**Winstar Display Co., LTD**
**華凌光電股份有限公司**
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# SPECIFICATION

**CUSTOMER :**

**MODULE NO.:** WF40-480800CM#0P0-FC

## General Specifications

| Item | Dimension | Unit |
|---|---|---|
| Size | 3.97 | inch |
| Dot Matrix | 480× 3(RGB) × 800 | dots |
| Module dimension | 57.14(H) * 96.85 (W）*2.15 | mm |
| Active area | 51.84(H)*86.4 (V) | mm |
| Dot pitch | 0.108(H)*0.108(V) | mm |
| LCD type | TFT, Normally Black, Transmissive | |
| View Direction | IPS | |
| Aspect Ratio | Portrait | |
| Interface | MIPI | |
| Driver IC | ST7701S | |
| Backlight Type | LED ,Normally White | |
| Touch Panel | Without Touch Panel | |
| Surface | Anti-Glare | |

# Absolute Maximum Ratings

| Item | Symbol | Min | Typ | Max | Unit |
|---|---|---|---|---|---|
| Operating Temperature | TOP | -20 | — | +70 | ℃ |
| Storage Temperature | TST | -30 | — | +80 | ℃ |

# Electrical Characteristics

**Typical Operation Conditions**

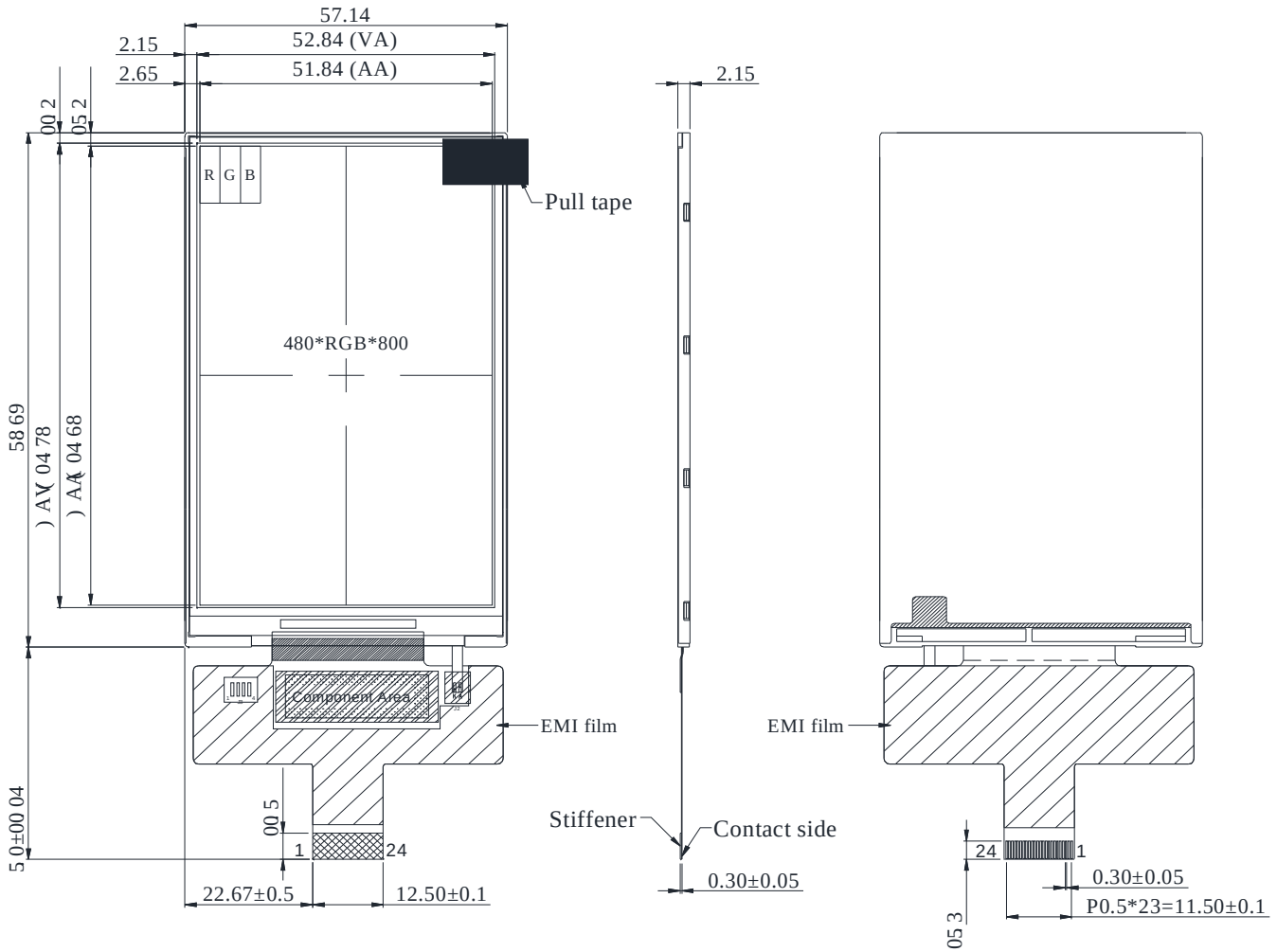
| Item | Symbol | Values | | | Unit |
|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | |
| Interface Supply Voltage | VCI | 2.8 | - | 3.3 | V |
| Power voltage | IOVCC | 1.65 | 1.8 | 3.3 | V |
| Current for Driver(White) | IDD | - | 65 | 98 | mA |

# Interface

**LCM PIN Definition**

| Pin | Symbol | Function |
|---|---|---|
| 1 | GND | Power ground |
| 2-5 | NC | No connect |
| 6 | GND | Power ground |
| 7 | D0N | MIPI DSI differential data pair (Data lane 0) |
| 8 | D0P | |
| 9 | GND | Power ground |
| 10 | CLK_N | MIPI DSI differential clock pair |
| 11 | CLK_P | |
| 12 | GND | Power ground |
| 13 | D1N | MIPI DSI differential data pair(Data lane 1) |
| 14 | D1P | |
| 15 | GND | Power ground |
| 16 | IOVCC | I/O and interface power supply (1.8V) |
| 17 | RESET | Reset input |
| 18 | TE | Tearing effect output pin. |
| 19 | VCI | Analog power supply |
| 20 | VCI | Analog power supply |
| 21 | NC | No connect |
| 22 | LEDK | Power for LED backlight cathode |
| 23 | LEDA | Power for LED backlight anode |
| 24 | GND | Power ground |

# Contour Drawing




| PIN No. | Pin Name |
|---|---|
| 1 | GND |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | NC |
| 6 | GND |
| 7 | D0N |
| 8 | D0P |
| 9 | GND |
| 10 | CLK_N |
| 11 | CLK_P |
| 12 | GND |
| 13 | D1N |
| 14 | D1P |
| 15 | GND |
| 16 | IOVCC |
| 17 | RESET |
| 18 | TE |
| 19 | VCI |
| 20 | VCI |
| 21 | NC |
| 22 | LEDK |
| 23 | LEDA |
| 24 | GND |

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