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

## MODULE NO.: WF101-1280800FL#0SP0B-FC

# General Specifications

| Item | Dimension | Unit |
|---|---|---|
| Screen Diagonal | 10.1 | inch |
| Number of Pixels | 1280 x 3(RGB) x 800 | dots |
| Module dimension | 230.56 x 155.01 x 6.4 | mm |
| Active area | 216.96 (H) x 135.6(V) | mm |
| Pixel pitch | 0.1695 x 0.1695 | mm |
| Display Mode | Normally Black | |
| Pixel Arrangement | R.G.B. Vertical Stripe | |
| Backlight Type | LED, Normally White | |
| Aspect Ratio | 16:9 | |
| Electrical Interface (Logic) | LVDS | |
| Touch Panel | Without Touch Panel | |
| Surface | Glare | |

*Color tone slight changed by temperature and driving voltage.

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# Absolute Maximum Ratings

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

# Electrical Characteristics

**Typical Operation Conditions**

| Item | Symbol | Values | | | Unit |
|---|---|---|---|---|---|
| | | Min | Typ | MAX | |
| Power voltage | VDD | 2.3 | 2.5 | 2.7 | V |
| | AVDD | 8.0 | 8.2 | 8.4 | V |
| | VGH | 21.7 | 22 | 22.3 | V |
| | VGL | -7.3 | -7 | -6.7 | V |
| Input signal voltage | VCOM | 2.7 | 3.0 | 3.3 | V |

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# Interface

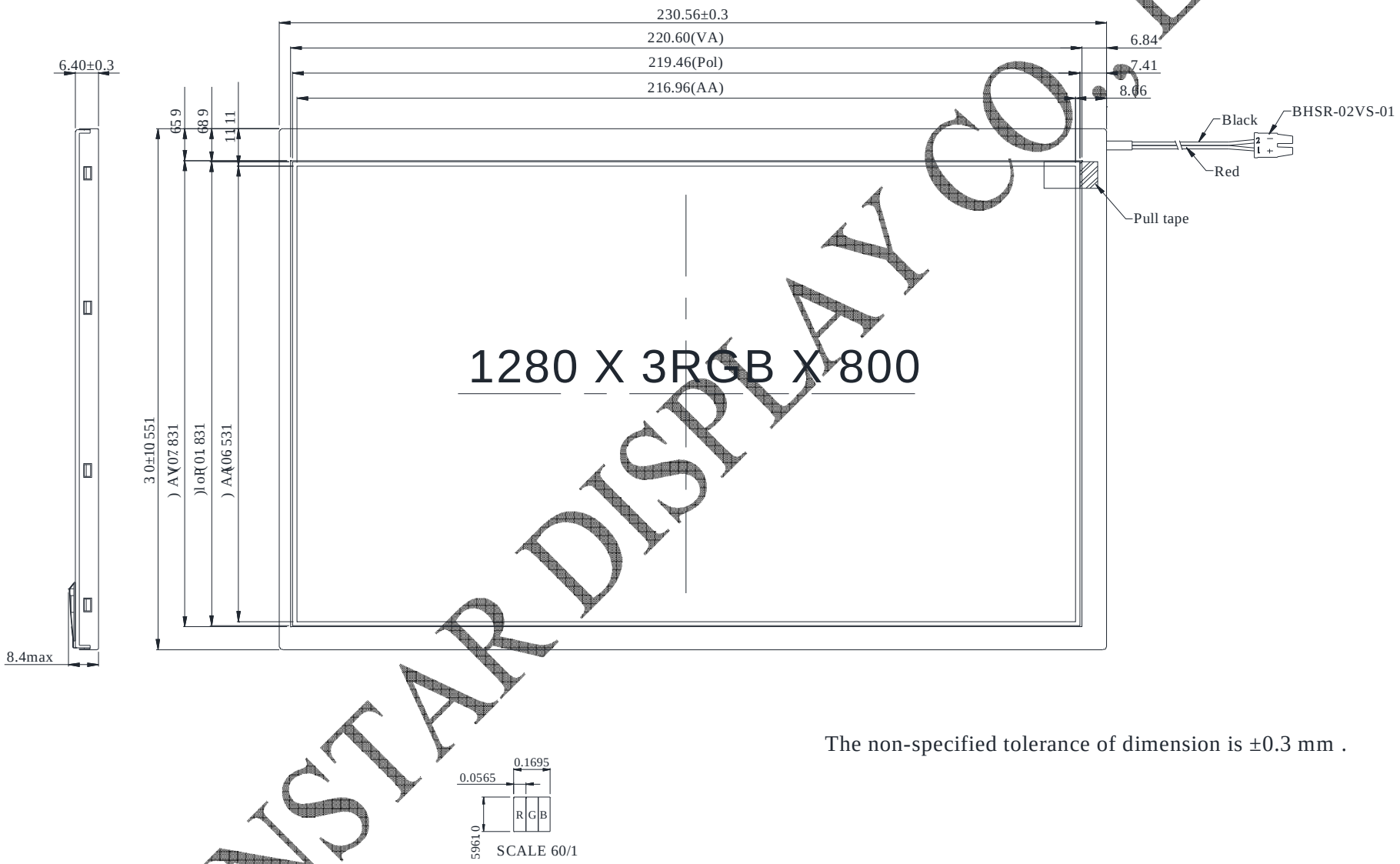
**Interface Connector :** A 40pin connector is used for the module electronics interface. The recommended model is F62240-H1210B manufactured by Vigorconn.

| Pin No. | Symbol | I/O | Function |
|---|---|---|---|
| 1 | VCOM | P | Common Voltage |
| 2 | VDD | P | Power Supply |
| 3 | VDD | P | Power Supply |
| 4 | NC | - | No connection |
| 5 | NC | - | No connection |
| 6 | NC | - | No connection |
| 7 | GND | P | Ground |
| 8 | Rxin0- | I | -LVDS Differential Data Input |
| 9 | Rxin0+ | I | +LVDS Differential Data Input |
| 10 | GND | P | Ground |
| 11 | Rxin1- | I | -LVDS Differential Data Input |
| 12 | Rxin1+ | I | +LVDS Differential Data Input |
| 13 | GND | P | Ground |
| 14 | Rxin2- | I | -LVDS Differential Data Input |
| 15 | Rxin2+ | I | +LVDS Differential Data Input |
| 16 | GND | P | Ground |
| 17 | RxCLK- | I | -LVDS Differential Clock Input |
| 18 | RxCLK+ | I | +LVDS Differential Clock Input |
| 19 | GND | P | Ground |
| 20 | Rxin3- | I | -LVDS Differential Data Input |
| 21 | Rxin3+ | I | +LVDS Differential Data Input |
| 22 | GND | P | Ground |
| 23 | NC | - | No connection |
| 24 | NC | - | No connection |
| 25 | GND | P | Ground |
| 26 | NC | - | No connection |
| 27 | NC | - | No connection |
| 28 | NC | - | No connection |
| 29 | AVDD | P | Power for Analog Circuit |
| 30 | GND | P | Ground |
| 31 | NC | - | No connection |
| 32 | NC | - | No connection |
| 33 | NC | - | No connection |
| 34 | NC | - | No connection |
| 35 | VGL | P | Gate OFF Voltage |
| 36 | NC | - | No connection |
| 37 | NC | - | No connection |
| 38 | VGH | P | Gate ON Voltage |
| 39 | NC | - | No connection |
| 40 | NC | - | No connection |

I: input, O: output, P: Power

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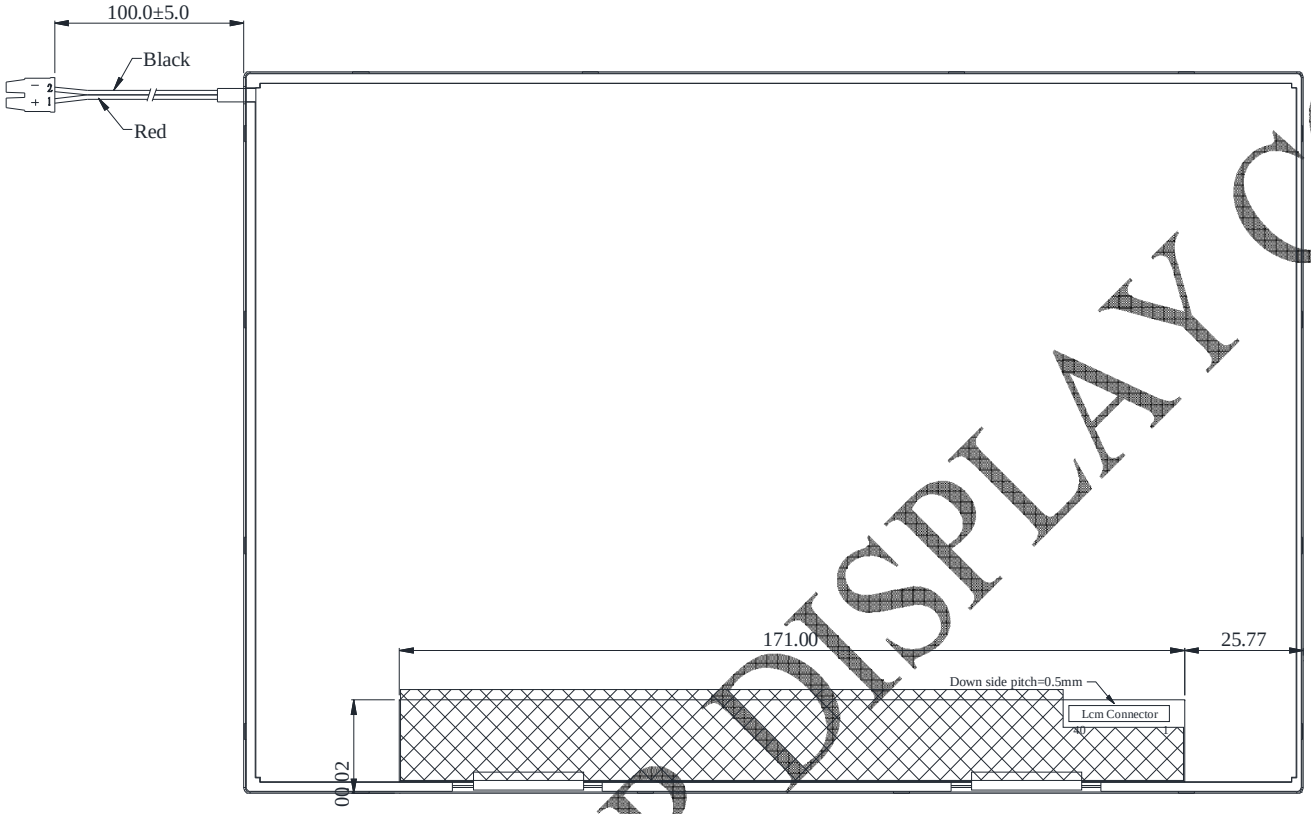
# Contour Drawing




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

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| PIN NO | SYMBOL |
|---|---|
| 1 | LED+ |
| 2 | LED- |




| PIN NO. | SYMBOL | PIN NO. | SYMBOL |
|---|---|---|---|
| 1 | VCOM | 21 | Rxin3+ |
| 2 | VDD | 22 | GND |
| 3 | VDD | 23 | NC |
| 4 | NC | 24 | NC |
| 5 | NC | 25 | GND |
| 6 | NC | 26 | NC |
| 7 | GND | 27 | NC |
| 8 | Rxin0- | 28 | NC |
| 9 | Rxin0+ | 29 | AVDD |
| 10 | GND | 30 | GND |
| 11 | Rxin1- | 31 | NC |
| 12 | Rxin1+ | 32 | NC |
| 13 | GND | 33 | NC |
| 14 | Rxin2- | 34 | NC |
| 15 | Rxin2+ | 35 | VGL |
| 16 | GND | 36 | NC |
| 17 | RxCLK- | 37 | NC |
| 18 | RxCLK+ | 38 | VGH |
| 19 | GND | 39 | NC |
| 20 | Rxin3- | 40 | NC |

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

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