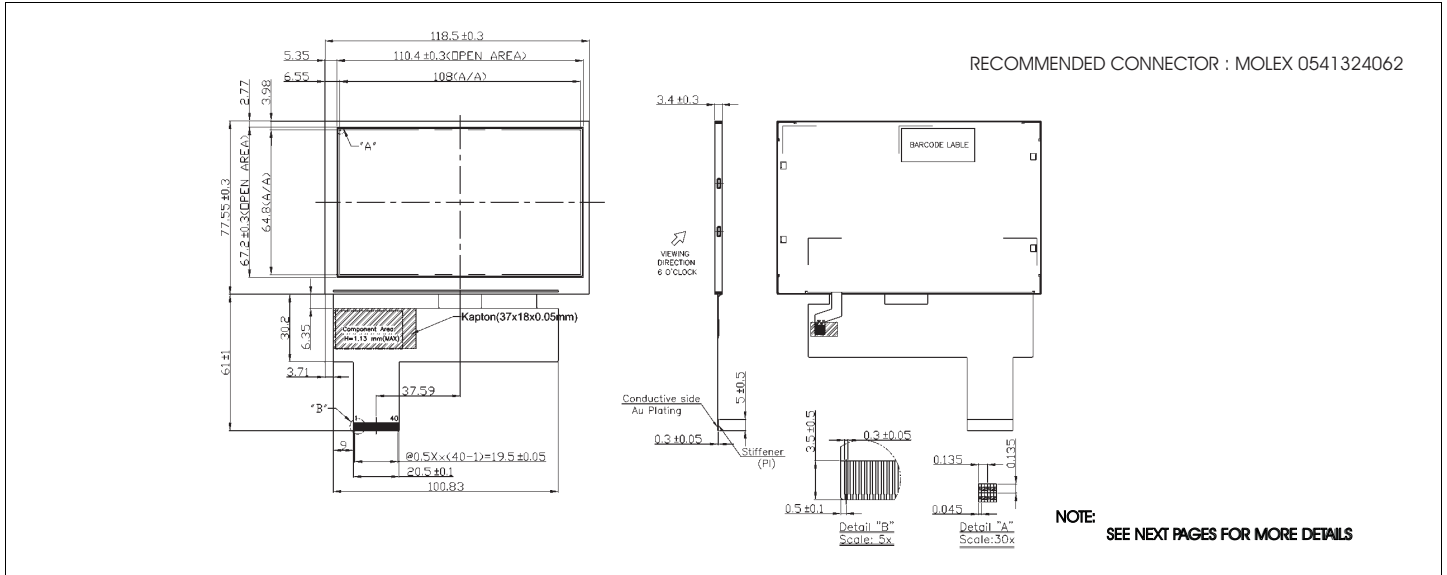


HDA500V

Dimensional Drawing

5", WVGA(800X480) TFT, Transmissive, Color, White LED Backlight



Features

- Viewing Angle(H/V).....140/130 degrees
- High Contrast.....400.
- Fast Response Time.....50 msec
- Built-in DC-DC Converter
- Built-in Controller.....none
- Touch screenoptional

Electrical Characteristics (VDD=3.3±0.1 25V 25°C)

| PARAMETER | SYM | CONDITION | MIN | TYP | MAX | UNIT |
|-----------------------|-------------------|-----------|--------------------|------|--------------------|-------------------|
| OPERATING VOLTAGE | V _{DD} | - | 2.7 | 3.3 | 3.6 | V |
| INPUT HIGH VOLTAGE | V _{HI} | - | 0.7V _{DD} | - | V _{DD} | V |
| INPUT LOW VOLTAGE | V _{LI} | - | 0 | - | 0.3V _{DD} | V |
| OPERATING CURRENT | I _{DD} | - | - | 110 | 154 | mA |
| LED OPERATING VOLTAGE | V _{LED} | - | - | 23.1 | - | V |
| OPERATING CURRENT | I _{FLED} | - | - | 40 | - | mA |
| POWER CONSUMPTION | P _D | - | - | 1287 | - | mW |
| BRIGHTNESS | L | - | 270 | 340 | - | cd/m ² |

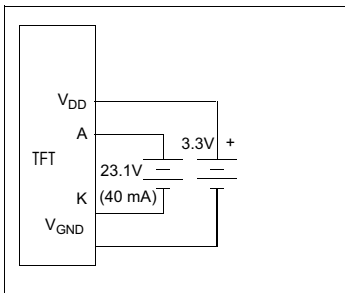
Physical Data

- Module Size.....118.5W x77.55H x 3.4T mm
- Viewing Area Size.....110.4W x67.2 H mm
- Dot Pitch.....0.135W x 0.135H mm
- Weight.....60.4g

Pin Connections

| PIN NO. | SYMBOL | FUNCTION |
|---------|--------|----------------------|
| 1 | VLED-K | LED Cathode |
| 2 | VLED-A | LED Anode |
| 3 | GND | Ground |
| 4 | VCC | + 3.3V Power Supply |
| 5 | R0 | Red Data Bit 0 |
| 6 | R1 | Red Data Bit 1 |
| 7 | R2 | Red Data Bit 2 |
| 8 | R3 | Red Data Bit 3 |
| 9 | R4 | Red Data Bit 4 |
| 10 | R5 | Red Data Bit 5 |
| 11 | R6 | Red Data Bit 6 |
| 12 | R7 | Red Data Bit 7 |
| 13 | G0 | Green Data Bit 0 |
| 14 | G1 | Green Data Bit 1 |
| 15 | G2 | Green Data Bit 2 |
| 16 | G3 | Green Data Bit 3 |
| 17 | G4 | Green Data Bit 4 |
| 18 | G5 | Green Data Bit 5 |
| 19 | G6 | Green Data Bit 6 |
| 20 | G7 | Green Data Bit 7 |
| 21 | B0 | Blue Data Bit 0 |
| 22 | B1 | Blue Data Bit 1 |
| 23 | B2 | Blue Data Bit 2 |
| 24 | B3 | Blue Data Bit 3 |
| 25 | B4 | Blue Data Bit 4 |
| 26 | B5 | Blue Data Bit 5 |
| 27 | B6 | Blue Data Bit 6 |
| 28 | B7 | Blue Data Bit 7 |
| 29 | GND | Ground |
| 30 | DCLK | Data Clock |
| 31 | DISP | Display ON/OFF (H/L) |
| 32 | HSYNC | Horizontal Sync |
| 33 | VSYNC | Vertical Sync |
| 34 | DE | Data Enable |
| 35 | NC | No Connect |
| 36 | GND | GND |
| 37-40 | NC | No Connection |

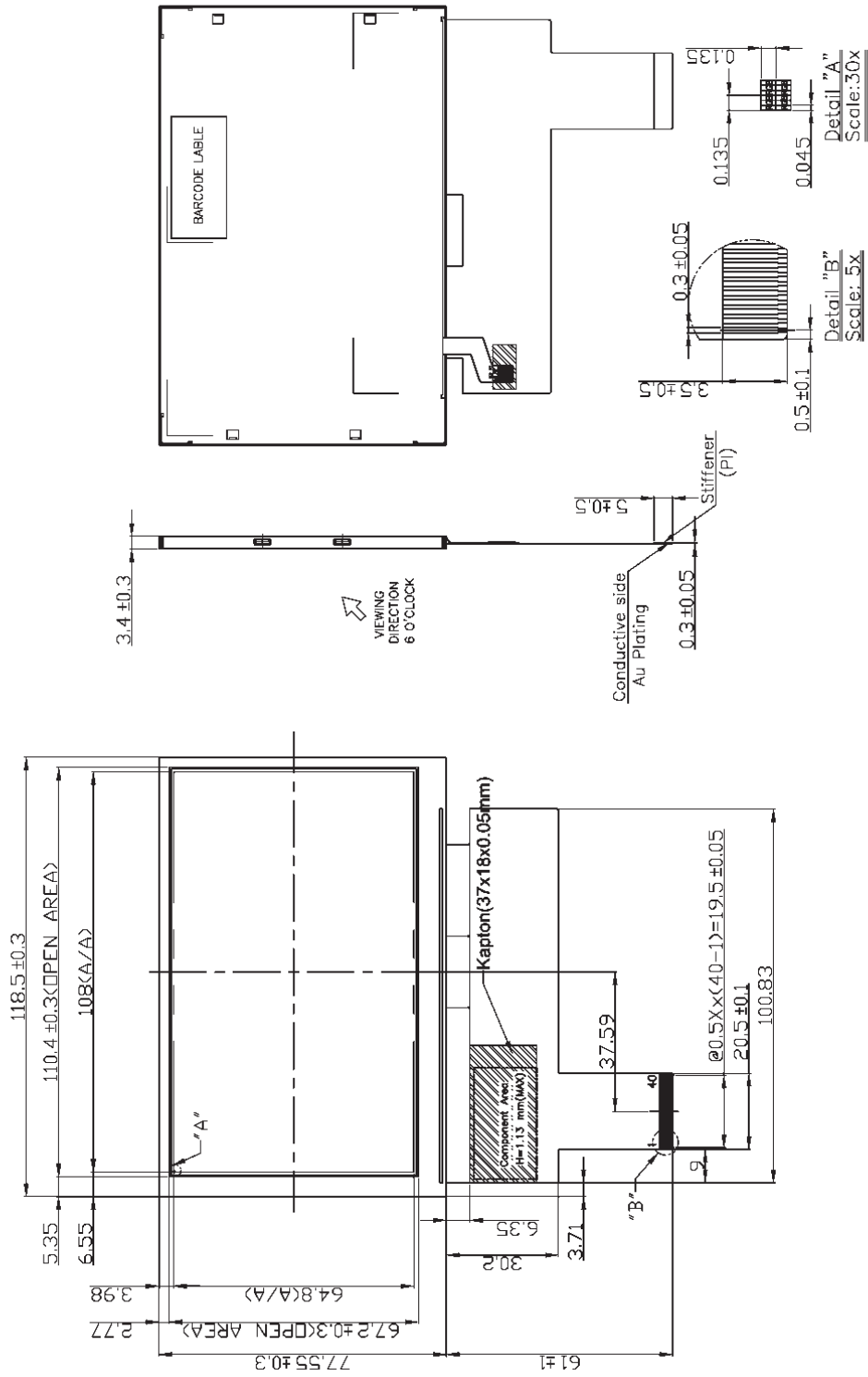
Power Supply



Absolute Maximum Ratings

| PARAMETER | SYMBOL | MIN | MAX | UNIT |
|-------------------------|------------------|------|----------------------|------|
| SUPPLY VOLTAGE | V _{DD} | -0.3 | 7.0 | V |
| BACKLIGHT CURRENT (LED) | I _{LED} | - | 50 | mA |
| INPUT VOLTAGE | V _{IN} | -0.3 | V _{DD} +0.3 | V |
| OPERATING TEMPERATURE | T _{OP} | -20 | 70 | °C |
| STORAGE TEMPERATURE | T _{STG} | -30 | 80 | °C |

Outline Drawing



With TOUCH SCREEN

Outline Drawing

