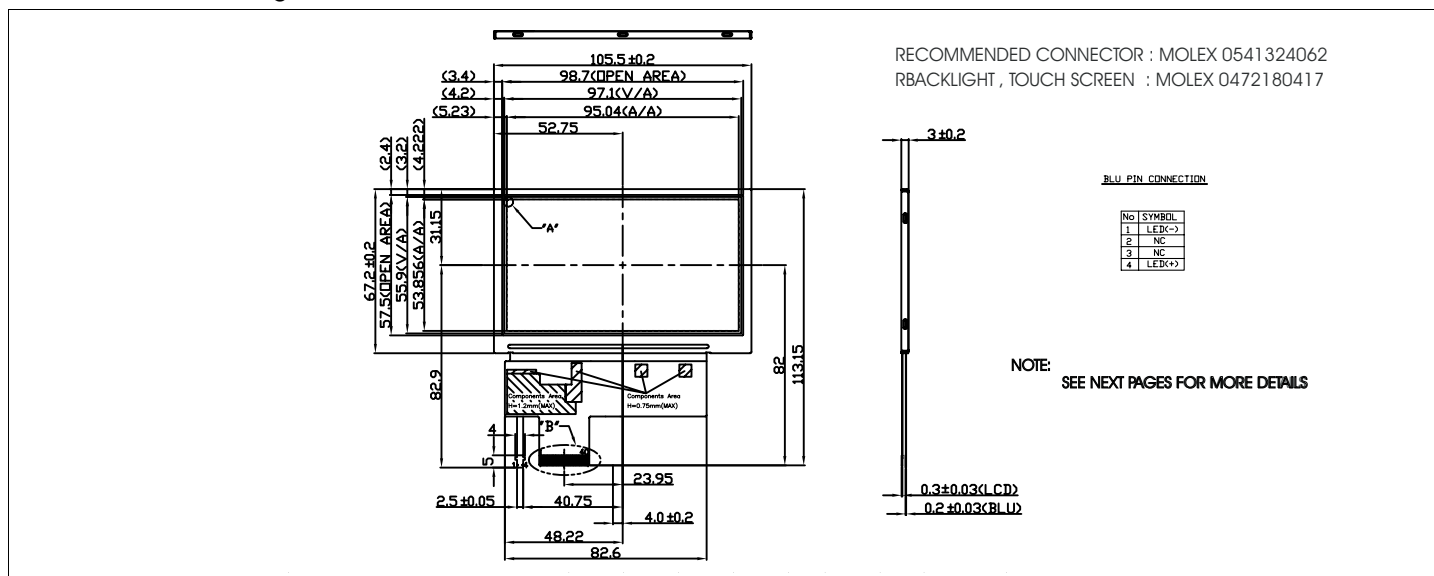


# HDA430 / 430-H (High Brightness)

Dimensional Drawing

4.3", 480x272 , TFT, Transmissive Color, Landscape, White LED Backlight



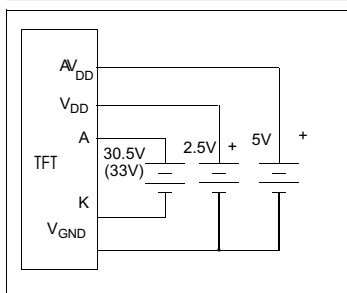
## Features

Viewing Angle(H/V).....130/110 degrees  
High Contrast.....450  
Fast Response Time.....50 msec  
Built-in DC-DC Converter  
Built-in Controller.....none  
Touch screen .....optional  
High Brightness (HDA430-H).....650 cd/m

## Physical Data

Module Size.....105.5W x 67.2H x 3.0T mm  
Viewing Area Size.....95.04W x 53.85H mm  
Dot Pitch.....0.198W x 0.198H mm  
Weight.....53g

## Power Supply



## Electrical Characteristics (VDD=2.5±0.125V 25°C)

| PARAMETER             | SYM                         | CONDITION    | MIN                | TYP     | MAX                | UNIT              |
|-----------------------|-----------------------------|--------------|--------------------|---------|--------------------|-------------------|
| OPERATING VOLTAGE     | V <sub>DD</sub>             | -            | 2.3                | 2.5     | 3.6                | V                 |
| OPERATING VOLTAGE     | V <sub>AVDD</sub>           | -            | 4.8                | 5.0     | 5.2                | V                 |
| INPUT HIGH VOLTAGE    | V <sub>HI</sub>             | -            | 0.7V <sub>DD</sub> | -       | V <sub>DD</sub>    | V                 |
| INPUT LOW VOLTAGE     | V <sub>LI</sub>             | -            | 0                  | -       | 0.3V <sub>DD</sub> | V                 |
| OPERATING CURRENT     | I <sub>DD</sub>             | -            | -                  | 3.2     | 6                  | mA                |
| OPERATING CURRENT     | A <sub>I<sub>DD</sub></sub> | -            | -                  | 17.4    | 27                 | mA                |
| LED OPERATING VOLTAGE | V <sub>LED</sub>            | HDA430/430-H | -                  | 30.5/33 | -                  | V                 |
| OPERATING CURRENT     | I <sub>FLED</sub>           | HDA430/430-H | -                  | 18/20   | -                  | mA                |
| POWER CONSUMPTION     | P <sub>D</sub>              | HDA430/430-H | -                  | 645/755 | -                  | mW                |
| BRIGHTNESS            | L                           | HDA430/430-H | 320/500            | 370/650 | -                  | cd/m <sup>2</sup> |

## Pin Connections

| PIN NO. | SYMBOL | FUNCTION |                      |
|---------|--------|----------|----------------------|
| 1-2     | GND    | I        | Ground               |
| 3-4     | VDD    | I        | +2.5V Power Supply   |
| 5       | R0     | H/L      | Red Data Bit 0       |
| 6       | R1     | H/L      | Red Data Bit 1       |
| 7       | R2     | H/L      | Red Data Bit 2       |
| 8       | R3     | H/L      | Red Data Bit 3       |
| 9       | R4     | H/L      | Red Data Bit 4       |
| 10      | R5     | H/L      | Red Data Bit 5       |
| 11      | R6     | H/L      | Red Data Bit 6       |
| 12      | R7     | H/L      | Red Data Bit 7       |
| 13      | G0     | H/L      | Green Data Bit 0     |
| 14      | G1     | H/L      | Green Data Bit 1     |
| 15      | G2     | H/L      | Green Data Bit 2     |
| 16      | G3     | H/L      | Green Data Bit 3     |
| 17      | G4     | H/L      | Green Data Bit 4     |
| 18      | G5     | H/L      | Green Data Bit 5     |
| 19      | G6     | H/L      | Green Data Bit 6     |
| 20      | G7     | H/L      | Green Data Bit 7     |
| 21      | B0     | H/L      | Blue Data Bit 0      |
| 22      | B1     | H/L      | Blue Data Bit 1      |
| 23      | B2     | H/L      | Blue Data Bit 2      |
| 24      | B3     | H/L      | Blue Data Bit 3      |
| 25      | B4     | H/L      | Blue Data Bit 4      |
| 26      | B5     | H/L      | Blue Data Bit 5      |
| 27      | B6     | H/L      | Blue Data Bit 6      |
| 28      | B7     | H/L      | Blue Data Bit 7      |
| 29      | GND    | I        | Ground               |
| 30      | PCLK   | H/L      | Data Clock           |
| 31      | DISP   | H/L      | Display ON/OFF (H/L) |
| 32      | HSYNC  | H        | Horizontal Sync      |
| 33      | VSYNC  | H        | Vertical Sync        |
| 34      | NC     | -        | No Connection        |
| 35-36   | AVDD   | I        | +5V Power Supply     |
| 37      | NC     | -        | No Connection        |
| 38      | NC     | -        | No Connection        |
| 39      | NC     | -        | No Connection        |
| 40      | NC     | -        | No Connection        |

## Absolute Maximum Ratings

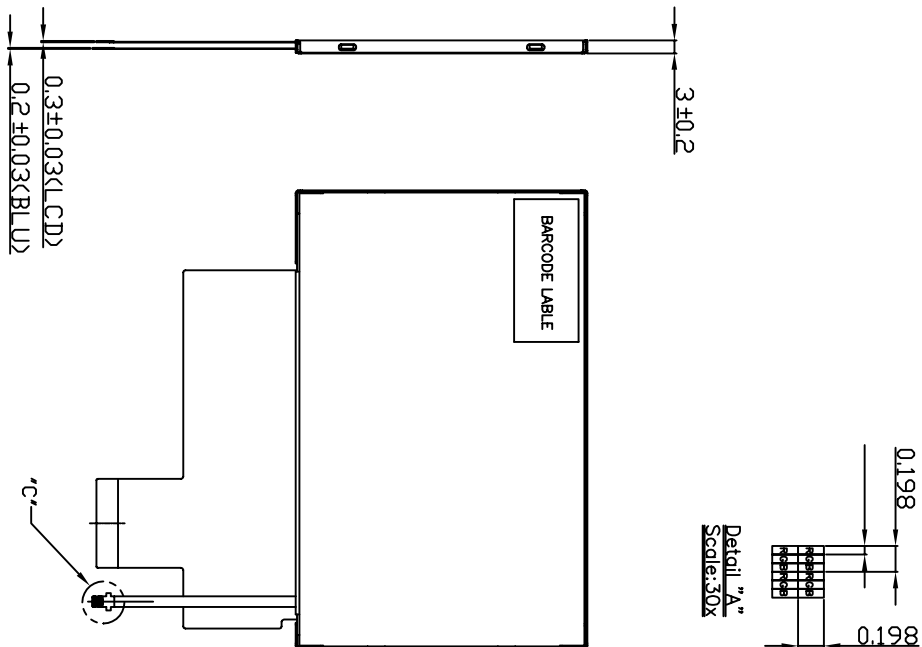
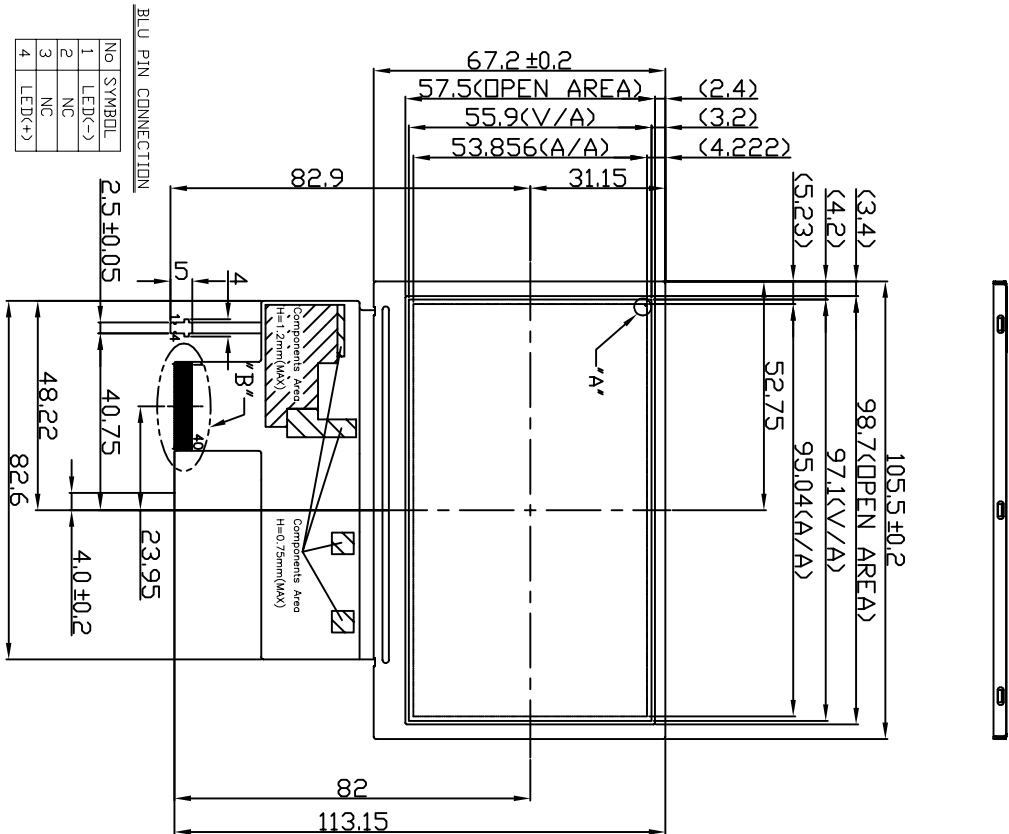
| PARAMETER                | SYMBOL            | MIN  | MAX                  | UNIT |
|--------------------------|-------------------|------|----------------------|------|
| SUPPLY VOLTAGE           | V <sub>DD</sub>   | 0    | 6.0                  | V    |
| SUPPLY VOLTAGE           | V <sub>AVDD</sub> | 0    | 6.0                  | V    |
| BACKLIGHT CURRENT (LED ) | I <sub>LED</sub>  | -    | 25                   | mA   |
| INPUT VOLTAGE            | V <sub>IN</sub>   | -0.3 | V <sub>DD</sub> +0.3 | V    |
| OPERATING TEMPERATURE    | T <sub>OP</sub>   | -20  | 70                   | °C   |
| STORAGE TEMPERATURE      | T <sub>STG</sub>  | -30  | 80                   | °C   |

**HANTRONIX**

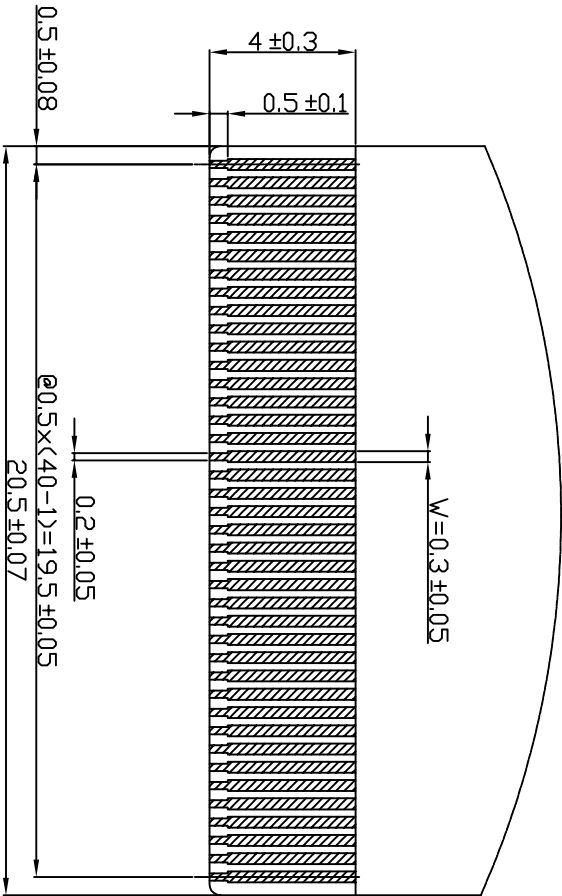
HDA430 / HDA430-H

Dimensional Drawing

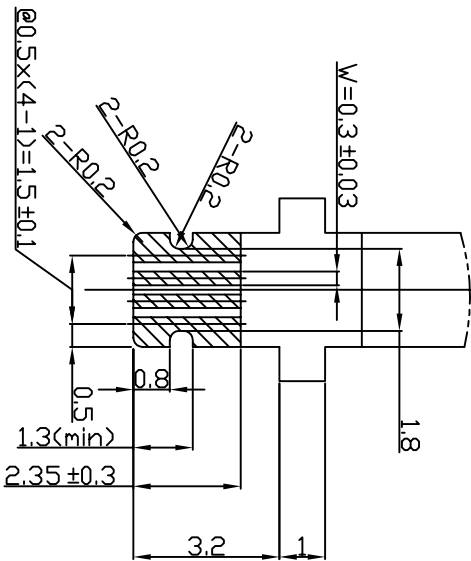
4.3",480x272 ,TFT ,Transmissive Color, Landscape , White LED Backlight



Detail "B"  
Scale: 8x

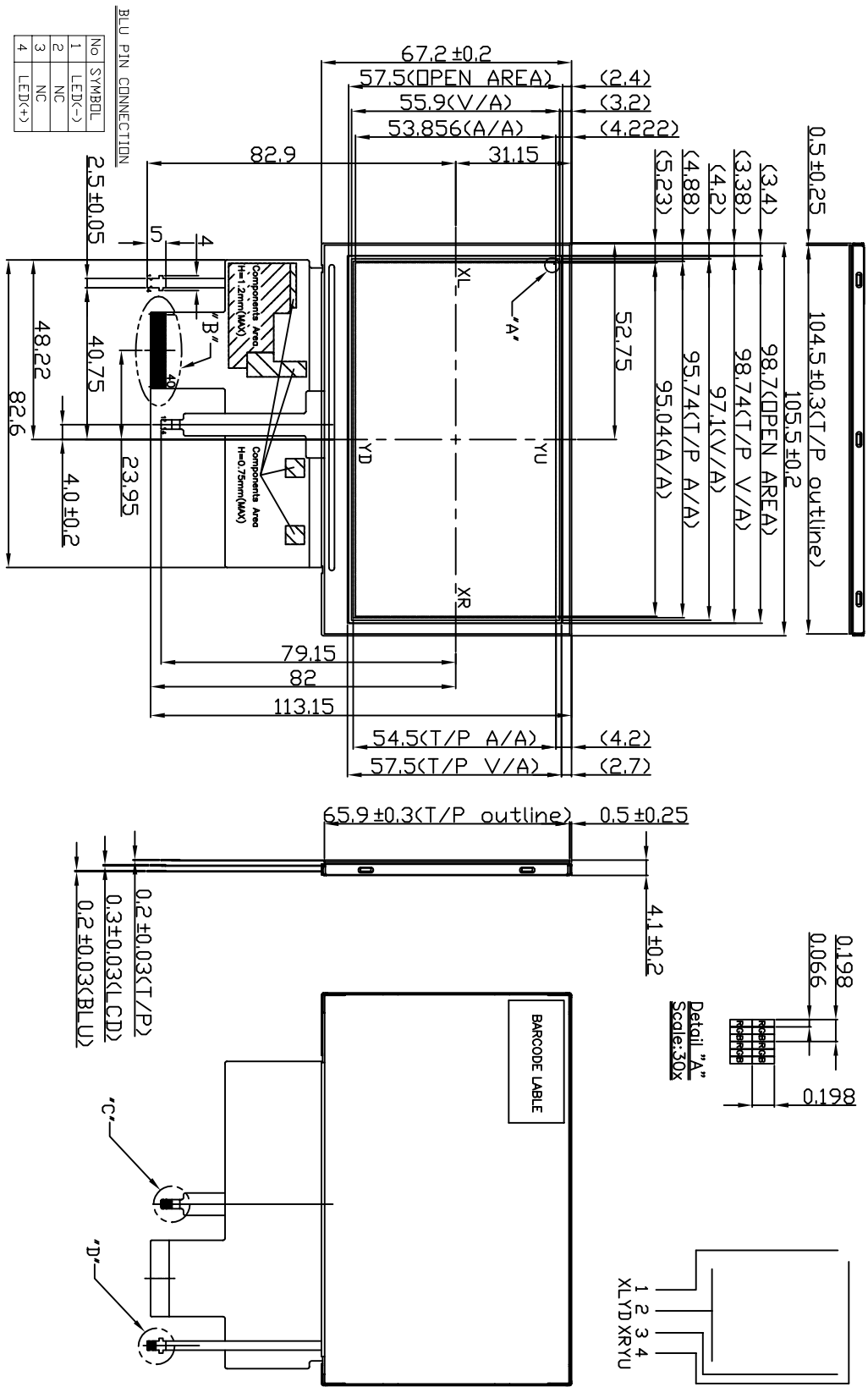


Detail "C"  
Scale: 10x



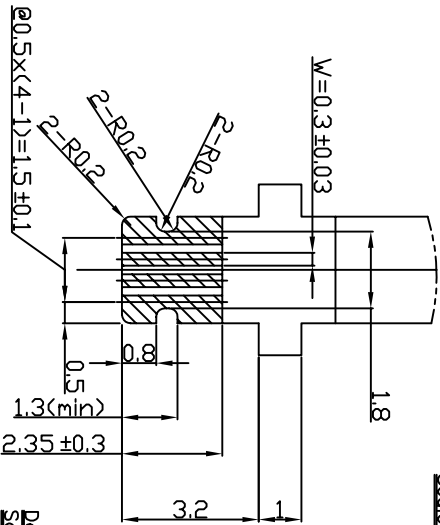
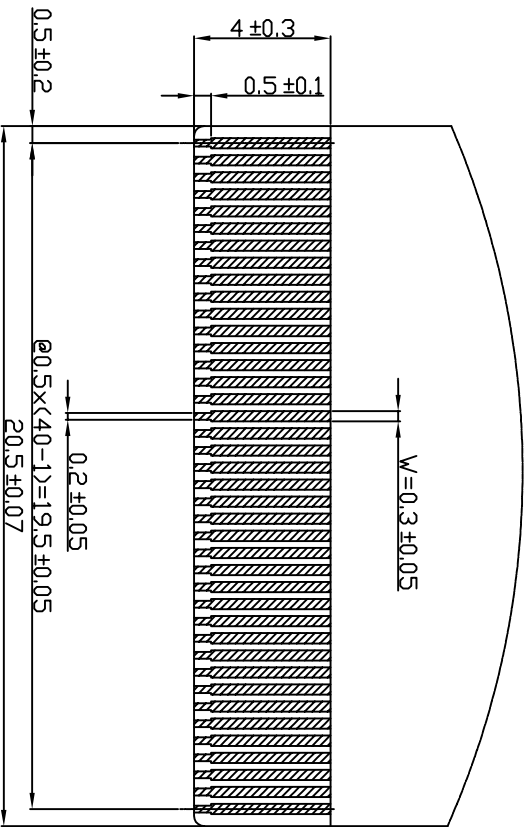
With TOUCH SCREEN

RECOMMENDED TOUCH SCREEN CONNECTOR : MOLEX 0472180417

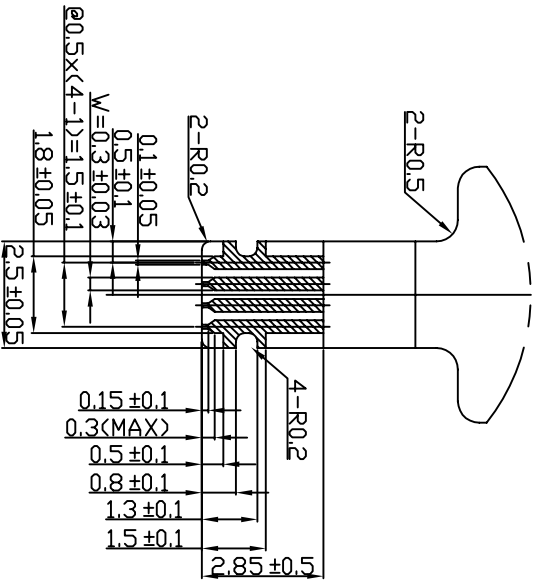


With TOUCH SCREEN

Detail "B"  
Scale: 8x



Detail "C"  
Scale: 10x



Detail "D"  
Scale: 10x