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## **SPECIFICATION**

**CUSTOMER :** \_\_\_\_\_

**MODEL NO. :** **SFD-056CT**

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| <b>APPROVED BY:</b><br>( FOR CUSTOMER USE ONLY ) | <b>PCB VERSION:</b> <b>DATA:</b> |
|--------------------------------------------------|----------------------------------|

| <b>SALES BY</b>      | <b>APPROVED BY</b>   | <b>CHECKED BY</b>    | <b>PREPARED BY</b>   |
|----------------------|----------------------|----------------------|----------------------|
| <br><br><br><br><br> | <br><br><br><br><br> | <br><br><br><br><br> | <br><br><br><br><br> |
| <b>ISSUED DATE:</b>  |                      |                      |                      |

ST-QPP-002-05B

## Record of Revision

[illegible]

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## 1. General Specifications

| No. | Item                        | Specification                | Remark |
|-----|-----------------------------|------------------------------|--------|
| 1   | LCD size                    | 5.6 inch(Diagonal)           |        |
| 2   | Driver element              | a-Si TFT active matrix       |        |
| 3   | Resolution                  | 640X(RGB)X480                |        |
| 4   | Display Model               | Normally White, Transmissive |        |
| 5   | Dot Pitch                   | 0.0588(W)X0.1764(H) mm       |        |
| 6   | Active Area                 | 112.896 (W)X84.672(H) mm     |        |
| 7   | Module Size                 | 126.5(W)X100(H)X5.7(D) mm    | Note1  |
| 8   | Surface treatment           | Anti-Glare                   |        |
| 9   | Color arrangement           | RGB-stripe                   |        |
| 10  | Interface                   | Digital                      |        |
| 11  | Backlight Power consumption | 1.900W(Typ)                  | Note2  |
| 12  | Panel Power consumption     | 0.660W(Typ)                  | Note3  |
| 13  | Weight                      | 127.5g                       |        |

Note 1: Refer to Mechanical Drawing.

Note 2: Including LED Driver power consumption.

Note 3: Including T-con Board power consumption.

## 2. Pin Assignment

### 2.1. TFT LCD Panel Driving Section

FPC connector is used for the module electronics interface. The recommended model is

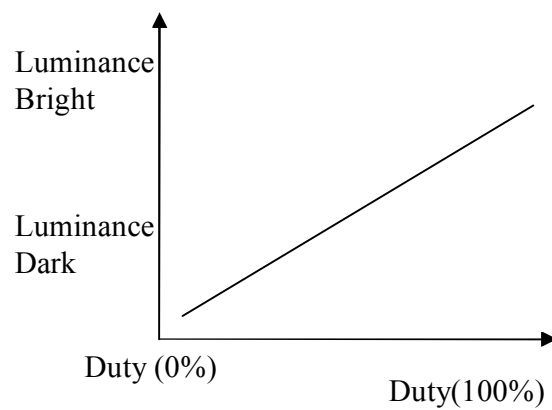
FH19-40S -0.5SH manufactured by HiRose.

| Pin No | Symbol            | P/I | Function                                 | Remark  |
|--------|-------------------|-----|------------------------------------------|---------|
| 1      | V <sub>LED</sub>  | P   | Power Voltage for LED circuit            |         |
| 2      | V <sub>LEDP</sub> | P   | Power Voltage for LED circuit            |         |
| 3      | ADJ               | I   | Adjust the LED brightness with PWM Pulse | Note1,2 |
| 4      | G <sub>LED</sub>  | P   | Ground for LED circuit                   |         |
| 5      | G <sub>LED</sub>  | P   | Ground for LED circuit                   |         |
| 6      | V <sub>cc</sub>   | P   | Power Voltage for digital circuit        |         |
| 7      | V <sub>cc</sub>   | P   | Power Voltage for digital circuit        |         |
| 8      | MODE              | I   | DE or HV mode control                    | Note 3  |
| 9      | DE                | I   | Data enable                              |         |
| 10     | VS                | I   | Vsync signal input                       |         |
| 11     | HS                | I   | Hsync signal input                       |         |
| 12     | GND               | P   | Power ground                             |         |
| 13     | B5                | I   | Blue data input (MSB)                    |         |
| 14     | B4                | I   | Blue data input                          |         |
| 15     | B3                | I   | Blue data input                          |         |
| 16     | GND               | P   | Power ground                             |         |
| 17     | B2                | I   | Blue data input                          |         |
| 18     | B1                | I   | Blue data input                          |         |
| 19     | B0                | I   | Blue data input (LSB)                    |         |
| 20     | GND               | P   | Power ground                             |         |
| 21     | G5                | I   | Green data input (MSB)                   |         |
| 22     | G4                | I   | Green data input                         |         |

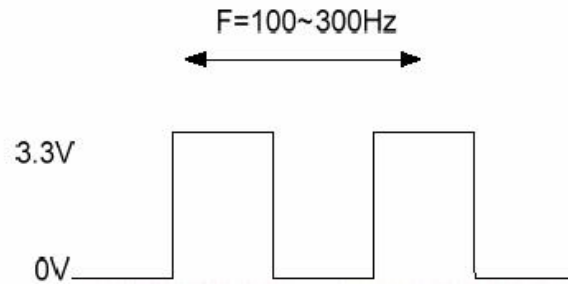
|    |      |   |                                         |         |
|----|------|---|-----------------------------------------|---------|
| 23 | G3   | I | Green data input                        |         |
| 24 | GND  | P | Power ground                            |         |
| 25 | G2   | I | Green data input                        |         |
| 26 | G1   | I | Green data input                        |         |
| 27 | G0   | I | Green data input(LSB)                   |         |
| 28 | GND  | P | Power ground                            |         |
| 29 | R5   | I | Red data input(MSB)                     |         |
| 30 | R4   | I | Red data input                          |         |
| 31 | R3   | I | Red data input                          |         |
| 32 | GND  | P | Power ground                            |         |
| 33 | R2   | I | Red data input                          |         |
| 34 | R1   | I | Red data input                          |         |
| 35 | R0   | I | Red data input(LSB)                     |         |
| 36 | GND  | P | Power ground                            |         |
| 37 | DCLK | I | Sample clock                            |         |
| 38 | GND  | P | Power ground                            |         |
| 39 | L/R  | I | Select left to right scanning direction | Note4,5 |
| 40 | U/D  | I | Select left to right scanning direction | Note4,5 |

Note: I: input, O: output t, P: Power

Note1: Pin.3 is used to adjust brightness.



Note 2:ADJ signal=0~3.3V,operation frequency:100~300Hz

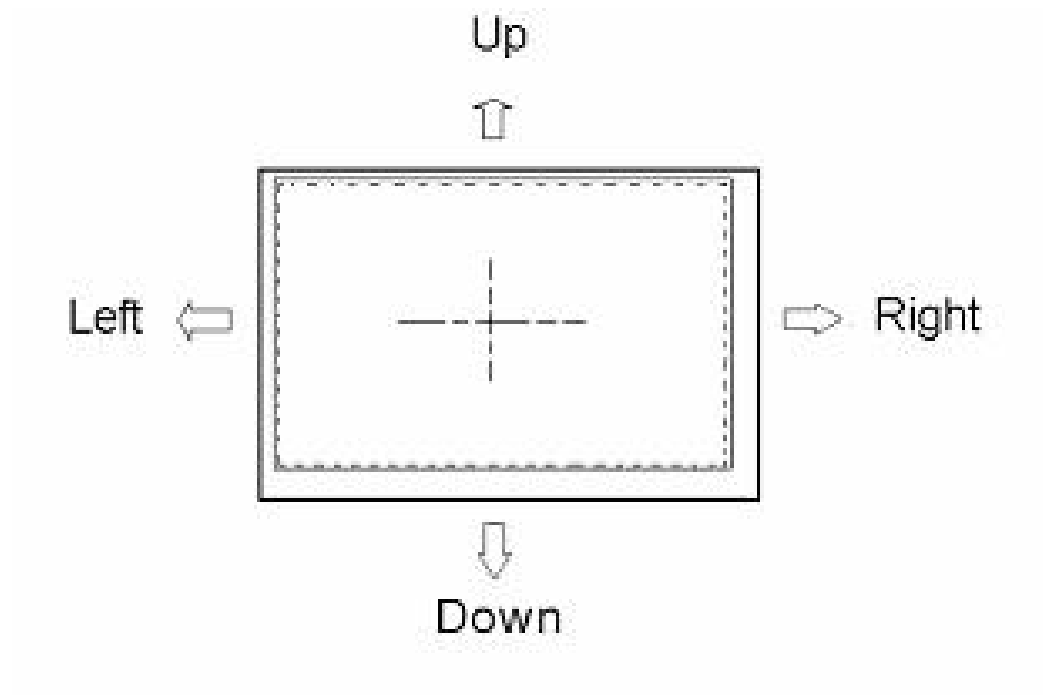


Note 3: DE Mode, Mode="H",HS floating and VS floating  
HV Mode, Mode="L" and DE floating

Note 4: Selection of scanning mode

| Setting of scan control input |     | Scanning direction        |
|-------------------------------|-----|---------------------------|
| U/D                           | L/R |                           |
| GND                           | Vcc | Up to down, left to right |
| Vcc                           | GND | Down to up, right to left |
| GND                           | GND | Up to down, right to left |
| Vcc                           | Vcc | Down to up, left to right |

Note 5: Definition of scanning direction.  
Refer to the figure as below:

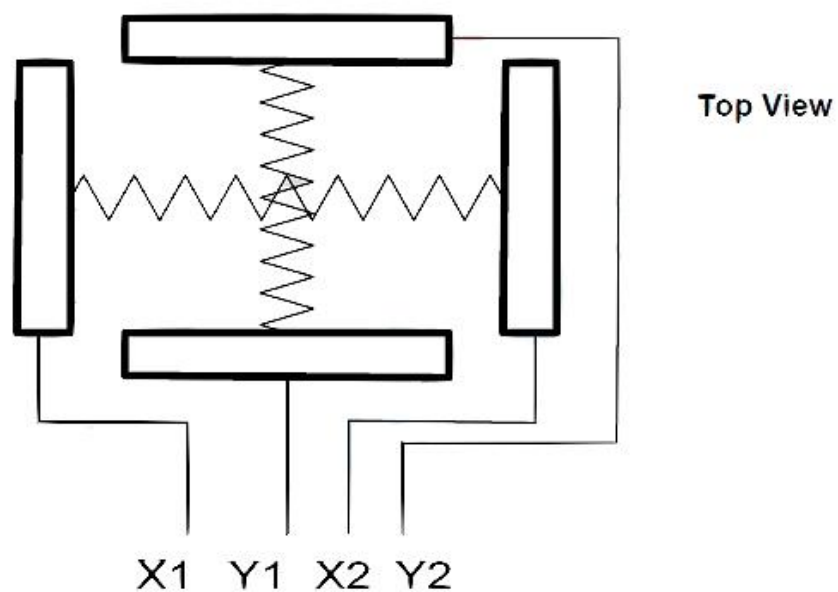




## 2.2. Touch Screen Panel Pin Definition

| Pin No. | Symbol | I/O    | Function                               | Remark |
|---------|--------|--------|----------------------------------------|--------|
| 1       | Y2     | Top    | Top electrode – differential analog    |        |
| 2       | X2     | Right  | Right electrode – differential analog  |        |
| 3       | Y1     | Bottom | Bottom electrode – differential analog |        |
| 4       | X1     | Left   | Left electrode – differential analog   |        |

Note: Touch screen panel block



### 3.Operation Specifications

#### 3.1. Absolute Maximum Rating

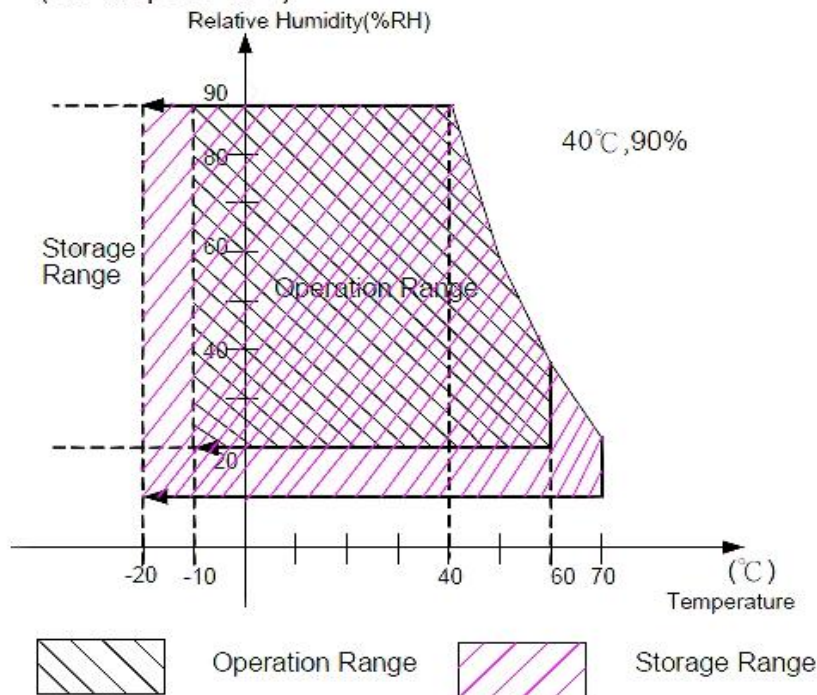
(Note 1)

| Item                  | Symbol    | Values |      | Unit | Remark   |
|-----------------------|-----------|--------|------|------|----------|
|                       |           | Min.   | Max. |      |          |
| Power voltage         | $V_{CC}$  | -0.3   | 6.5  | V    |          |
|                       | $V_{LED}$ | -0.3   | 6.5  | V    |          |
| Operation temperature | $T_{OP}$  | -10    | 60   | °C   | Note 2,3 |
| Storage temperature   | $T_{ST}$  | -20    | 70   | °C   | Note 2,3 |

Note 1: The absolute maximum rating values of the module should not be exceeded. Once exceeded absolute maximum rating values, the characteristics of the module may not be recovered. Even in an extreme condition, may result in module permanently destroyed.

Note 2: 90% RH Max.(Max wet temp. is 40°C )

Maximum wet-bulb temperature is at 38°C or less. And No condensation ( no drops of dew)



Note3: In case of temperature below 0°C, the response time of liquid crystal (LC) becomes slower and the color of panel darker than normal one.

### 3.2. Typical Operation Conditions

| Item                     | Symbol    | Values       |      |              | Unit | Remark |
|--------------------------|-----------|--------------|------|--------------|------|--------|
|                          |           | Min.         | Typ. | Max.         |      |        |
| Power voltage            | $V_{CC}$  | 3.1          | 3.3  | 3.5          | V    | Note 1 |
|                          | $V_{LED}$ | 4.6          | 5.0  | 5.4          | V    | Note 2 |
| Current Consumption      | $I_{CC}$  | -            | 200  | 250          | mA   |        |
|                          | $I_{LED}$ | -            | 380  | 450          | mA   | Note 3 |
| Input logic high voltage | $V_{IH}$  | $0.7 V_{CC}$ | -    | $1 V_{CC}$   | V    | Note 4 |
| Input logic low voltage  | $V_{IL}$  | 0            | -    | $0.3 V_{CC}$ | V    |        |
| LED life time            | -         | 20,000       | -    | -            | Hr   | Note 5 |

Note 1:  $V_{CC}$  setting should match the signals output voltage (refer to Note 4) of customer's system board.

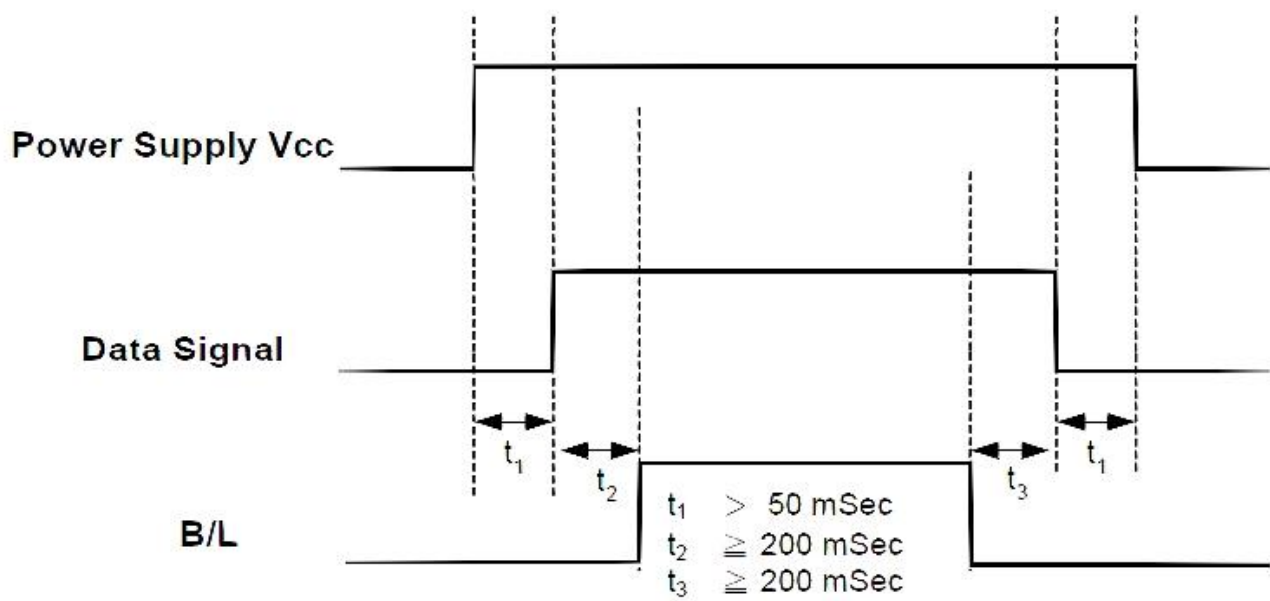
Note 2: LED driving voltage.

Note 3: LED driving current.

Note 4: DCLK, DE, HS, VS, R0~ R5, G0~ G5, B0~ B5.

Note 5: The "LED life time" is defined as the module brightness decrease to 50% original brightness at  $T_a=25^{\circ}\text{C}$  and  $V_{LED}=5.0\text{V}$ . The LED lifetime could be decreased if operating  $V_{LED}$  is larger than 5.0V.

### 3.3.Power Sequence



Note: Data includes DE, VS, HS, B0~B5, G0~G5, R0~R5, DCLK.

### 3.4.1 Timing Characteristics

#### Input/Output Timing

| Item              | Symbol | Values |       |      | Unit. | Remark         |
|-------------------|--------|--------|-------|------|-------|----------------|
|                   |        | Min.   | Typ.  | Max. |       |                |
| PXLCLK clock time | Tclk   | 33.3   | 39.7  | -    | ns    |                |
| PXLCLK pulse duty | Tcwh   | 40     | 50    | 60   | %     | Tclk           |
| DATA set-up time  | Tdsu   | 12     | -     | -    | ns    | DATA to PXLCLK |
| DATA hold time    | Tdhd   | 12     | -     | -    | ns    | DATA to PXLCLK |
| DE setup time     | Tesu   | 12     | -     | -    | ns    | DE to PXLCLK   |
| VSYNC setup time  | Tvst   | 12     | -     | -    | ns    |                |
| VSYNC hold time   | Tvhd   | 12     | -     | -    | ns    |                |
| HSYNC setup time  | Thst   | 12     | -     | -    | ns    |                |
| HSYNC hold time   | Thhd   | 12     | -     | -    | ns    |                |
| HSYNC period time | Th     | 22.91  | 31.76 | -    | us    |                |
| HSYNC width       | Thwh   | 1      | -     | -    | Tclk  |                |
| VSYNC width       | Tvwh   | 1      | -     | -    | Th    |                |
| HSYNC to CLKIN    | Thc    | -      | -     | 1    | Tclk  |                |

#### DE Mode input Timing Limitation

| DE Mode | Values |      |      | Unit | Remark     |
|---------|--------|------|------|------|------------|
|         | Min.   | Typ. | Max. |      |            |
| THC     | 48     | 160  | 765  | tclk |            |
| THD     | 640    | 640  | 640  | tclk |            |
| TH      | 688    | 800  | 1405 | tclk | 1TH=1line  |
| TVC     | 6      | 45   | 255  | line |            |
| TVD     | 480    | 480  | 480  | line |            |
| TV      | 486    | 525  | 735  | line | 1TV=1field |

# HV Mode input Timing Limitation

| HV Mode | Values |      |      | Unit | Remark     |
|---------|--------|------|------|------|------------|
|         | Min.   | Typ. | Max. |      |            |
| Thwh    | -      | 10   | -    | tclk |            |
| Thbp    | -      | 134  | -    | tclk |            |
| Thfp    | -      | 16   | -    | tclk |            |
| THD     | -      | 640  | -    | tclk |            |
| TH      | -      | 800  | -    | line |            |
| Tvwh    | -      | 2    | -    | line |            |
| Tvbp    | -      | 11   | -    | line |            |
| Tvfp    | -      | 32   | -    | line |            |
| TVD     | -      | 480  | -    | line |            |
| TV      | -      | 525  | -    | line | 1TV=1field |

### 3.4.2.Timing Diagram

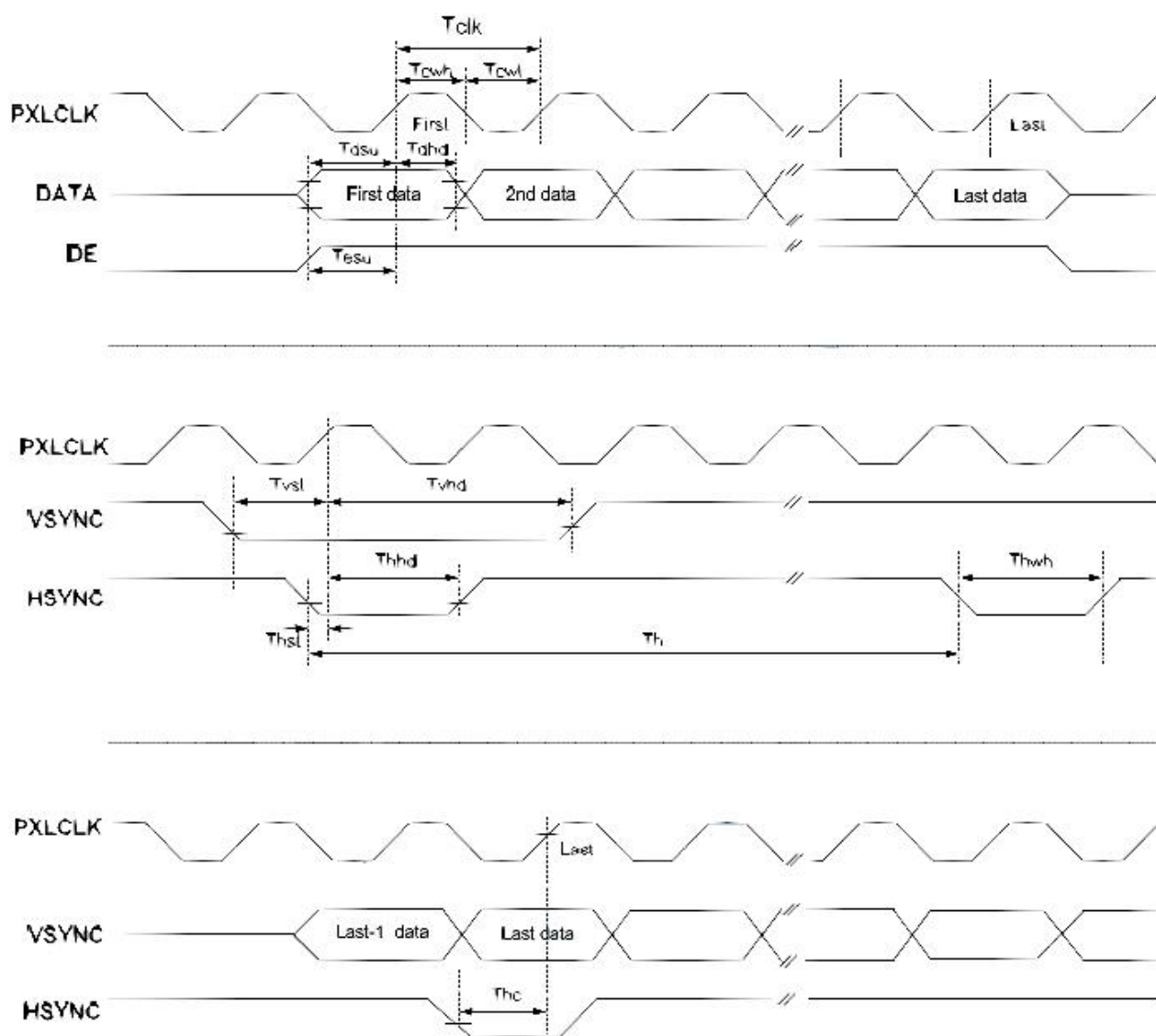


Fig.3-1 Clock and Data Input Timing Diagram



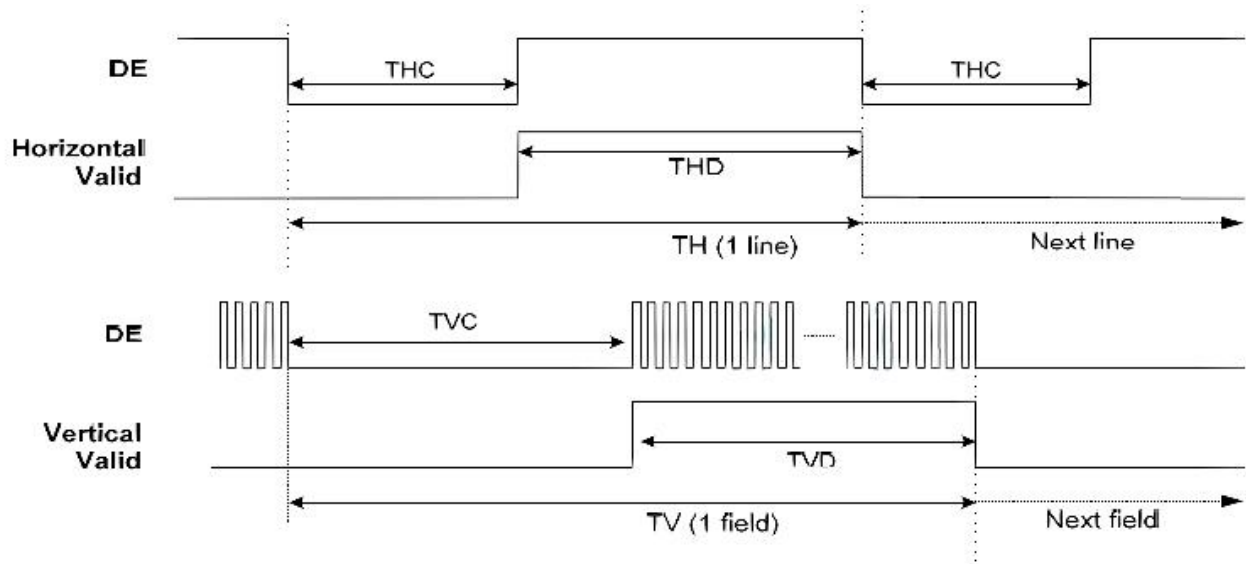


Fig.3-2 DE Mode Input Timing

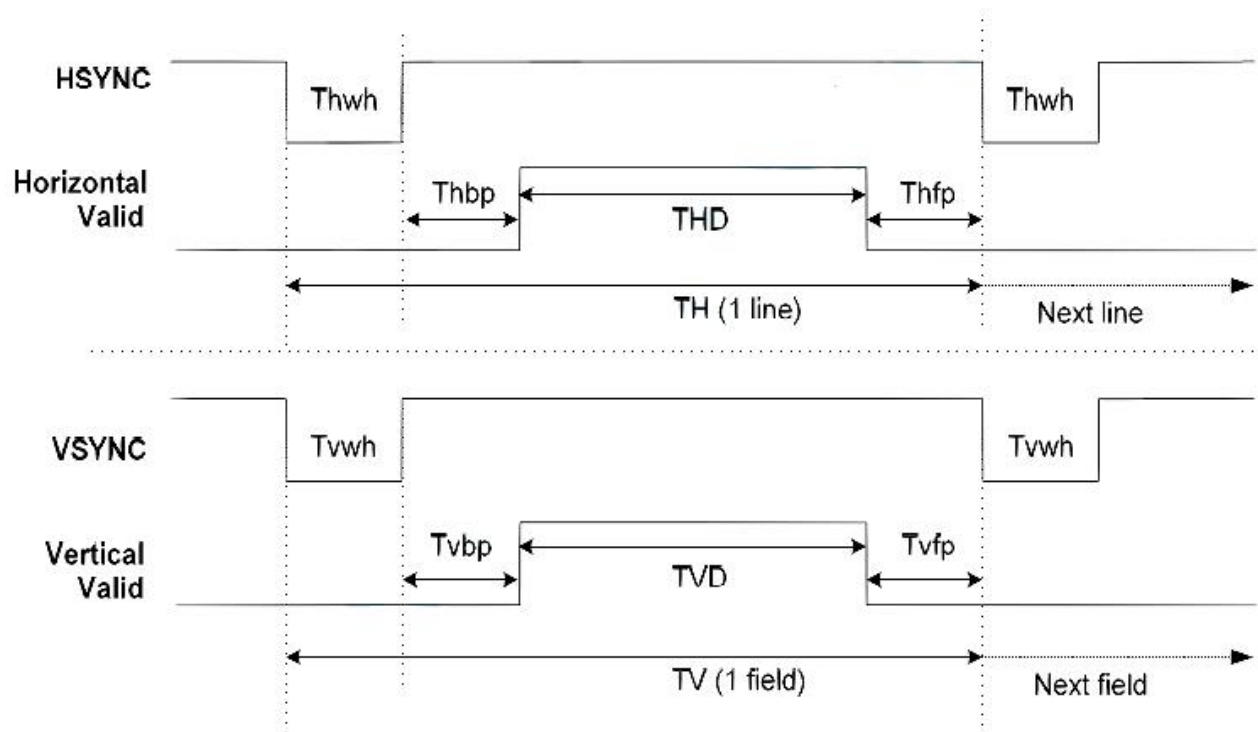


Fig.3-3 HV Mode Input Timing



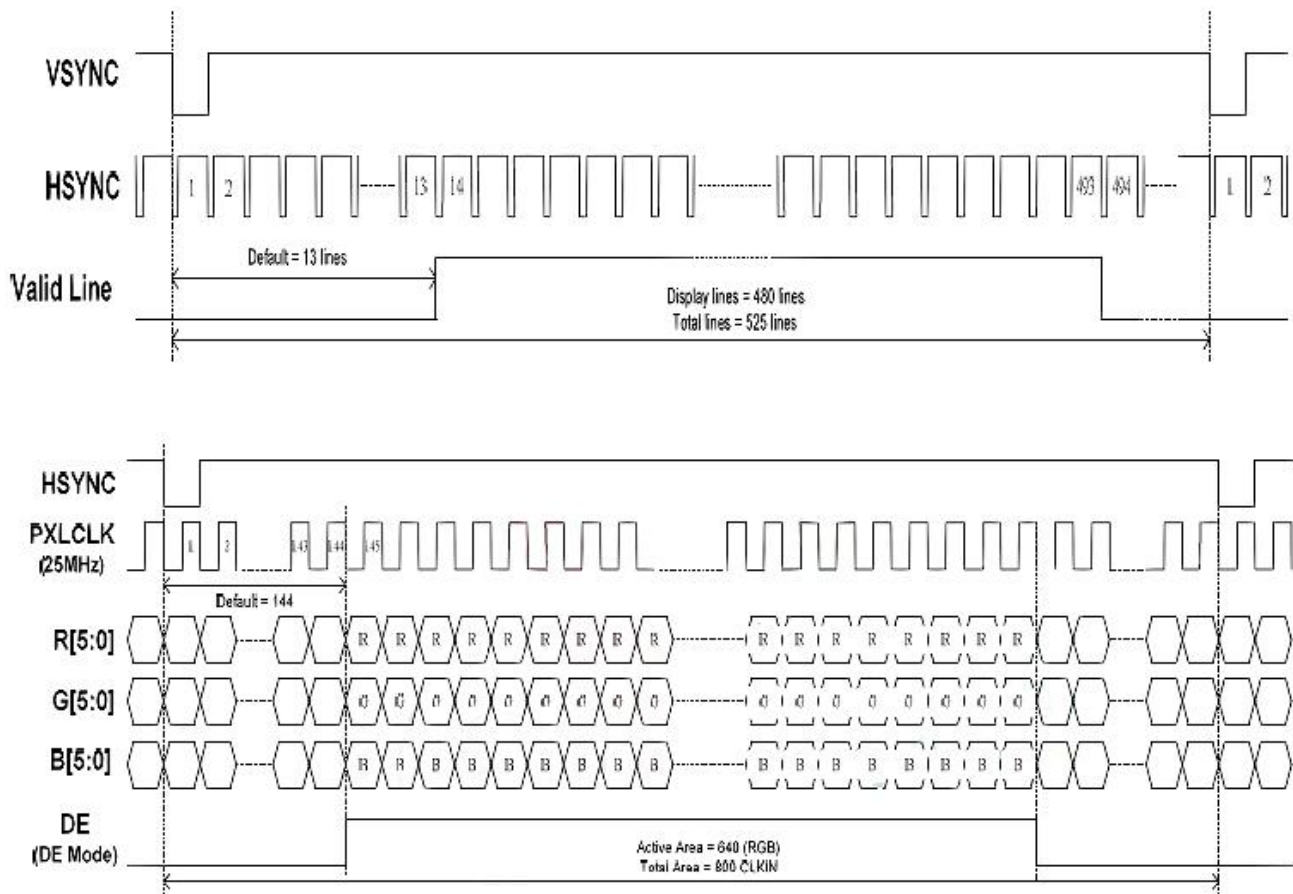


Fig. 3-4 18 bit RGB mode for 640 x (RGB) x 480

## 4. Touch Screen Panel Specifications

### 4.1. Electrical Characteristics

| Item                  | Value |      |      | Unit       | Remark                    |
|-----------------------|-------|------|------|------------|---------------------------|
|                       | Min.  | Typ. | Max. |            |                           |
| Linearity             | -1.5  | -    | 1.5  | %          | Analog X and Y directions |
| Terminal Resistance   | 150   | -    | 850  | $\Omega$   | X(Film side)              |
|                       | 200   | -    | 950  | $\Omega$   | Y(Glass side)             |
| Insulation resistance | 25    | -    | -    | M $\Omega$ | DC 25V                    |
| Voltage               | -     | 5    | 7    | V          | DC                        |
| Chattering            | -     | -    | 10   | ms         | 100k $\Omega$ pull-up     |
| Transparency          | 80    | -    | -    | %          |                           |

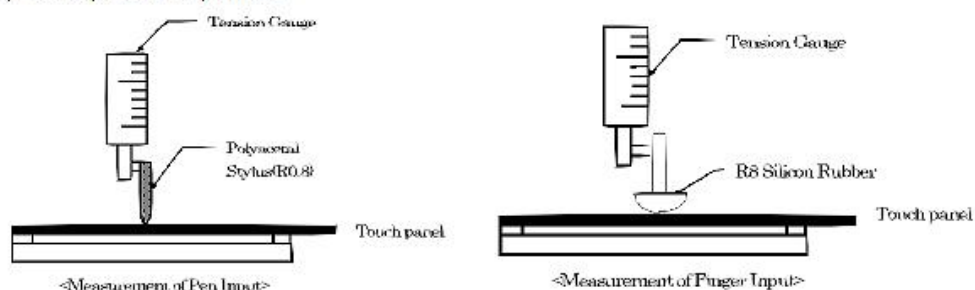
Note: Do not operate it with a thing except a polyacetal pen (tip R0.8mm or less) or a finger, especially those with hard or sharp tips such as a ball point pen or a mechanical pencil.

## 4.2.Mechanical & Reliability Characteristics

| Item                       | Value            |      |      | Unit       | Remark                   |
|----------------------------|------------------|------|------|------------|--------------------------|
|                            | Min.             | Typ. | Max. |            |                          |
| Activation force           | 80               | -    | -    | gf         | Note 1                   |
| Durability-surface Sliding | Write<br>100,000 | -    | -    | characters | Note 2                   |
| Durability-surface pitting | 1,000,000        | -    | -    | touches    | Note 3                   |
| Surface hardness           | 3                | -    | -    | H          | JIS K5400,<br>ASTM D3363 |

Note 1: Activation force test condition

- (1) Input DC 5V on X direction, Drop off Polyacetal Stylus (R0.8), until output voltage stabilize ,then get the activation force
- (2) R8.0mm Silicon rubber for finger Activation force test
- (3) Test point: 9 points



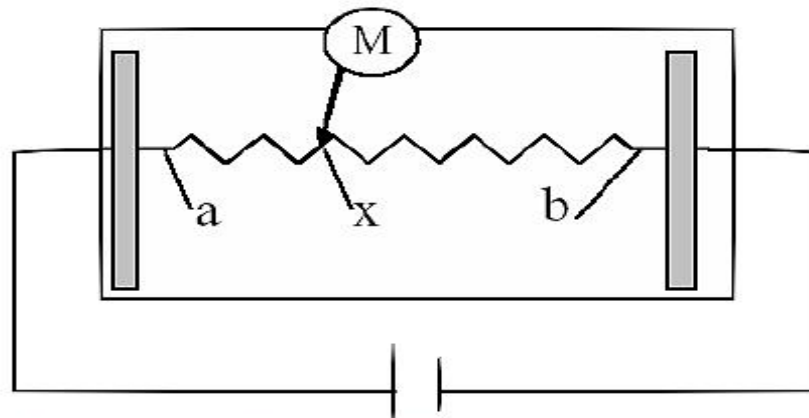
Note 2: Measurement for surface area.

- Material of Pen: Polyacetal resin.
- End shape of Pen: R 0.8 mm (Stylus).
- Sliding 100,000 times straight line on the film with a stylus change every 20,000 times.
- Load force: 250gf.
- Sliding speed: 60mm/sec.

Note 3: Measurement for surface area.

- Material of Pen: Polyacetal resin
- End shape of Pen: 0.8mm (stylus).
- Force: 250gf.
- Speed: 2times/sec.

### 4.3. Linearity Definition



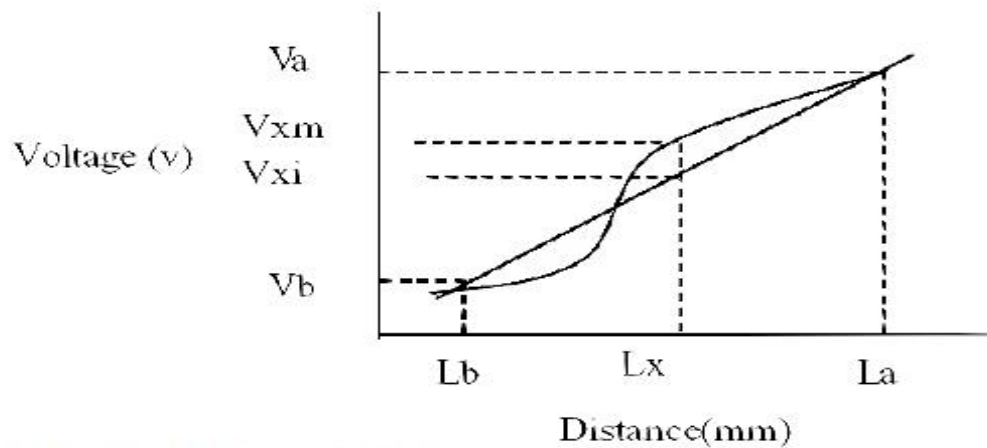
Va: maximum voltage in the active area of touch panel

Vb: minimum voltage in the active area of touch panel

X: random measuring point

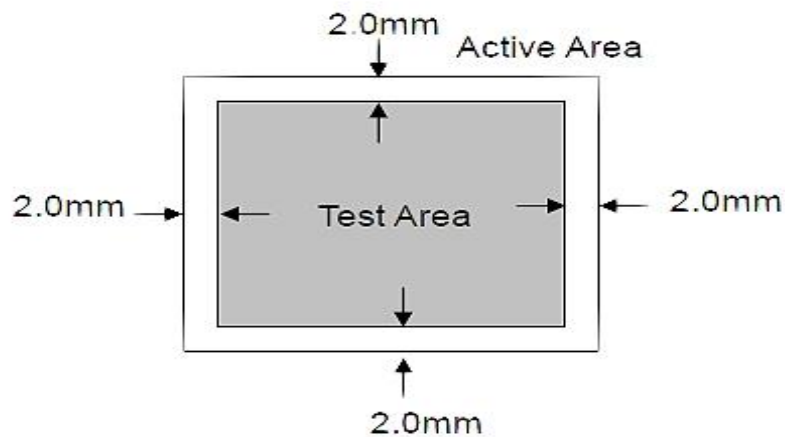
Vxm: actual voltage of Lx point

Vxi: theoretical voltage of Lx point



$$\text{Linearity} = \frac{|Vxi - Vxm|}{(Va - Vb)} * 100\%$$

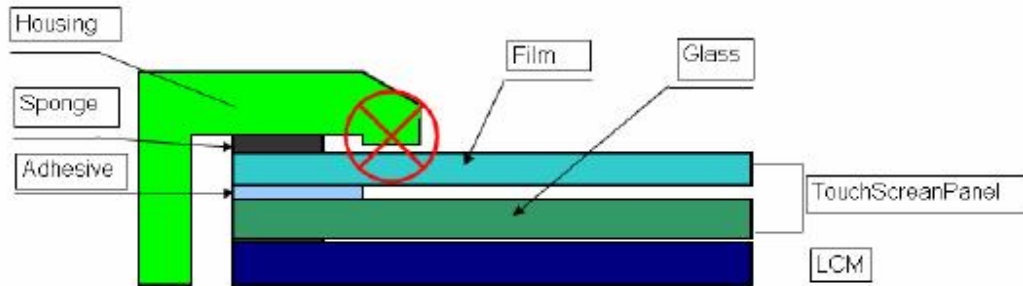
Note: Test area is as follows and operation force is 150gf



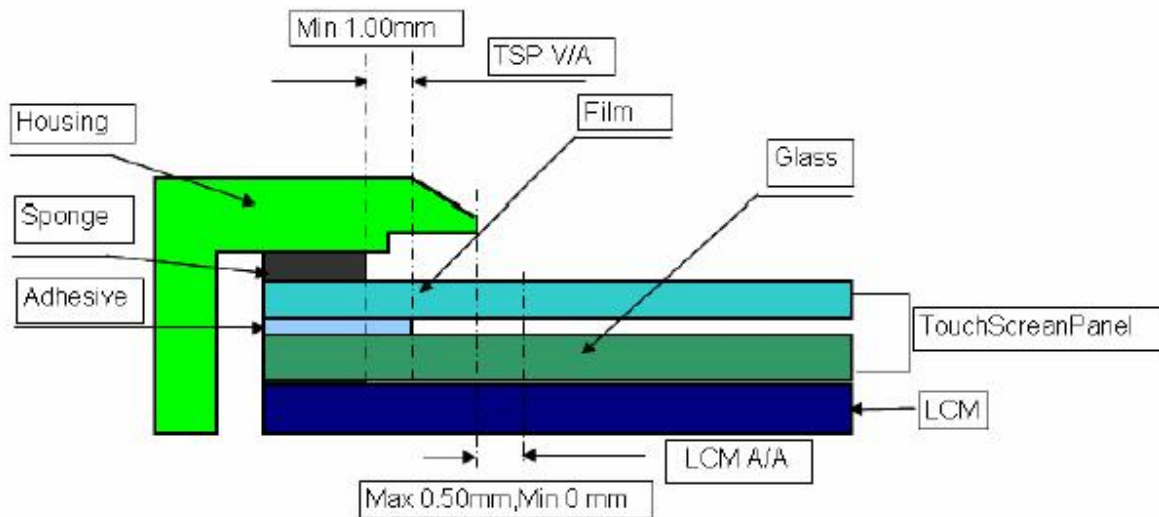
## 4.4. Housing design guide

Housing design follow as below

- 1) Avoid the design that housing overlap and press on the active area of the LCM
- 2) Give enough gap(over 0.5mm at compressed) between the housing and TSP to protect wrong operating.



- 3) Use a buffer material(Gasket) between the TSP and housing to protect damage and wrong operating
- 4) Avoid the design that buffer material overlap and press on the inside of TSP view area



## 5. Optical Specifications

| Item                     | Symbol     | Condition                       | Values |      |      | Unit              | Remark                               |
|--------------------------|------------|---------------------------------|--------|------|------|-------------------|--------------------------------------|
|                          |            |                                 | Min.   | Typ. | Max. |                   |                                      |
| Viewing angle<br>(CR≥10) | $\theta_L$ | $\Phi=180^\circ$<br>(9 o'clock) | 60     | 70   | -    | degree            | Note 1<br>Note 7                     |
|                          | $\theta_R$ | $\Phi=0^\circ$<br>(3 o'clock)   | 60     | 70   | -    |                   |                                      |
|                          | $\theta_T$ | $\Phi=90^\circ$<br>(12 o'clock) | 40     | 50   | -    |                   |                                      |
|                          | $\theta_B$ | $\Phi=270^\circ$<br>(6 o'clock) | 60     | 70   | -    |                   |                                      |
| Response time            | $T_{ON}$   | Normal<br>$\theta=\Phi=0^\circ$ | -      | 10   | 20   | msec              | Note 3                               |
|                          | $T_{OFF}$  |                                 | -      | 15   | 30   | msec              | Note 3                               |
| Contrast ratio           | CR         |                                 | 400    | 500  | -    | -                 | Note 4                               |
| Color chromaticity       | $W_X$      |                                 | 0.26   | 0.31 | 0.36 | -                 | Note 2<br>Note 5<br>Note 6<br>Note 7 |
|                          | $W_Y$      |                                 | 0.28   | 0.33 | 0.38 | -                 |                                      |
| Luminance                | L          |                                 | 230    | 280  | -    | cd/m <sup>2</sup> | Note 6                               |
| Luminance uniformity     | $Y_U$      |                                 | 70     | 75   | -    | %                 | Note 6<br>Note 8                     |

Test Conditions:;

1.  $V_{CC}=3.3V$ ,  $V_{LED}=5.0V$ , the ambient temperature is  $25^\circ C$ .
2. The test systems refer to Note 2.



Note 1: Definition of viewing angle range

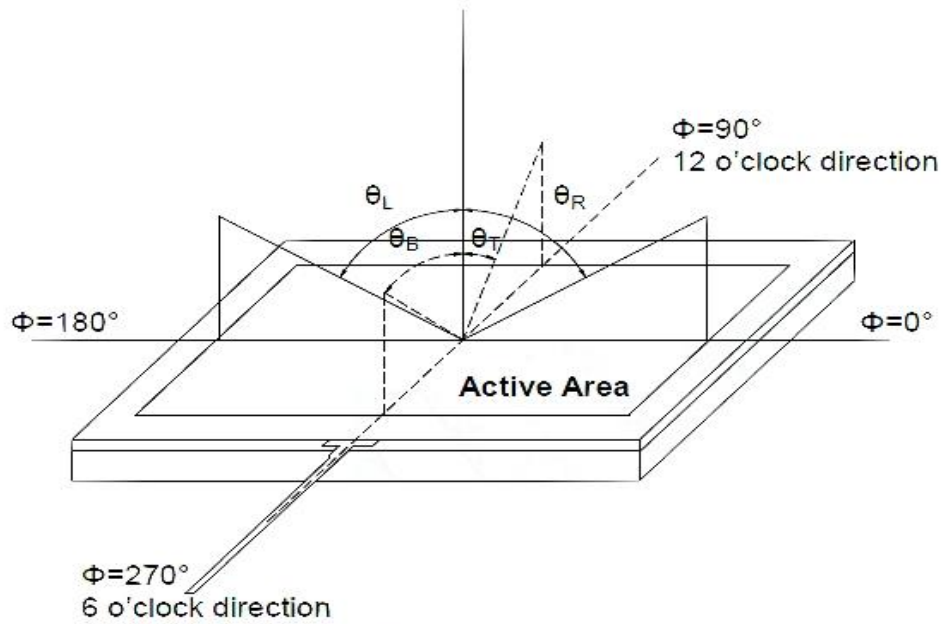


Fig. 4-1 Definition of viewing angle

Note 2: Definition of optical measurement system.

The optical characteristics should be measured in dark room. After 30 minutes operation, the optical properties are measured at the center point of the LCD screen. (Response time is measured by Photo detector TOPCON BM-7, other items are measured by BM-5A/Field of view:  $1^\circ$  /Height: 500mm.)

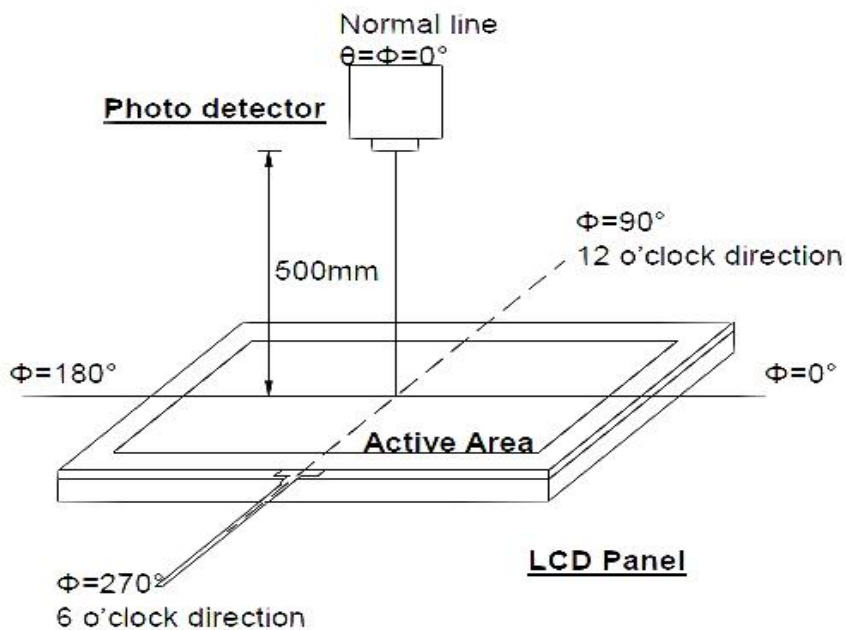


Fig. 4-2 Optical measurement system setup

Note 3: Definition of Response time

The response time is defined as the LCD optical switching time interval between "White" state and "Black" state. Rise time ( $T_{ON}$ ) is the time between photo detector output intensity changed from 90% to 10%. And fall time ( $T_{OFF}$ ) is the time between photo detector output intensity changed from 10% to 90%.

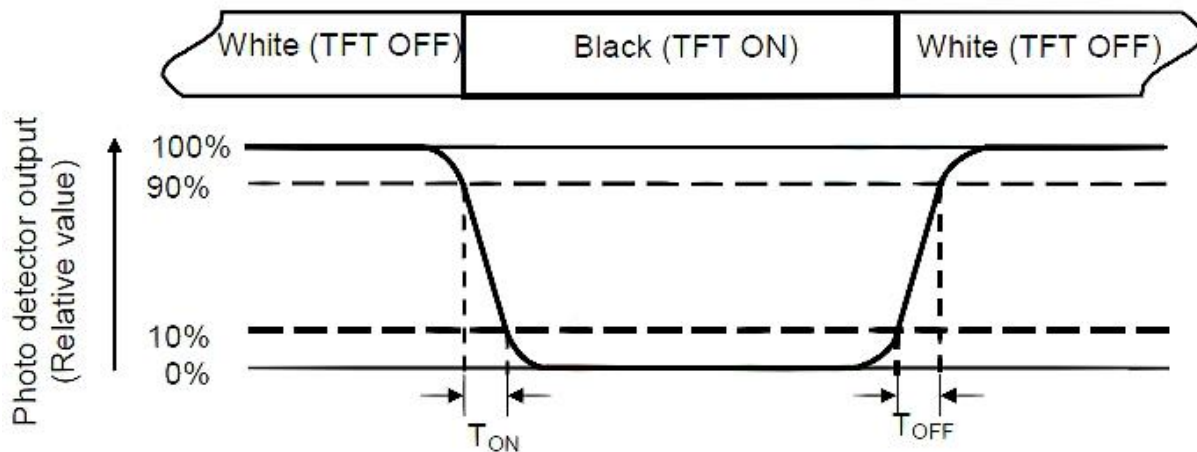


Fig. 4-3 Definition of response time

Note 4: Definition of contrast ratio

$$\text{Contrast ratio (CR)} = \frac{\text{Luminance measured when LCD is on the "White" state}}{\text{Luminance measured when LCD is on the "Black" state}}$$

Note 5: Definition of color chromaticity (CIE1931)

Color coordinates measured at center point of LCD.

Note 6: All input terminals LCD panel must be ground while measuring the center area of the panel. The LED driving condition is  $V_{LED} = 5.0 \text{ V}$ .

Note 7: The values shall be measured without Touch Screen Panel.



Note 8: Definition of Luminance Uniformity

Active area is divided into 9 measuring areas (Refer to Fig. 4-4 ).Every measuring point is placed at the center of each measuring area.

$$\text{Luminance Uniformity (Yu)} = \frac{B_{\min}}{B_{\max}}$$

L-----Active area length      W----- Active area width

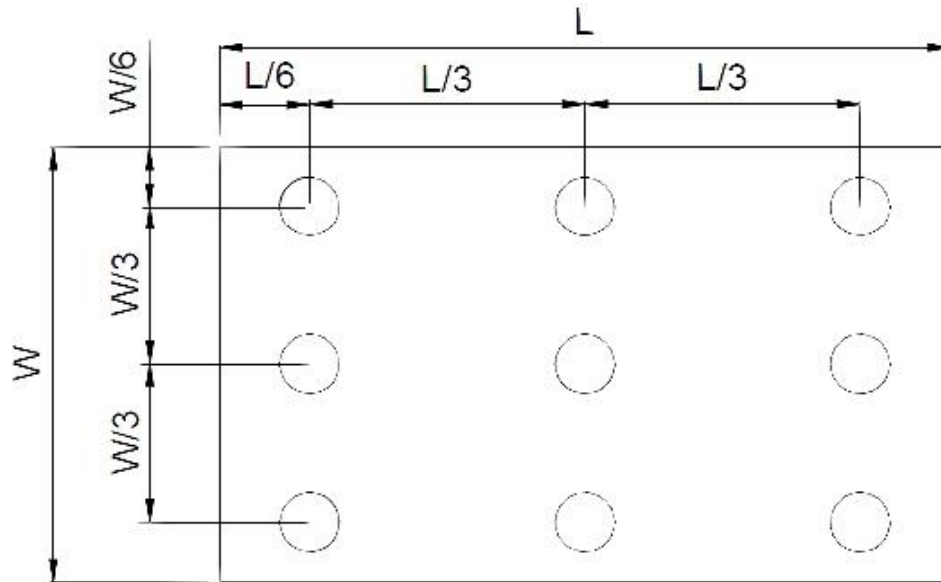


Fig. 4-4 Definition of measuring points

$B_{\max}$ : The measured maximum luminance of all measurement position.

$B_{\min}$ : The measured minimum luminance of all measurement position.

## 6. Reliability Test

(Note3)

| Item                                     | Test Conditions                                                                                                                             | Remark   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|
| High Temperature Storage                 | Ta=80℃ 240 hrs                                                                                                                              | Note 1,4 |
| Low Temperature Storage                  | Ta=-30℃ 240 hrs                                                                                                                             | Note 1,4 |
| High Temperature Operation               | Ts=70℃ 240 hrs                                                                                                                              | Note 2,4 |
| Low Temperature Operation                | Ta=-20℃ 240 hrs                                                                                                                             | Note 1,4 |
| Operate at High Temperature and Humidity | +40℃ , 90%RH 240 hrs                                                                                                                        | Note 4   |
| Thermal Shock                            | -30℃/30 min ~ + 80℃/30 min for a total 100 cycles, Start with cold temperature and end with high temperature                                | Note 4   |
| Vibration Test                           | Frequency range:10~55Hz<br>Stroke:1.5mm<br>Sweep:10Hz~55Hz~10Hz<br>2 hours for each direction of X. Y. Z.<br>(6 hours for total)            |          |
| Mechanical Shock                         | 100G 6ms,±X, ±Y, ±Z 3 times for each direction                                                                                              |          |
| Package Vibration Test                   | Random Vibration :<br>0.015G*G/Hz from 5-200HZ,<br>-6dB/Octave from 200-500HZ<br>2 hours for each direction of X. Y. Z. (6 hours for total) |          |
| Package Drop Test                        | Height:60 cm<br>1 corner, 3 edges, 6 surfaces                                                                                               |          |
| Electro Static Discharge                 | ± 2KV, Human Body Mode, 100pF/1500Ω                                                                                                         |          |

Note 1: Ta is the ambient temperature of samples.

Note 2: Ts is the temperature of panel's surface.

Note 3: In the standard condition, there shall be no practical problem that may affect the display function. After the reliability test, the product only guarantees operation, but doesn't guarantee all the cosmetic specification.

Note 4: Before cosmetic and function tests the product must have enough recovery time, at least 2 hours at room temperature.

Note 5: Before function test, the product must have enough recovery time, at least 24 hours at room temperature.

## 7.General Precautions

### 7.1.Safety

Liquid crystal is poisonous. Do not put it in your mouth. If liquid crystal touches your skin or clothes, wash it off immediately by using soap and water.

### 7.2.Handling

1. The LCD panel is plate glass. Do not subject the panel to mechanical shock or to excessive force on its surface.
2. The polarizer attached to the display is easily damaged. Please handle it carefully to avoid scratch or other damages.
3. To avoid contamination on the display surface, do not touch the module surface with bare hands.
4. Keep a space so that the LCD panels do not touch other components.
5. Put cover board such as acrylic board on the surface of LCD panel to protect panel from damages.
6. Transparent electrodes may be disconnected if you use the LCD panel under environmental conditions where the condensation of dew occurs.
7. Do not leave module in direct sunlight to avoid malfunction of the ICs.

### 7.3.Static Electricity

1. Be sure to ground module before turning on power or operating module.
2. Do not apply voltage which exceeds the absolute maximum rating value.

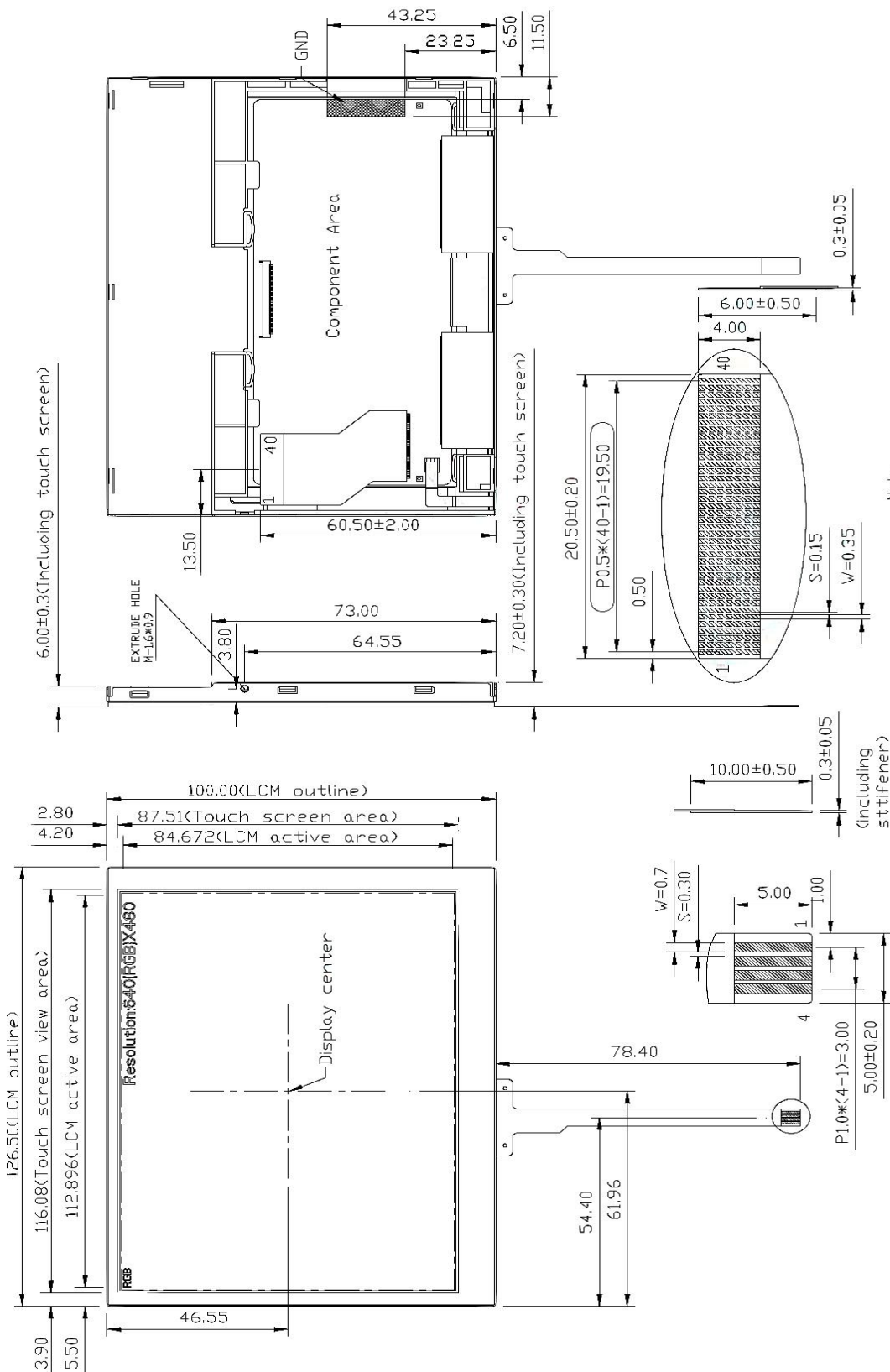
### 7.4.Storage

1. Store the module in a dark room where must keep at +25 $\pm$ 10 and 65%RH or less. °C
2. Do not store the module in surroundings containing organic solvent or corrosive gas.
3. Store the module in an anti-electrostatic container or bag.

### 7.5.Cleaning

1. Do not wipe the polarizer with dry cloth. It might cause scratch.
2. Only use a soft cloth with IPA to wipe the polarizer, other chemicals might permanent damage to the polarizer.

8.Mechanical Drawing



## 9.Package Drawing

### 9.1.Packaging Material Table

| NO | ITEM             | Model<br>(Material) | Dimensions<br>(mm) | Unit<br>Weight | Quantity | Remark |
|----|------------------|---------------------|--------------------|----------------|----------|--------|
| 1  | LCD Module       | SFD-056CT           | 126.5 × 100 × 7.2  | 0.128          | 60pcs    |        |
| 2  | Partition        | B Corrugated Paper  | 105 × 349          | 0.020          | 8pcs     |        |
| 3  | Corrugated Board | B Corrugated Paper  | 510x320            | 0.144          | 2pcs     |        |
| 4  | Partition Paper  | BC Corrugated Paper | 512x226x349        | 1.170          | 1set     |        |
| 5  | Dust-Proof Bag   | PE                  | 700x530            | 0.060          | 1pc      |        |
| 6  | A/S Bag          | PE                  | 170x110x0.2        | 0.002          | 60pcs    |        |
| 7  | Carton           | Corrugated paper    | 530x355x255        | 1.100          | 1pc      |        |
| 8  | Total Weight     | 10.578kg±5%         |                    |                |          |        |

### 9.2.Packaging Quantity

Total LCM quantity in Carton: no. of Partition 4 Rows x quantity per Row 15= 60

### 9.3. Packaging Drawing

