



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.: WF43MTIBEDRGD#

General Specifications

| Item | Dimension | Unit |
|--------------------------------|--|------|
| Size | 4.3 | inch |
| Dot Matrix | 480 x RGBx272(TFT) | dots |
| Module dimension | 125.5(W) x 67.2(H) x 9.35 (D) | mm |
| Active area | 95.04 x 53.856 | 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 | |
| Interface | Uart 19200 Baud rate/SPI | |
| PCAP FW Version | 3 | |
| PCAP IC | FT5426DQ8 or Equivalent | |
| Touch Screen | With Projected Capacitive Touch Screen | |
| 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

Operating conditions:

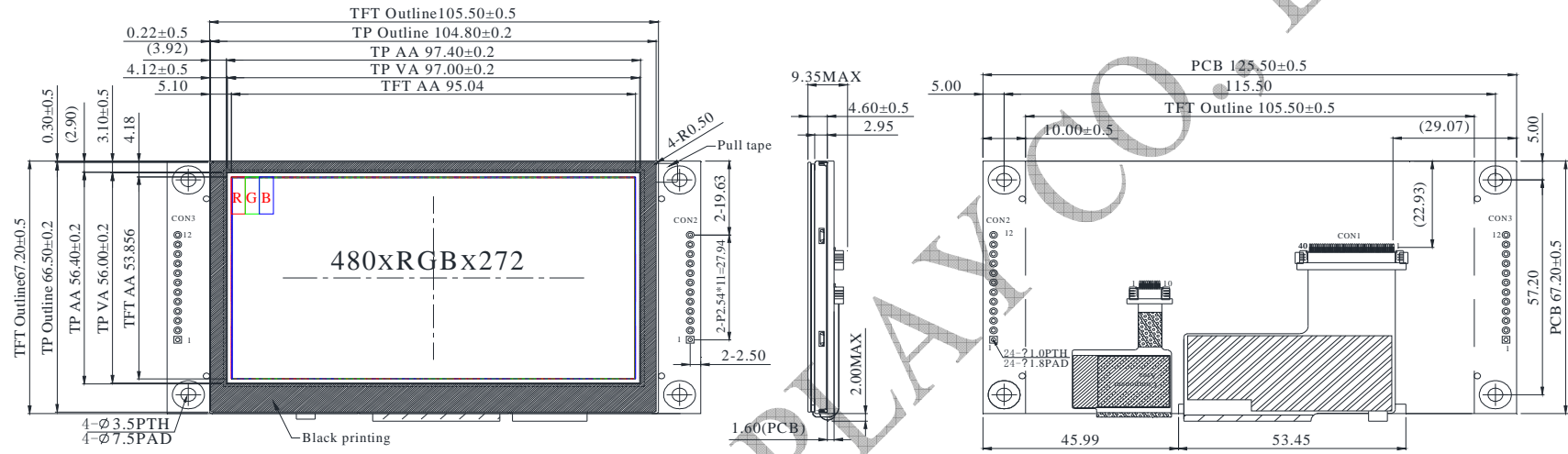
| Item | Symbol | Condition | Min | Typ | Max | Unit |
|------------------------|--------|-----------|-----|------|------|------|
| Supply Voltage For LCM | VBUS | — | 4.5 | 5 | 5.5 | V |
| Supply Current For LCM | IBUS | — | — | 220 | 240 | mA |
| Power Consumption | — | VBUS=5V | — | 1100 | 1320 | mW |

Interface

| CON 2 | | | |
|-------|--------|--------------|------------------------|
| Pin | Symbol | I/O | Function |
| 1 | GND | Power Supply | Power Ground |
| 2 | TX | O | Uart Transmit pin |
| 3 | RX | I | Uart Receive pin |
| 4 | VBUS | Power Supply | Power supply : 5V |
| 5 | D+ | I/O | USB Data + |
| 6 | D- | I/O | USB Data - |
| 7 | GND | Power Supply | Power Ground |
| 8 | /REST | I | Reset (active Low) |
| 9 | GND | Power Supply | Power Ground |
| 10 | PWM | O | Pulse width modulation |
| 11 | GND | Power Supply | Power Ground |
| 12 | VBUS | Power Supply | Power supply : 5V |

| CON 3 | | | |
|-------|---------|--------------|----------------------------------|
| Pin | Symbol | I/O | Function |
| 1 | GND | Power Supply | Power Ground |
| 2 | SW1 | I | Switch (active low) |
| 3 | SW2 | I | Switch (active low) |
| 4 | SW3 | I | Switch (active low) |
| 5 | SW4 | I | Switch (active low) |
| 6 | GND | Power Supply | Power Ground |
| 7 | SDI | O | Master Input Slave Output (MISO) |
| 8 | SDO | I | Master Output Slave Input (MOSI) |
| 9 | SCK | I | Serial Clock |
| 10 | SCS | I | Serial Chip selection |
| 11 | SPI_INT | O | Serial Interrupt |
| 12 | VBUS | Power Supply | Power supply : 5V |

Contour Drawing



| CON2 | | CON3 | |
|------|--------|------|---------|
| PIN | SYMBOL | PIN | SYMBOL |
| 1 | GND | 1 | GND |
| 2 | TX | 2 | SW1 |
| 3 | RX | 3 | SW2 |
| 4 | VBUS | 4 | SW3 |
| 5 | D+ | 5 | SW4 |
| 6 | D- | 6 | GND |
| 7 | GND | 7 | SDI |
| 8 | RST | 8 | SDO |
| 9 | GND | 9 | SCK |
| 10 | PWM | 10 | SCS |
| 11 | GND | 11 | SPI_INT |
| 12 | VBUS | 12 | VBUS |

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