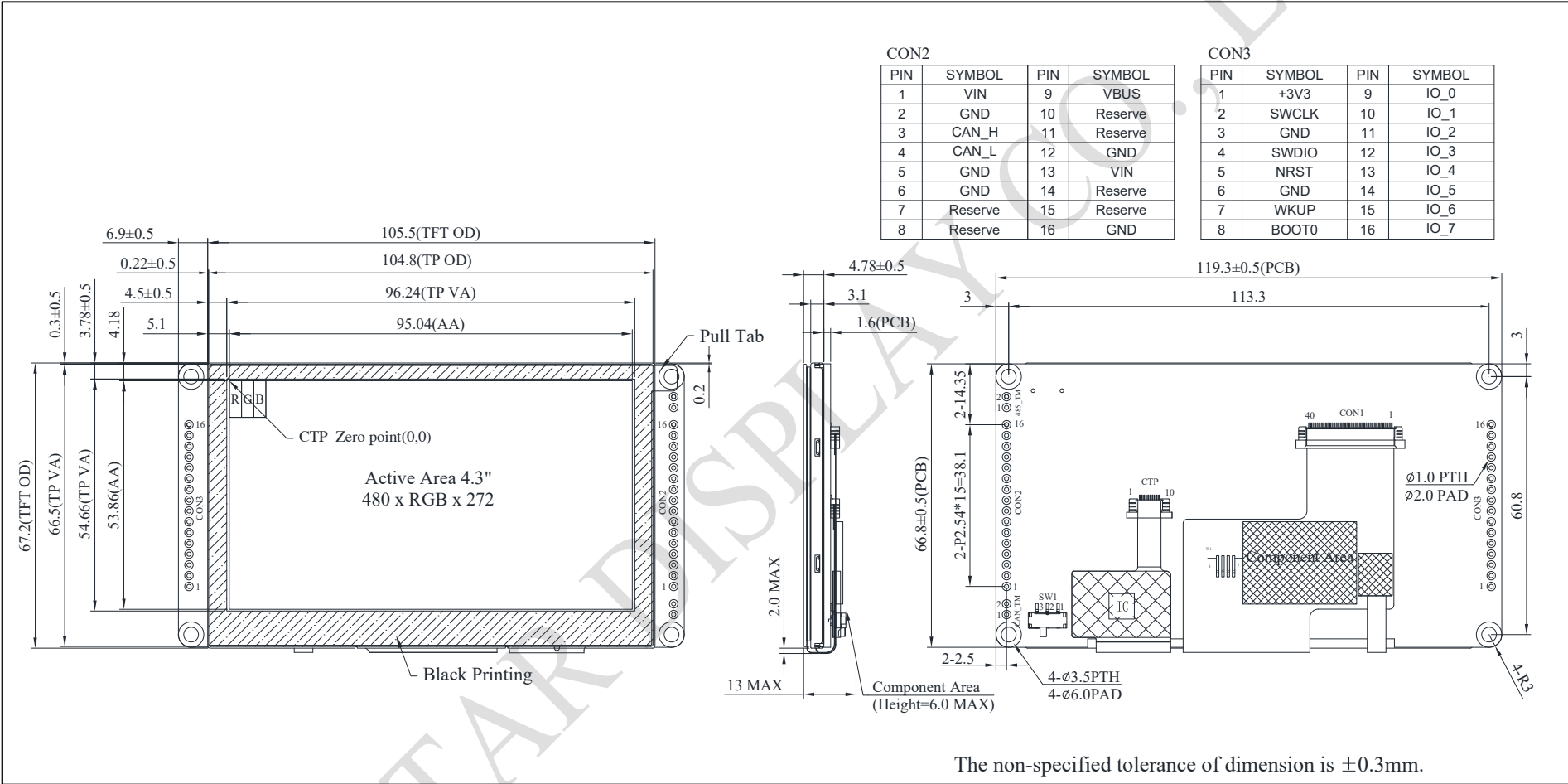
1. Input voltage dynamic range 5V to 28V, typical voltage 12V.
2. Self-testing after booting function.
3. CAN bus communication interface.
4. Supports Custom CAN ID protocol, default baud rate at 250Kbps.
5. Built in flash memory, store the fonts and pictures.
6. Support capacitive touch panel (CTP).
7. Embedded buzzer function.
8. Demo set HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).
9. Supports 8 channel Bi-direction GPIOs with TTL 3.3V logic level. The setting functions through PC tools, Smart Display GUI Builder.

# Product information

## General information

| Item                    | Standard Value                    | Unit              |
|-------------------------|-----------------------------------|-------------------|
| Operating voltage       | 5-28                              | Vdc               |
| Communication Interface | CAN Bus                           | --                |
| MCU                     | STM32F750                         | N/A               |
| Flash Memory            | 16                                | MB                |
| LCD display size        | 4.3                               | inch              |
| Dot Matrix              | 480 × 3(RGB) × 272                | dot               |
| Module dimension        | 119.3(W) × 67.2(H) × 13           | mm                |
| Active area             | 95.04(W) × 53.856 (H)             | mm                |
| Pixel pitch             | 0.198(H) × 0.198(V)               | mm                |
| Brightness              | Min: 300; Typ: 400                | cd/m <sup>2</sup> |
| LCD type                | TFT, Normally Black, Transmissive |                   |
| View Direction          | 80/80/80/80                       |                   |
| Aspect Ratio            | 16:9                              |                   |
| Touch Panel             | With PCAP                         |                   |
| Surface                 | Glare                             |                   |

# Contour Drawing



The non-specified tolerance of dimension is  $\pm 0.3$ mm.

## Absolute Maximum Ratings

| Item                  | Symbol | Min | Typ | Max | Unit |
|-----------------------|--------|-----|-----|-----|------|
| Operating Temperature | TOP    | -30 | —   | +80 | °C   |
| Storage Temperature   | TST    | -30 | —   | +80 | °C   |
| Supply Voltage        | VIN    |     |     | +30 | V    |

## Electrical Characteristics

| Item            | Symbol | Min | Typ | Max | Unit |
|-----------------|--------|-----|-----|-----|------|
| Supply Voltage  | VCC    | 5   | 12  | 28  | V    |
| Supply Current  | ICC    |     | 180 |     | mA   |
| I/O pin Voltage | --     | --  | --  | 3.3 | V    |

## BOM

| Item | Description          |
|------|----------------------|
| LCM  | WF43WTWAEDNGA#       |
| PCBA | SV10004R300WB00N0100 |