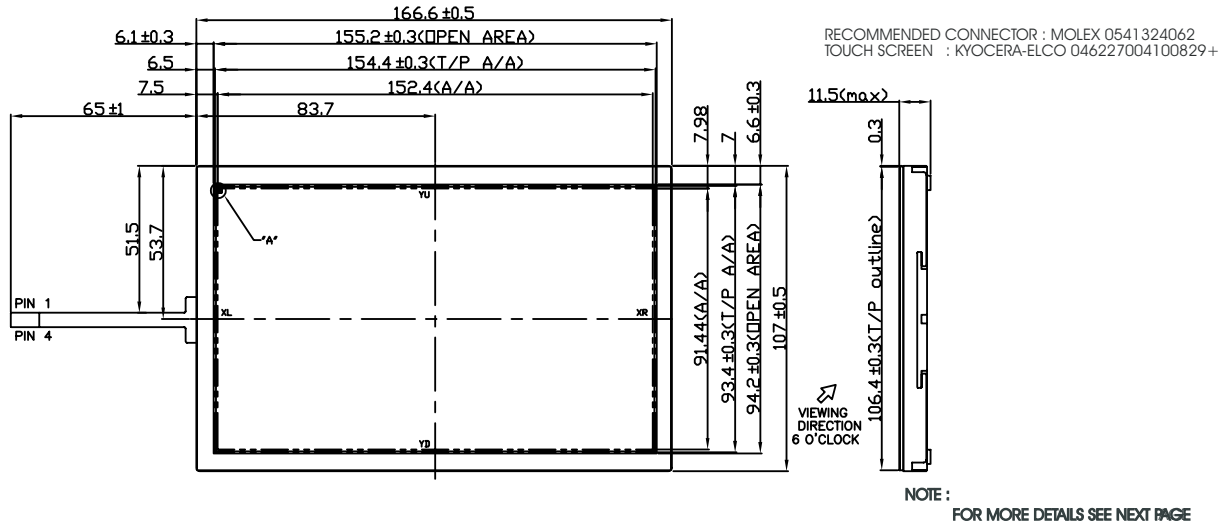


# HDA700L / 700L-H (High Brightness)

## Dimensional Drawing

7, WVGA (800 X480) , TFT Color Graphics ,White LED Backlight



## Features

Viewing Angle(H/V).....130/120 degrees  
High Contrast.....250:1  
Fast Response Time(R/F).....20 msec  
Built-in Controller.....none  
Touch Screen .....optional  
High Brightness (HDA700L-H).....500 cd/m<sup>2</sup>

## Physical Data

Module Size.....165.0W x106.8H x11.06T mm  
Viewing Area Size.....152.4W x84.3 H mm  
Dot Pitch.....0.0635W x 0.1905H mm  
Weight.....161 g

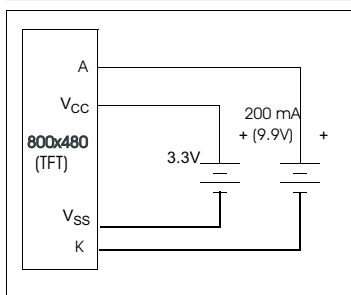
## Electrical Characteristics (VCC=3.3±0.125V 25°C)

| PARAMETER               | SYM              | CONDITION              | MIN                 | TYP     | MAX                 | UNIT              |
|-------------------------|------------------|------------------------|---------------------|---------|---------------------|-------------------|
| OPERATING VOLTAGE       | V <sub>CC</sub>  | -                      | 3.0                 | 3.3     | 3.6                 | V                 |
| OPERATING VOLTAGE W LED | V <sub>LED</sub> | -                      | -                   | 9.0     | -                   | V                 |
| INPUT HIGH VOLTAGE      | V <sub>IH</sub>  | -                      | 0.7*V <sub>CC</sub> | -       | V <sub>CC</sub>     | V                 |
| INPUT LOW VOLTAGE       | V <sub>IL</sub>  | -                      | 0                   | -       | 0.3*V <sub>CC</sub> | V                 |
| OPERATING CURRENT       | I <sub>CC</sub>  | V <sub>CC</sub> = 3.3V | -                   | 450     | 585                 | mA                |
| OPERATING CURRENT W LED | I <sub>LED</sub> | -                      | -                   | 200     | -                   | mA                |
| POWER CONSUMPTION       | P                | Logic only             | -                   | 1.485   | 1.931               | W                 |
| BRIGHTNESS              | L                | HDA700L/700LH          | 300/450             | 350/500 | -                   | cd/m <sup>2</sup> |

## Pin Connections

| PIN NO. | SYMBOL          |     | FUNCTION       |
|---------|-----------------|-----|----------------|
| 1       | V <sub>CC</sub> | -   | Power Supply   |
| 2       | V <sub>CC</sub> | -   | Power Supply   |
| 3       | V <sub>CC</sub> | -   | Power Supply   |
| 4       | V <sub>CC</sub> | -   | Power Supply   |
| 5       | NC              | -   | No Connection  |
| 6       | DTMG            | H/L | Display Timing |
| 7       | V <sub>SS</sub> | -   | Power Ground   |
| 8       | NC              | -   | No Connection  |
| 9       | V <sub>SS</sub> | -   | Power Ground   |
| 10      | NC              | -   | No Connection  |
| 11      | V <sub>SS</sub> | -   | Power Ground   |
| 12-14   | B5-B3           | H/L | Blue Data 5-3  |
| 15      | V <sub>SS</sub> | -   | Power Ground   |
| 16-18   | B2-B0           | H/L | Blue Data 2-0  |
| 19      | V <sub>SS</sub> | -   | Power Ground   |
| 20-22   | G5-G3           | H/L | Green Data 5-3 |
| 23      | V <sub>SS</sub> | -   | Power Ground   |
| 24-26   | G2-G0           | H/L | Green Data 2-0 |
| 27      | V <sub>SS</sub> | -   | Power Ground   |
| 28-30   | R5-R3           | H/L | Red Data 5-3   |
| 31      | V <sub>SS</sub> | -   | Power Ground   |
| 32-34   | R2-R0           | H/L | Red Data 2-0   |
| 35      | NC              | -   | No Connection  |
| 36      | V <sub>SS</sub> | -   | Power Ground   |
| 37      | V <sub>SS</sub> | -   | Power Ground   |
| 38      | DCLK            | H/L | Data Clock     |
| 39      | V <sub>SS</sub> | -   | Power Ground   |
| 40      | V <sub>SS</sub> | -   | Power Ground   |

## Power Supply



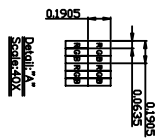
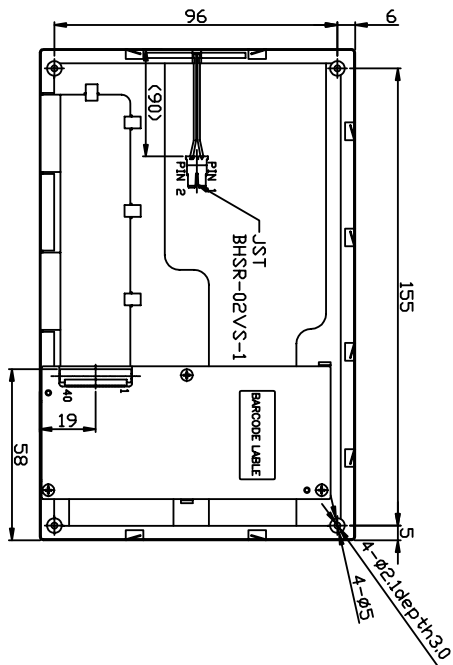
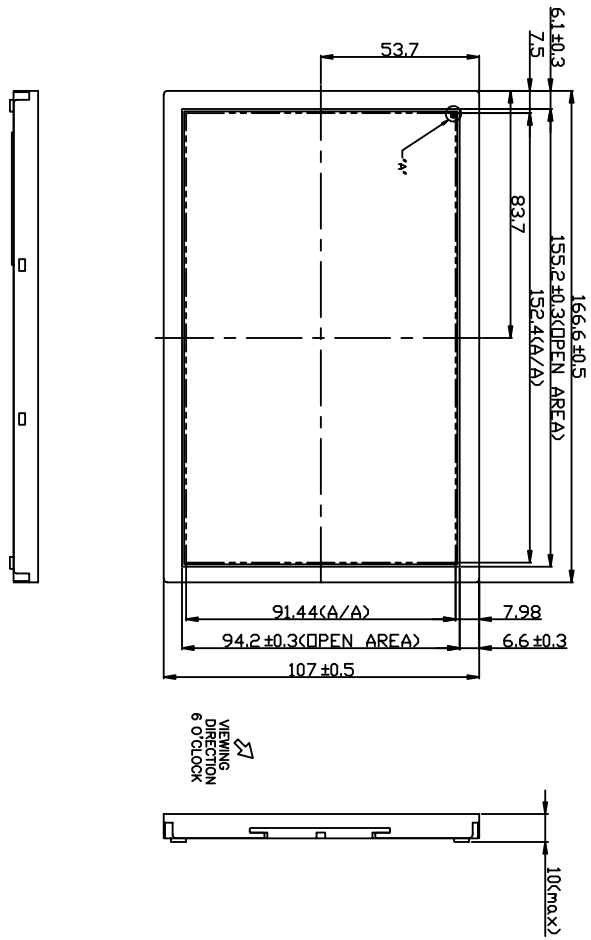
## Absolute Maximum Ratings

| PARAMETER                   | SYMBOL           | MIN  | MAX                   | UNIT |
|-----------------------------|------------------|------|-----------------------|------|
| SUPPLY VOLTAGE              | V <sub>CC</sub>  | -0.3 | 4.3                   | V    |
| INPUT VOLTAGE               | V <sub>IN</sub>  | -0.3 | V <sub>CC</sub> + 0.3 | V    |
| OPERATING TEMPERATURE       | T <sub>OP</sub>  | -20  | +60                   | °C   |
| STORAGE TEMPERATURE         | T <sub>STG</sub> | -30  | +80                   | °C   |
| BACKLIGHT CURRENT (WHT LED) | I <sub>LED</sub> | -    | 250                   | mA   |

## HDA700L / HDA700L-H

## Dimensional Drawing

7 ,WVGA (800 X480) , TFT Color Graphics ,White LED Backlight



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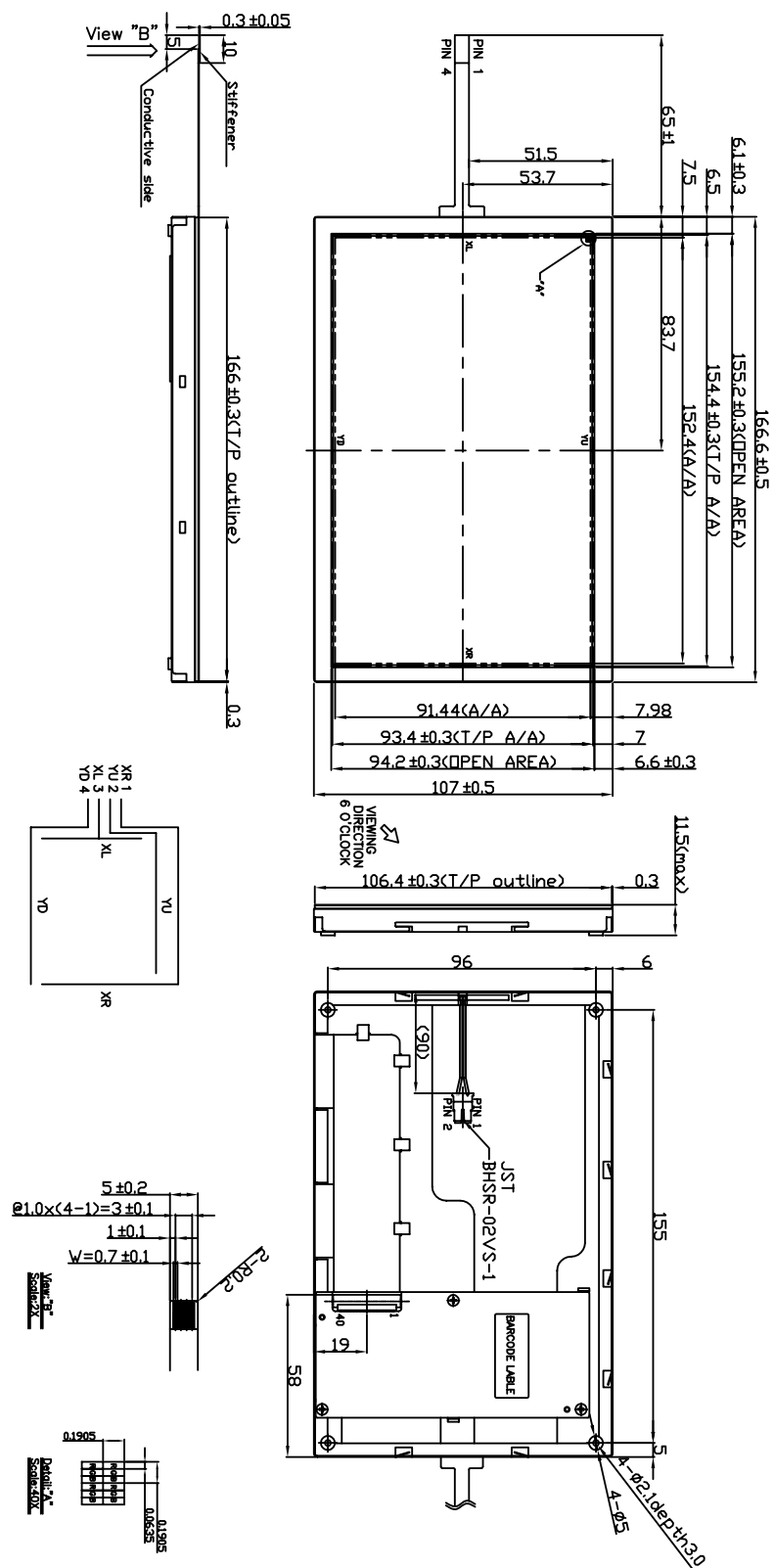
## HDA700L - T

## Dimensional Drawing

7 ,WVGA (800 X480) , TFT, with Touch Screen, White LED Backlight

With TOUCH SCREEN

Touch Screen CONNECTOR : KYOCERA-ELCO 046227004100829+



# HANTRONIX

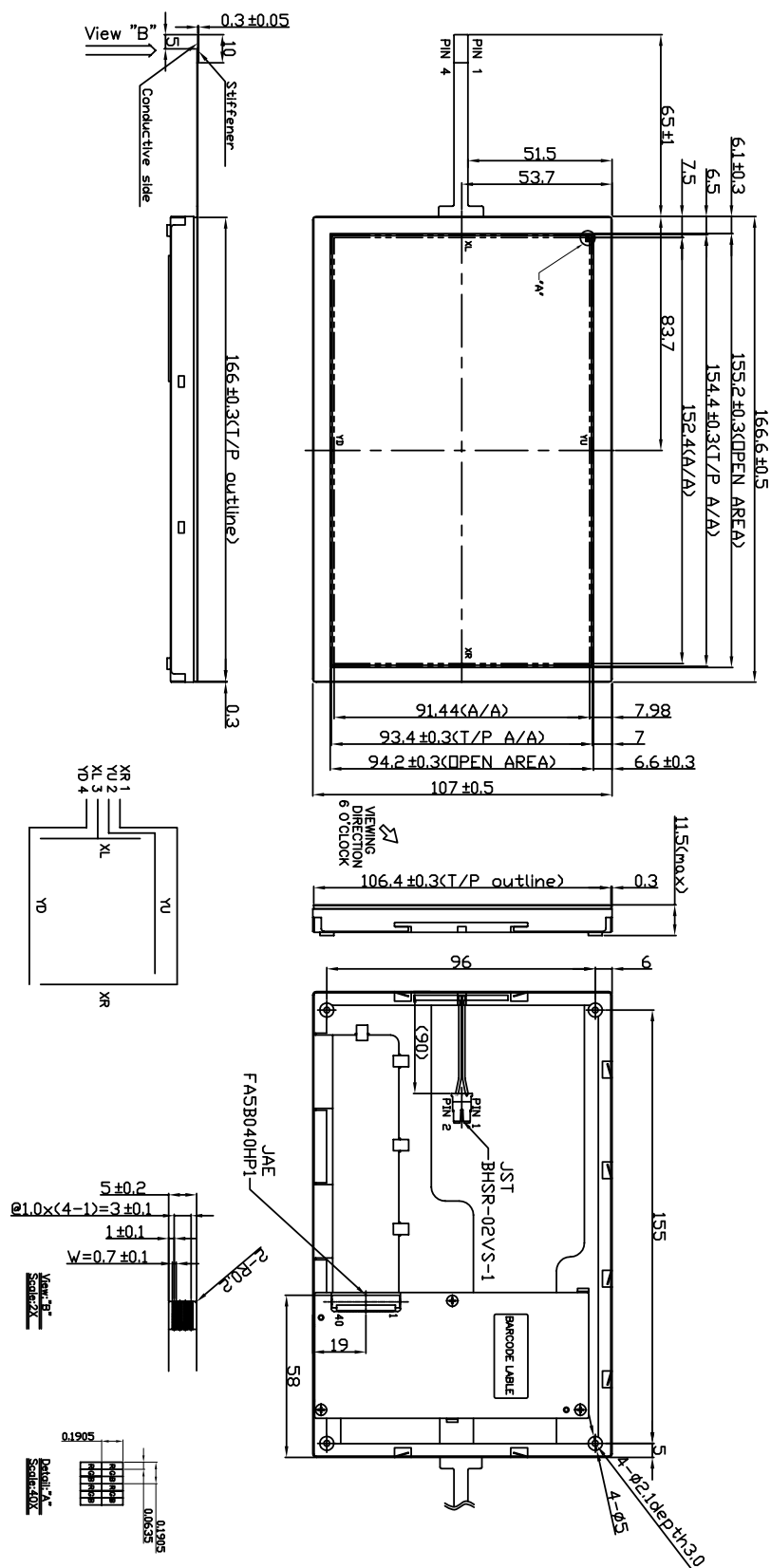
# HDA700LT -H

Dimensional Drawing

7 ,WVGA (800 X480) , TFT, with Touch Screen, White LED Backlight

With TOUCH SCREEN

Touch Screen CONNECTOR : KYOCERA-ELCO 046227004100829+



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