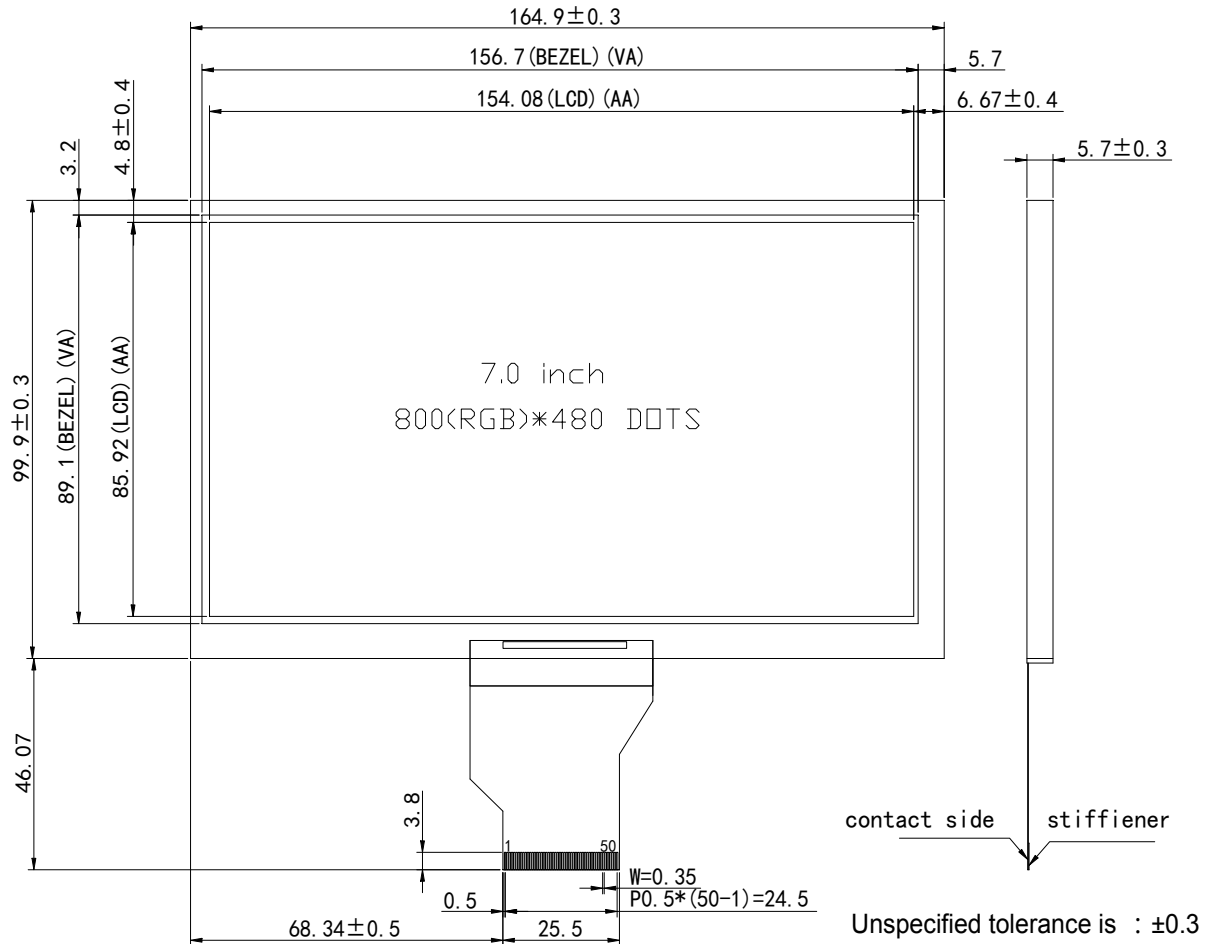




## Pin Connections

| Pin   | Symbol | I/O | Function                          | Pin   | Symbol | I/O | Function                              |
|-------|--------|-----|-----------------------------------|-------|--------|-----|---------------------------------------|
| 1~2   | A      | P   | LED anode                         | 37    | DCLK   | H/L | Clock for input data                  |
| 3~4   | K      | P   | LED cathode                       | 38    | VSS    | P   | Power ground                          |
| 5     | VSS    | P   | Power ground                      | 39    | L/R    | H/L | Source left or right sequence control |
| 6     | VCOM   | P   | Common voltage                    | 40    | U/D    | H/L | Gate up to down scan control          |
| 7     | DVDD   | P   | Power supply for digital circuits | 41    | VGH    | P   | Power supply for Gate on output       |
| 8     | MODE   | H/L | DE/SYNC mode select.              | 42    | VGL    | P   | Power supply for Gate off output      |
| 9     | DE     | H/L | Data input enable                 | 43    | AVDD   | P   | Power supply for Analog circuits      |
| 10    | VSYNC  | H/L | Vertical sync input               | 44    | /REST  | H/L | Reset signal,active"L"                |
| 11    | HSYNC  | H/L | Horizontal sync input             | 45    | NC     | -   | Not connection                        |
| 12~19 | B7~B0  | H/L | Blue data bus                     | 46    | VCOM   | P   | Common voltage                        |
| 20~27 | G7~G0  | H/L | Green data bus                    | 47    | DITHB  | H/L | Dithering function enable control     |
| 28~35 | R7~R0  | H/L | Red data bus                      | 48    | VSS    | P   | Power ground                          |
| 36    | VSS    | P   | Power ground                      | 49~50 | NC     | -   | Not connection                        |

## Basic Specifications

| Item                  | Specifications |
|-----------------------|----------------|
| Size                  | 7 inch         |
| Resolution            | 800×3(RGB)×480 |
| Color depth           | 16M            |
| Viewing direction     | 12 o'clock     |
| Operation temperature | -20 °C ~70 °C  |
| Storage temperature   | -30 °C ~ 80 °C |
| Interface type        | RGB interface  |

## DC Electrical Characteristics&Backlight Driving Conditions

| Item                                  | Symbol                          | Min.     | Typ.  | Max.     | Unit |
|---------------------------------------|---------------------------------|----------|-------|----------|------|
| Power supply voltage                  | DVDD                            | 3.0      | 3.3   | 3.6      | V    |
|                                       | AVDD                            | 10.2     | 10.4  | 10.6     | V    |
|                                       | VGH                             | 15.3     | 16.0  | 16.7     | V    |
|                                       | VGL                             | -7.7     | -7.0  | -6.3     | V    |
| Input signal voltage                  | VCOM                            | 3.6      | 3.8   | 4.0      | mA   |
| Input logic high voltage              | V <sub>IH</sub>                 | 0.7 DVDD | -     | DVDD     | V    |
| Input logic low voltage               | V <sub>IL</sub>                 | 0        | -     | 0.3 DVDD | V    |
| Power supply for LED backlight        | V <sub>F</sub>                  | -        | 9.6   | -        | V    |
| Current for LED backlight             | I <sub>F</sub>                  | -        | 160   | -        | mA   |
| Operating life time for LED backlight | Ta=25℃and I <sub>F</sub> =160mA | -        | 20000 | -        | Hrs  |

## Optical Specifications

| Item           |       | Symbol | Condition           | Min. | Typ. | Max. | Unit   |
|----------------|-------|--------|---------------------|------|------|------|--------|
| View angles    | VERT  | θT     | CR ≥ 10<br>(Note)   | 60   | 70   | -    | Degree |
|                |       | θB     |                     | 50   | 60   | -    |        |
|                | HOR   | θL     |                     | 60   | 70   | -    |        |
|                |       | θR     |                     | 60   | 70   | -    |        |
| Contrast ratio |       | CR     | θ=0°                | 400  | 500  | -    | -      |
| Chromaticity   | White | X      | Backlight is on     | 0.25 | 0.30 | 0.35 |        |
|                |       | Y      |                     | 0.25 | 0.30 | 0.35 |        |
| Luminance      |       | L      | Ta=25℃and If =160mA | -    | 300  | -    | cd/m²  |

Note: T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock