

SPECIFICATION FOR LCD MODULE

MODULE NO: YB-TG800320S01A-N-A0

Doc.Version:00

| Customer Appro | oval: | | |
|----------------|----------------------|---------------|---------------|
| □ Accept | | | □ Reject |
| VEEDO | NAME | CICNATURE | DATE |
| YEEBO | NAME | SIGNATURE | DATE |
| Prepare | Electronic Engineer | 位张琛 | 2020/1/10 |
| Check | Mechanical Engineer | 起建强 | 2020/1/10 |
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| Approval | | 和大多 | 2020/1/10 |
| _ | L FOR SPECIFICATIONS | | |
| | L POR SI ECHTCATIONS | AND SAIVII LE | WIMRD005-02-D |

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1. Revision History

| Sample Version | DOC. Version | DATE | | DESCRIPTION | CHANGED BY |
|-------------------|-----------------|------------|-----------|-------------|---------------|
| A0 | 00 | 2020-01-10 | Spec Only | First issue | W.J.C/Z.J.Q |
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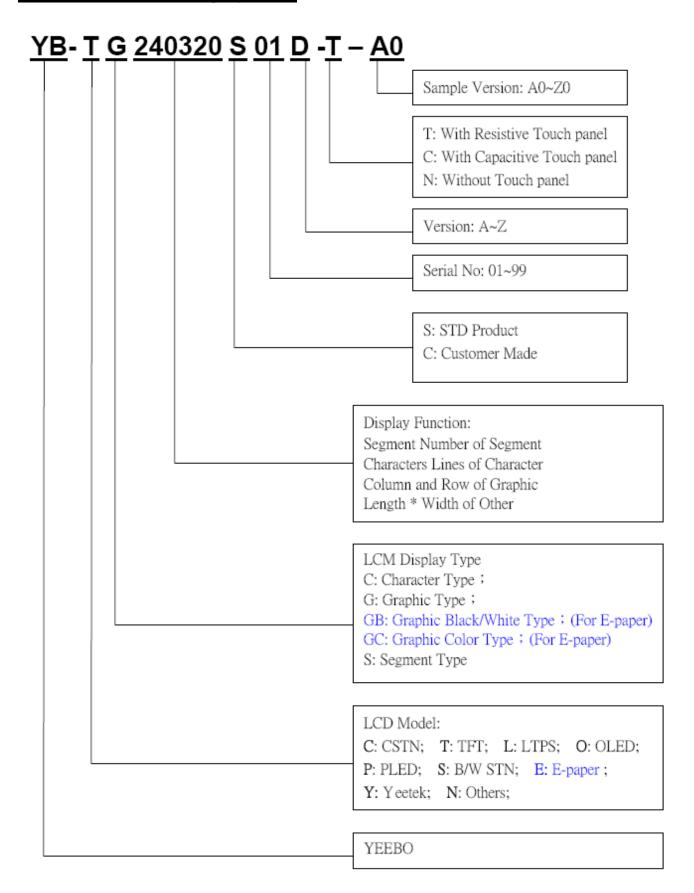


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3. Module Numbering System:





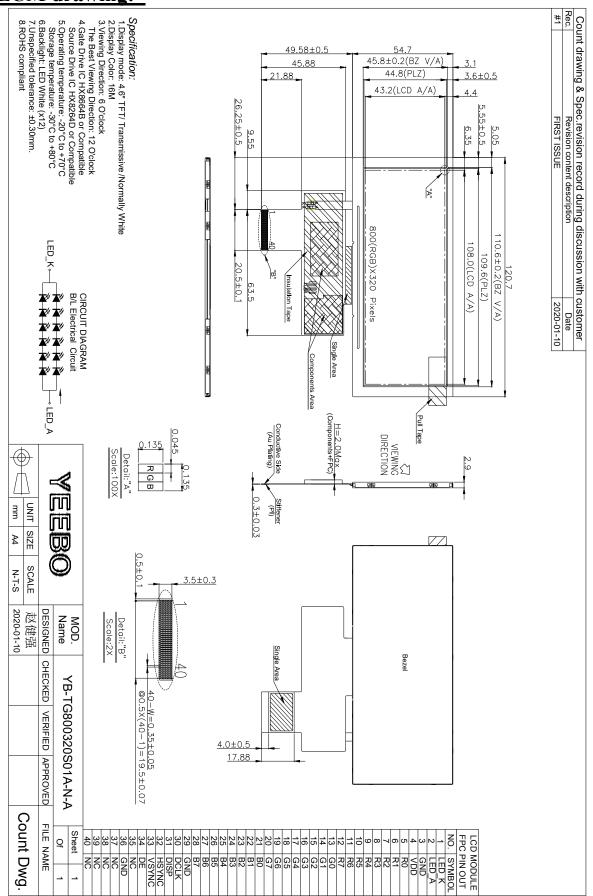
4. General Specification:

| ITEM | CONTENTS | | | |
|---------------------------------------|----------------------------------|--|--|--|
| Module Size | 120.7(W) * 54.7(H) * 2.9(T) mm | | | |
| Module Size(With FPC) | 120.7(W) *104.28 (H) * 2.9(T) mm | | | |
| Display Size | 4.6 inch | | | |
| Display Format | 800(RGB)* 320 WVGA | | | |
| Active Area | 108.0(W) * 43.2(H) mm | | | |
| LCD Type | Active matrix TFT/ Transmissive | | | |
| Input Data | 24 bit RGB interface | | | |
| Viewing Direction (Gray inversion) | 6 O'clock | | | |
| The Best Viewing Direction | 12 O'clock | | | |
| Source Drive IC | HX8264D or Compatible | | | |
| Gate Drive IC | HX8664B or Compatible | | | |
| Weight | TBD | | | |

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5. LCM drawing:





6. Electrical Characteristics:

6-1 Absolute Maximum Ratings

TFT IC HX8264D+HX8664B

(Ta=25°C)

| Item | Symbol | Min. | Type | Max. | Unit | Remark |
|-----------------------|--------|------|------|-------|---------------|----------------|
| Power Voltage | VDD | -0.5 | - | +3.96 | V | Note1 Note2 |
| Operating Temperature | TOPR | -20 | - | +70 | ${\mathbb C}$ | Note1 Note2 |
| Storage Temperature | TSTR | -30 | 1 | +80 | ${\mathbb C}$ | Note1 Note2 |

Note 1: The driver IC may be permanently damaged if it is used under the condition exceeding the above absolute maximum values. It is also recommended to use the driver IC within the limit of its electric characteristics during normal operation. Exceeding the conditions may lead to malfunction of it and affect its credibility.

Note 2: The voltage from GND.

6-2 Electrical Characteristics TFT IC HX8264D+HX8664B

(Ta=25°C)

| Item | Symbol | | Rating | Unit | Remark | | |
|-------------------------|--------|----------|-----------|---------|--------|--------------|--|
| ПСШ | Symbol | Min | Тур | Max | Omi | Kemark | |
| Power Voltage Logic | VDD | 3.0 | 3.3 | 3.6 | V | Note 1 | |
| `Input voltage L level | VIL | GND | - | 0.3*VDD | V | VDD=3.0 | |
| Input voltage H level | VIH | 0.7* VDD | D - VDD V | | V | ~3.6V | |
| LCD Drive Power current | ILCD | - | TBD | - | mA | VDD= 3.3V | |

Note1:

Vcom must be adjusted to optimize display quality: Cross-talk, Contrast Ratio and etc.

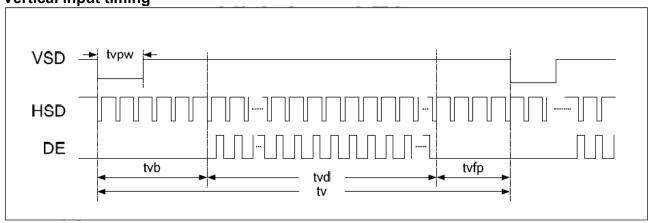
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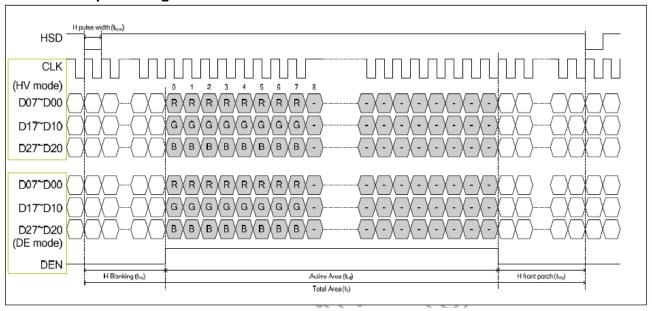
6-3 Timing Characteristics

6-3-1 TFT IC HX8264D+HX8664B Data Input Format

Vertical input timing



Horizontal input timing





6-3-2 TFT IC HX8264D+HX8664B Timing Conditions

Resolution: 800x480

Horizontal timing

| Parameter | Symbol | | Unit | | | |
|--------------------------|----------|------|------|------|-------|--|
| 1 didilietei | Syllibol | Min. | Тур. | Max. | Oilit | |
| Horizontal Display Area | thd | | 800 | | DCLK | |
| DCLK frequency | fclk | - | 30 | 50 | MHz | |
| One Horizontal Line | th | 889 | 928 | 1143 | DCLK | |
| HS pulse width | thpw | 1 | 48 | 255 | DCLK | |
| HS Back Porch (Blanking) | thb | | 88 | | DCLK | |
| HS Front Porch | thfp | 1 | 40 | 255 | DCLK | |
| DE mode Blanking | th-thd | 85 | 128 | 512 | DCLK | |

Vertical timing

| Parameter | Symbol | | Unit | | |
|--------------------------|--------|------|------|-----------|----------------|
| Farameter | Symbol | Min. | Тур. | Тур. Мах. | |
| Vertical Display Area | tvd | | 480 | | T _H |
| VS period time | tv | 513 | 525 | 767 | T _H |
| VS pulse width | tvpw | 3 | 3 | 255 | T _H |
| VS Back Porch (Blanking) | tvb | 5// | 32 | | T _H |
| VS Front Porch | tvfp | | 13 | 255 | T _H |
| DE mode Blanking | tv-tvd | 4 | 45 | 255 | T _H |

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7. Optical Characteristics:

| Item | | Crymah al | Conditio | Spe | cification | ons | Unit | Note |
|----------------|-------|-----------|-----------------------------------|-------------------------------------|------------|-----|------|---------|
| Item | | Symbol | ns | Min | Тур | Max | Unit | Note |
| Transmitt | tance | T(%) | - | 4.0 | 4.3 | - | % | - |
| Contrast Ratio | | CR | Θ=0 Normal Viewing angle | 350 | 500 | - | | (1) (2) |
| Response | time | TR+TF | - | - | 25 | - | ms | (1) (3) |
| | Hor | Θх+ | | - 65 - - 65 - - 50 - deg. (1) | 65 | - | | |
| Viewing | Hor. | Θх- | CD > 10 | | (1) | | | |
| angle | Vor | ⊖у+ | UK≦ IU | | (1) | | | |
| | Ver. | Θу- | | - | 60 - | _ | | |

Measuring Condition

1. Measuring surrounding: dark room

2. Ambient temperature: 25±2°C

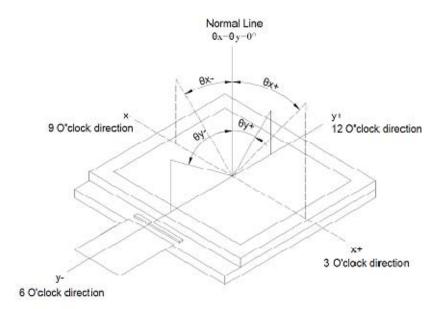
3. 30 min. Warm-up time.

Color of CIE Coordinate:

| Item | | Symbol | Condition | Min. | Тур. | Max. |
|----------------|-------------|--------|---|------|--------|------|
| | D 1 | X | | TBD | 0.5908 | TBD |
| | Red | у | | TBD | 0.3155 | TBD |
| Chromaticity | Green | X | $\theta = \phi = 0^{\circ}$ LED Backlight | TBD | 0.3450 | TBD |
| Coordinates | | у | | TBD | 0.5260 | TBD |
| (Transmissive) | D1 | X | | TBD | 0.1467 | TBD |
| | Blue | у | | TBD | 0.0899 | TBD |
| | XX71. '.4 - | X | | TBD | 0.2839 | TBD |
| | White | y | | TBD | 0.3098 | TBD |



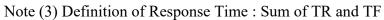
Note (1) Definition of Viewing Angle:

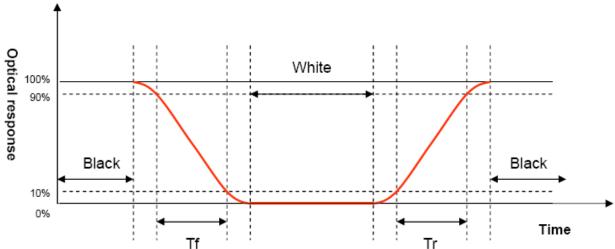


Note (2) Definition of Contrast Ratio(CR): measured at the center point of panel

Contrast ratio (CR)= Photo detector output when LCD is at "White" state

Photo detector output when LCD is at "Black







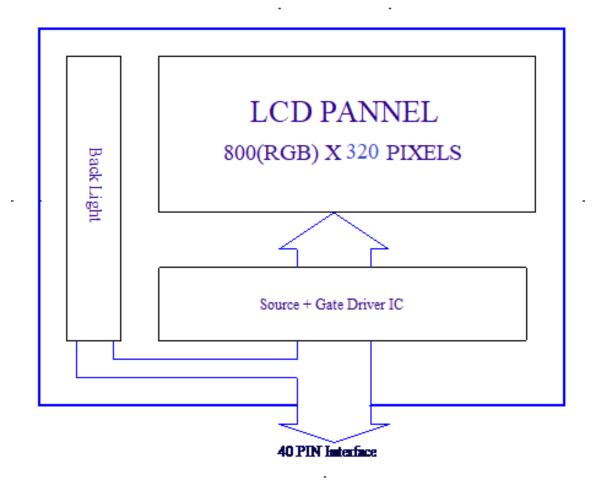
8. Interface Pin Assignment:

| PIN NO. | Symbol | I/O | Description |
|---------|----------------|-----|---|
| 1 | K | Р | Power for LED backlight cathode |
| 2 | А | Р | Power for LED backlight anode |
| 3 | GND | Р | Power ground |
| 4 | VDD | Р | Power voltage |
| 5~12 | R0~R7 | I | Red data |
| 13~20 | G0~G7 | I | Green data |
| 21~28 | B0~B7 | I | Blue data |
| 29 | GND | Р | Power ground |
| 30 | DCLK(Positive) | I | Pixel clock, latch data at CLKIN rising edge. |
| 31 | DISP | I | Display on/off , normally pulled high |
| 32 | HEANC (HED) | | Horizontal sync signal |
| 32 | HSYNC (HSD) | I | If not used, fix this pin at VDD |
| 33 | VSYNC (VSD) | 1 | Vertical sync signal |
| 33 | VSTNC (VSD) | ' | If not used, fix this pin at VDD |
| 34 | DEN (DE) | I | Data enable (active High) |
| 35 | NC | - | No connect |
| 36 | GND | Р | Power ground |
| 37 | NC | ı | No connect |
| 38 | NC | ı | No connect |
| 39 | NC | - | No connect |
| 40 | NC | - | No connect |

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9. Back Diagram:



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10. Backlight:

- 1. Standard Lamp Styles (Edge Lighting Type):
 The LED chips are distributed over the edge light area of the illumination unit, which gives the less power consumption:
- 2. The Main Advantages of the LED Backlight are as following:
 - 2.1 The brightness of the backlight can simply be adjusted. By a resistor or a potentiometer.

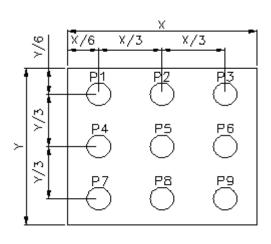
3. Data About LED Backlight:

(Ta=25°C)

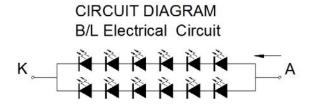
| PARAMETER | Sym. | Min. | Тур. | Max. | Unit | Test Condition | Note |
|----------------------------|-------|-------|------|------|-------------------|-------------------|------|
| Supply Voltage | V | 16.2 | 18.6 | 21.0 | V | If=40mA | |
| Luminous Intensity for LCM | IV | 300 | 350 | - | Cd/m ² | | 2 |
| Uniformity for LCM | - | 70 | ı | - | % | If=40mA | 3 |
| Life Time | 1 | 20000 | ı | 1 | Hr. | | 4 |
| Color | White | | | | | | |

NOTE:

- 1. Backlight Only
- 2. Average Luminous Intensity of P1-P9
- 3. Uniformity = Min/Max * 100%
- 4. LED life time defined as follows: The final brightness is at 50% of original brightness



Internal Circuit Diagram



(Effective spatial Distribution)

Using aperture of 1°, distance 50cm.



11. <u>Standard Specification for Reliability .:</u> 11–1. Standard Specifications for Reliability of LCD Module

| No | Item | Description |
|----|----------------------------|--|
| 01 | High temperature operation | The sample should be allowed to stand at 70°C for 120 hours under driving condition and then returning it to normal temperature condition, and allowing it stand for 2 hours. |
| 02 | Low temperature operation | The sample should be allowed to stand at -20°C for 120 hours under driving condition and then returning it to normal temperature condition, and allowing it stand for 2 hours. |
| 03 | High temperature storage | The sample should be allowed to stand at 80°C for 240 hours under no-load condition, and then returning it to normal temperature condition, and allowing it stand for 2 hours. |
| 04 | Low temperature storage | The sample should be allowed to stand at -30°C for 240 hours under no-load condition, then returning it to normal temperature condition, and allowing it stand for 2 hours. |
| 05 | Moisture storage | The sample should be allowed to stand at 60°C,90%RH MAX for 240 hours under no-load condition, then taking it out and drying it at normal temperature for 2 hours. |
| 06 | Thermal shock storage | The sample should be allowed to stand the following 10 cycles: -30°C for 30 minutes → normal temperature for 5 minutes → +80°C for 30 minutes → normal temperature for 5 minutes, as one cycle. |
| 07 | Packing vibration | Frequency range: $10\text{Hz} \sim 55\text{Hz}$ Amplitude of vibration: 1.5mm Sweep time: 12 min X,Y,Z 2 hours for each direction. |
| 08 | Packing drop test | According to ISTA 1A 2001. |
| 09 | Electrical Static | Air: ± 6 KV 150 pF/ 330Ω 5 times |
| | Discharge | Contact: ±4KV 150pF/330Ω 5 time |

^{*}Sample size for each test item is 3~5pcs

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11 - 2. Testing Conditions and Inspection Criteria

For the final test the testing sample must be stored at room temperature for 24 hours, after the tests listed in Table 12.2, Standard specifications for Reliability have been executed in order to ensure stability.

| No | Item | Test Model | In section Criteria |
|----|------------------------|------------------------|--|
| 01 | Current Consumption | Refer To Specification | The current consumption should conform to the product specification. |
| 02 | Contrast | Refer To Specification | After the tests have been executed, the contrast must be larger than half of its initial value prior to the tests. |
| 03 | Appearance | Visual inspection | Defect free. |

11-3. MTBF

| MTBF | Functions, performance, appearance, etc. shall be free from remarkable deterioration within 50,000 hours under ordinary operating and storage conditions room temperature (25±5°C), normal humidity (50±10% RH), and in area not exposed to direct sun light. |
|------|---|
|------|---|

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12. Specification of Quality Assurance:

12-1. Purpose

This standard for Quality Assurance should affirm the quality of LCD module products to supply to purchaser by YEEBO CORPORATION (Supplier).

12-2. Standard for Quality Test

a. Inspection:

Before delivering, the supplier should take the following tests, and affirm the quality of product.

b. Electro-Optical Characteristics:

According to the individual specification to test the product.

c. Test of Appearance Characteristics:

According to the individual specification to test the product.

d. Test of Reliability Characteristics:

According to the definition of reliability on the specification for testing products.

e. Delivery Test:

Before delivering, the supplier should take the delivery test.

- (i) Test method: According to ISO2859-1. General Inspection Level II take a single time.
- (ii) The defects classify of AQL as following:

Major defect: AQL = 0.65Minor defect: AQL = 2.5Total defects: AQL = 2.5

12-3. Non- conforming Analysis & Deal With Manners

- a. Non- conforming Analysis:
- (i) Purchaser should supply the detail data of non- conforming sample and the non-conforming.
- (ii) After accepting the detail data from purchaser, the analysis of non- conforming should be finished in two weeks.
- (iii) If supplier can not finish analysis on time, must announce purchaser before 3 days.
- b. Disposition of non- conforming:
 - (i) If find any product defect of supplier during assembly time, supplier must change the good product for every defect after recognition.
 - (ii) Both supplier and customer should analyze the reason and discuss the disposition of non-conforming when the reason of nonconforming is not sure.

12-4. Agreement items

Both sides should discuss together when the following problems happen.

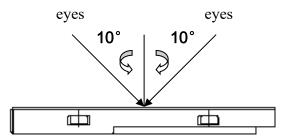
- a. There is any problem of standard of quality assurance, and both sides should think that must be modified.
- b. There is any argument item which does not record in the standard of quality assurance.
- c. Any other special problem.

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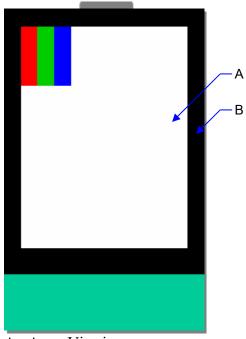


12-5. Standard of The Product Appearance Test

- a. Manner of appearance test:
- (i) The test must be under $20W \times 2$ or 40W fluorescent light, and the distance of view must be at 30 ± 5 cm.
 - (ii) When test the model of transmissive product must add the reflective plate.
 - (iii)The test direction is base on around 10° of vertical line.
 - (iiii)Temperature: 25±5°C Humidity: 60±10%RH



(iv) Definition of area:



- A. Area: Viewing area.
- B. Area: Out of viewing area.

(Outside viewing area)

- b. Basic principle:
 - (i) It will accord to the AQL when the standard can not be described.
 - (ii) The sample of the lowest acceptable quality level must be discussed by both supplier and customer when any dispute happened.
 - (iii) Must add new item on time when it is necessary.
 - c. Standard of inspection: (Unit: mm)



12-6. Inspection specification

Defect out of viewing area can be neglected.

| NO | Item | Criterion A | | | | AQL |
|----|---|---|---------------------|---|---|-----|
| 01 | Electrical Testing | 1.1 Missing vertical, horizontal segment, segment contrast defect. 1.2 Missing character, dot or icon. 1.3 Display malfunction. 1.4 No function or no display. 1.5 Current consumption exceeds product specifications. 1.6 LCD viewing angle defect. 1.7 Mixed product types. 1.8 Flicker | | | 0.65 | |
| 02 | Black or White spots or Bright spots or Color spots on LCD (Display only) | 2.1 Dot dimension as below Φ = (X+Y) / 2 X Y Y Y 2.2 Not visible through 5% | 0 0 6 ND filt | Size(mm) Φ≦0.20 0.20< Φ≦0.40 0.40< Φ | Acceptable Q'ty Accept no dense 5 0 | 2.5 |
| 03 | LCD and Touch Panel black spots, white spots, contamination (non – display) | 3.2 Line type: (As follows | o (| Size(mm) $\Phi \le 0.20$ 0.20< $\Phi \le 0.40$ 0.40< Φ 0 more than two | Acceptable Q'ty Accept no dense 5 0 70 spots within 3mm. Acceptable Q'ty Accept no dense 4 Rejection Rejection | 2.5 |
| | | * Densely s | paced: N | | wo lines within 3mm. | |



| NO | Item | Criterion | | | AQL |
|----|----------------------|--|---|--|-----|
| 04 | Polarizer bubbles | If bubbles are visible, judge using black spot specifications, not easy to find, must check in specify direction | Size Φ(mm) $\Phi \le 0.20$ $0.20 < \Phi \le 0.50$ $0.50 < \Phi \le 1.00$ $1.00 < \Phi$ Total Q'ty | Acceptable Q'ty Accept no dense 4 3 0 4 | 2.5 |
| 05 | Scratches | Follow NO.3 -2 Line Type. | | | |
| 06 | Mura | Not visible through 5% ND fil | ter in 50% gray. | | 2.5 |
| 07 | Chipped glass | L: Electrode pad length 7.1 General glass chip: 7.1.1 Chip on panel surface an z: Chip thickness y: Chip v Z≦1/2t Not ov 1/2t< z≦2t Not ex mm o If there are 2 or more chips, 7.1.2 Corner crack: z: Chip thickness y: Chip v Not ov Z≦1/2t Not ov | width x: Chip area x is the total length of x is the x | de length s: length 1/8a velocities o length 1/8a o Unit: o length 1/8a o Unit: o length 1/8a o Unit: | 2.5 |

| NO | Item | Criterion | | | |
|----|-------------|--|-----|--|--|
| | | Symbols: x: Chip length y: Chip width z: Chip thickness k: Seal width t: Glass thickness a: LCD side length L: Electrode pad length 8.1 Protrusion over terminal: 8.1.1 Chip on electrode pad: | AQL | | |
| | | y: Chip width x: Chip length z: Chip thickness | | | |
| | | $y \le 0.5 \text{mm}$ $x \le 1/8 \text{a}$ $0 < z \le t$ 8.1.2 Non-conductive portion: | | | |
| 08 | Glass crack | y z z z z z z z z z z z z z z z z z z z | 2.5 | | |
| | | y: Chip width x: Chip length z: Chip thickness | | | |
| | | y≦L x≦1/8a 0< z≦t | | | |
| | | If there chipped area touches the ITO terminal, over 2/3 of the ITO must remain and be inspected according to electrode terminal specifications. If the product will be heat sealed by the customer, the alignment mark must mot be damaged. Substrate protuberance and internal crack | | | |
| | | y: width x: length | | | |
| | | y≦1/3L X≦a | | | |
| | | | | | |



| NO | Item | Criterion | AQL |
|----|-----------------------|--|----------------------------------|
| 09 | Cracked glass | The LCD with extensive crack is not acceptable. | |
| 10 | Backlight elements | 10.1 Illumination source flickers when lit. 10.2 Spots or scratches that appear when lit must be judged. Using LCD spot, lines and contamination standards. 10.3 Backlight doesn't light or color is wrong. | |
| 11 | Bezel | Bezel must comply with product specifications. | 2.5 |
| 12 | PCB、COB | 12.1 COB seal may not have pinholes larger than 0.2mm or contamination. 12.2 COB seal surface may not have pinholes through to the IC. 12.3 The height of the COB should not exceed the height indicated in the assembly diagram. 12.4 There may not be more than 2mm of sealant outside the seal area on PCB. And there should be no more than three places. 12.5 Parts on PCB must be the same as on the production characteristic chart, There should be no wrong parts, missing parts or excess parts. 12.6 The jumper on the PCB should conform to the product characteristic chart. | 2.5 2.5 2.5 2.5 0.65 |
| 13 | FPC | 13.1 FPC terminal damage ≤ 1/2 FPC terminal width and can not affect the function, we judge accept. 13.2 FPC alignment hole damage ≤ 1/2 alignment area and can not affect the function, we judge accept. | 2.5 |
| 14 | Soldering | 14.1 No cold solder joints, missing solder connections, oxidation or icicle.14.2 No short circuits in components on PCB or FPC. | 2.5 0.65 |



| NO | Item | Criterion | | | | QL |
|----|---------------------------------|---|---|-----------------------|---|-----|
| | | Symbols: x: Chip length k: Seal width length L: Electrode pad length 15.1 General glass cl 15.1.1 Chip on panel | y: Chip width z: t: Touch Panel Total t | | | |
| | | z: Chip thickness Z≦t | y: Chip width ≤1/2 k and not over viewing area | x: Chip length x≦1/8a | | |
| 15 | Touch Panel Chipped glass | ⊙ Unit: mm ⊙ If there are 2 or m 15.1.2 Corner crack: | ore chips, x is the total l | ength of each chip | 2 | 2.5 |
| | | z: Chip thickness | y: Chip width | x: Chip length | | |
| | | z≦t | ≦1/2 k and not over viewing area | x≦1/8a | | |
| | | ⊙ Unit: mm⊙ If there are 2 or m | ore chips, x is the total l | ength of each chip | | |



| NO | Item | Criterion | AQL | |
|----|-----------------------------|--|-----|--|
| 16 | Touch Panel(Fish eye) | SIZE(mm) Acceptable Q'ty L≤0.7 Accept no dense L>0.7mm 0 | 2.5 | |
| 17 | Touch Panel Newton ring | Newton ring dimension ≤ 1/2 touch panel area and not affect font and line distortion(≤2.5%), it is acceptable. | 2.5 | |
| 18 | Touch Panel Linearity | Less than 2.5% is acceptable. | | |
| 19 | LCD Ripple | Touch the touch panel, can not see the LCD ripple. Pen: R 1.0mm silicon rubber. Operation Force: 80g | | |
| 20 | General appearance | 20.1 Pin type must match type in specification sheet. 20.2 LCD pin loose or missing pins. 20.3 Product packaging must the same as specified on packaging specification sheet. 20.4 Product dimension and structure must conform to product specification sheet. | | |



13. Handling Precaution:

13-1 Handling of LCM

- Don't give external shock.
- Don't apply excessive force on the surface.
- Liquid in LCD is hazardous substance. Must not lick and swallow. when the liquid is attach to your hand, skin, cloth etc. Wash it out thoroughly and immediately.
- Don't operate it above the absolute maximum rating.
- Don't disassemble the LCM.
- The operators should be grounded whenever he/she comes into contact with the module. Never touch any of the conductive parts such as the LSI pads, the copper leads on the PCB and the interface terminals with any parts of the human body.
- The modules should be kept in antistatic bags or other containers resistant to static for storage.
- The module is coated with a film to protect the display surface. Be care when peeling off this protective film since static electricity may be generated.

13-2 Storage

- Store in an ambient temperature of 25±10°C, and in a relative humidity of 50±10%RH. Don't expose to sunlight or fluorescent light.
- Storage in a clean environment, free from dust, active gas, and solvent.
- Store in anti-static electricity container.
- Store without any physical load.

13-3 Soldering

- Use only soldering irons with proper grounding and no leakage.
- Iron: No higher than $310\pm10^{\circ}$ C and less than 3 sec during Hand soldering.
- Rewiring: no more than 2 times.



14. Warranty

This product has been manufactured to specifications as a part for use in your company's general electronic products. It is guaranteed to perform according to delivery specifications. For any other use apart from general electronic equipment, we will not take responsibility if the product is used in medical devices, nuclear power control equipment, aerospace equipment, fire and security systems, or any other applications in which there is a direct risk to human life and where extremely high levels of reliability are required. If the product is to be used in any of the above applications, we will need to enter into a separate product liability agreement.

- 1. We cannot accept responsibility for any defect arise after additional process of the product (including disassembly and reassembly), after product delivery.
- 2. We cannot accept responsibility for any defect, which may arise after the application of strong external force to the product.
- 3. We cannot accept responsibility for any defect, which may arise due to the application of static electricity after the product has passed your company's acceptance inspection procedures.
- 4. We can not accept responsibility for industrial property, which may arise through the use of your product, with exception to those issues relating directly to the structure or method of manufacturing of our product within one year from YEEBO shipment.
- 5. For Heatseal Product which required to heatseal by customer side, parts must be used within three months after delivery from factory.
- 6. For TAB Product which required to solder by customer side, parts must be used within three months after delivery from factory.
- 7. The liability of YB is limited to repair or replacement on the terms set forth below. YB will not be responsible for any subsequent or consequential events or injury or damage to any personnel or user including third party personnel and/or user. Unless otherwise agreed in writing between YB and the customer, YB will only replace or repair any of its LCD which is found defective electrically or visually when inspected in accordance with YB GENERAL LCD INSPECTION STANDARD.

15. Guarantee:

Our products meet requirements of the environment. YEEBO ROHS requirement is based on European Union Directive 2011/65/EU (ROHS) Requirements and Update.

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