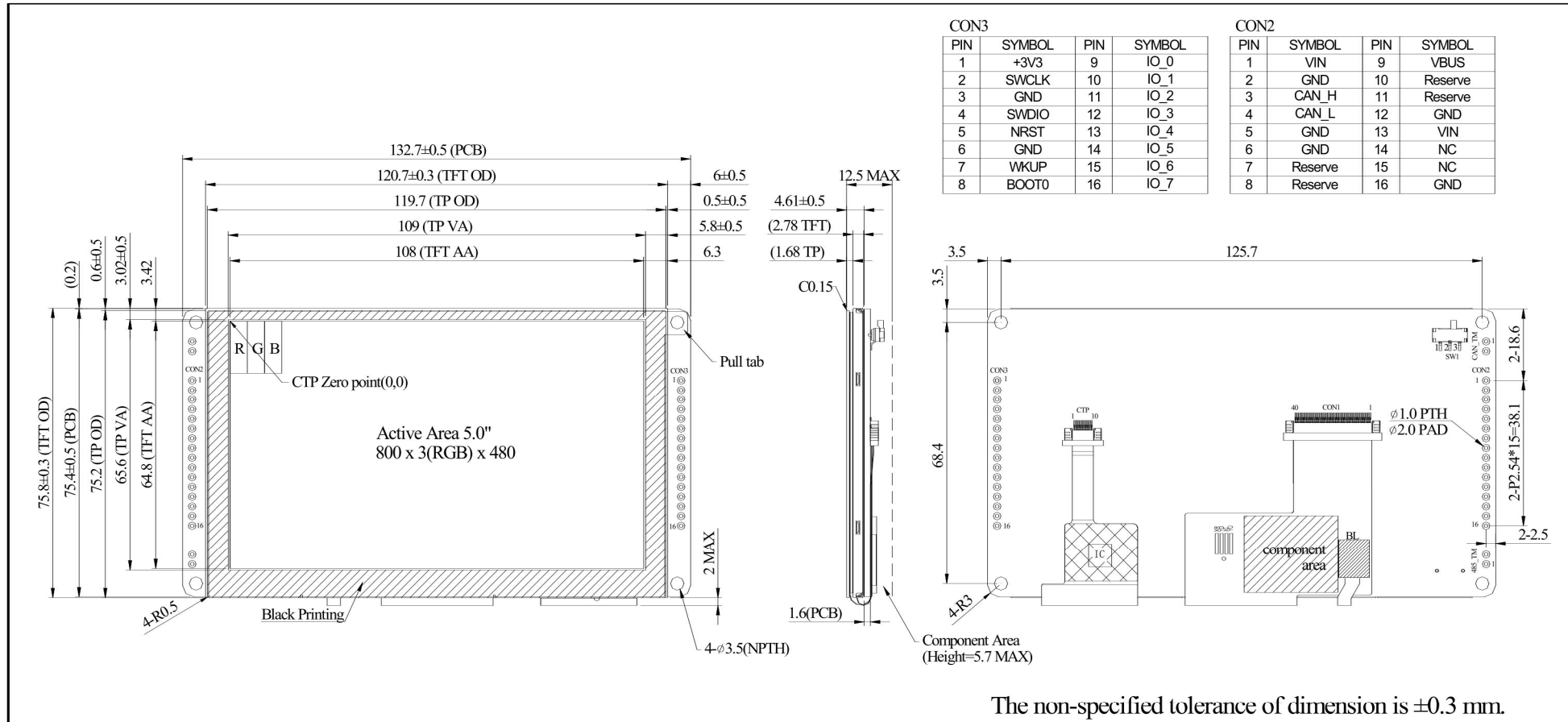


# Product information

## General information

| Item                    | Standard Value                           | Unit              |
|-------------------------|------------------------------------------|-------------------|
| Operating voltage       | 5V~ 28V dynamic                          | Vdc               |
| Communication Interface | CAN Bus                                  | --                |
| MCU                     | STM32F750                                | N/A               |
| Flash Memory            | 16                                       | MB                |
| LCD display size        | 5.0                                      | inch              |
| Dot Matrix              | 800× 3(RGB) × 480                        | dot               |
| Module dimension        | 132.7(W) × 75.8(H) × 12.5                | mm                |
| Active area             | 108(W) × 64.8 (H)                        | mm                |
| Pixel pitch             | 0.135(W) × 0.135(H)                      | 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            | 15:9                                     |                   |
| Touch Panel             | Projected Capacitive touch screen (PCAP) |                   |
| Surface                 | Glare                                    |                   |

# Contour Drawing



## Absolute Maximum Ratings

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

## Electrical Characteristics

| Item            | Symbol | Min | Typ | Max | Unit |
|-----------------|--------|-----|-----|-----|------|
| Supply Voltage  | VCC    | 5   | 12  | 28  | V    |
| Supply Current  | ICC    | 670 | 240 | 110 | mA   |
| I/O pin Voltage | --     | --  | --  | 3.3 | V    |

## BOM

| Item | Description          |
|------|----------------------|
| LCM  | WF50FTWAGDNG0#       |
| PCBA | SV10005R000FG00N0103 |

# Interface

## CON2 definition:

| Pin | Symbol  | Function                     | Remark |
|-----|---------|------------------------------|--------|
| 1   | VIN     | Power supply 5V to 28V input | Input  |
| 2   | GND     | Power supply GND input       | Input  |
| 3   | CAN_H   | CAN bus D+                   | I/O    |
| 4   | CAN_L   | CAN bus D-                   | I/O    |
| 5   | GND     | Power supply GND input       | GND    |
| 6   | GND     | Power supply GND input       | GND    |
| 7   | Reserve | -                            | -      |
| 8   | Reserve | -                            | -      |
| 9   | VBUS    | Power supply 5V input        | Input  |
| 10  | Reserve | -                            | -      |
| 11  | Reserve | -                            | -      |
| 12  | GND     | Power supply GND input       | Input  |
| 13  | VIN     | Power supply 5V to 28V input | Input  |
| 14  | NC      | -                            | -      |
| 15  | NC      | -                            | -      |
| 16  | GND     | Power supply GND input       | Input  |

**CON3 definition:**

| Pin | Symbol | Function                                                     | Remark                     |
|-----|--------|--------------------------------------------------------------|----------------------------|
| 1   | +3V3   | 3.3V power for JTAG interface                                | Output                     |
| 2   | SWCLK  | CLK pin for JTAG interface                                   | Input                      |
| 3   | GND    | GND for JTAG interface                                       | Output                     |
| 4   | SWDIO  | Data pin for JTAG interface                                  | I/O                        |
| 5   | NRST   | Reset pin for JTAG interface                                 | Input                      |
| 6   | GND    | GND                                                          | Output                     |
| 7   | WKUP   | WKup,ADC,Timer,Event,I/O                                     | TTL signal voltage is 3.3V |
| 8   | BOOT0  | Lo: Internal flash boot (Default)<br>Hi: External flash boot | TTL signal voltage is 3.3V |
| 9   | IO0    | ADC,DAC,Timer,Event,I/O                                      | TTL signal voltage is 3.3V |
| 10  | IO1    | ADC,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 11  | IO2    | ADC,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 12  | IO3    | RST,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 13  | IO4    | RST,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 14  | IO5    | ADC,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 15  | IO6    | RST,Timer,Event,I/O                                          | TTL signal voltage is 3.3V |
| 16  | IO7    | RST,ADC,Event,I/O                                            | TTL signal voltage is 3.3V |