

CODICO

YEEBO GROUP

SPECIFICATION FOR LCD MODULE

MODULE NO: YB-TG240240S02A-N-A0

Doc.Version:00

Customer Approval:	
□ Accept	□ Reject
•	į.

YEEBO	NAME	SIGNATURE	DATE
Prepare	Electronic Engineer	冯锦文	2021-06-23
Check	Mechanical Engineer	周健文	2021-06-23
Verify		邓若 刚	2021-06-23
Approval		A PAS	2021-06-23

■ APPROVAL FOR SPECIFICATIONS ONLY

□ APPROVAL FOR SPECIFICATIONS AND SAMPLE



CODICO GmbH

Zwingenstraße 6-8, 2380 Perchtoldsdorf, Austria Telefon: +43 1 86 305-0, Fax: +43 1 86 305-5000 e-mail: office@codico.com, www.codico.com FN 436940i, Landesgericht Wr. Neustadt

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WIMRD005-02-D

Add: 7/F.,On Dak Industrial Building,2-6 Wah Sing Street, Kwai Chung,H.K.

Tel: +852-2945-6800; +852-2945-6885

Fax: +852-2481-0019





1. Revision History

Sample Version	DOC. Version	DATE		DESCRIPTION	CHANGED BY
A0	00	2021-06-22	Spec Only	First issue	F.J.W/Z.J.W





2. Table of Contents:

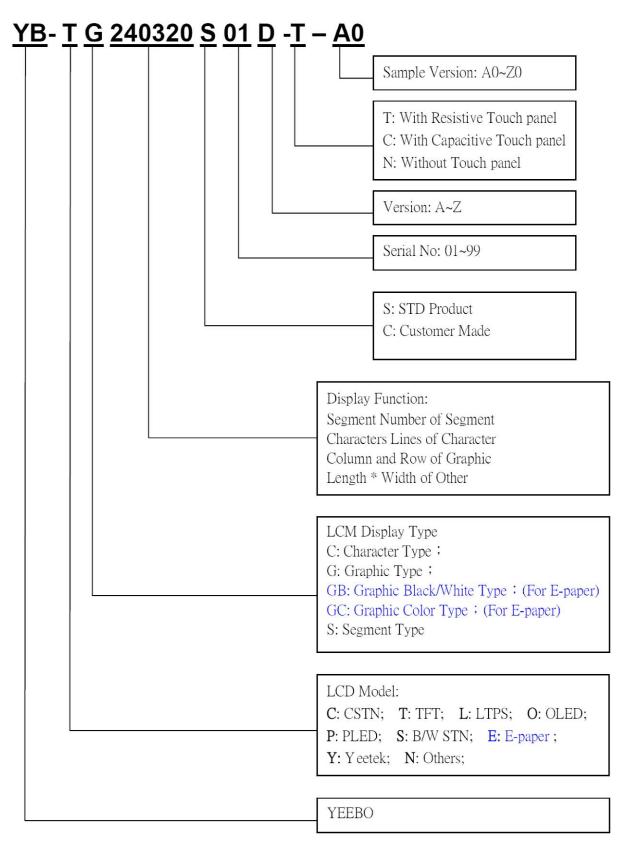
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3.Module Numbering System:

(Example)







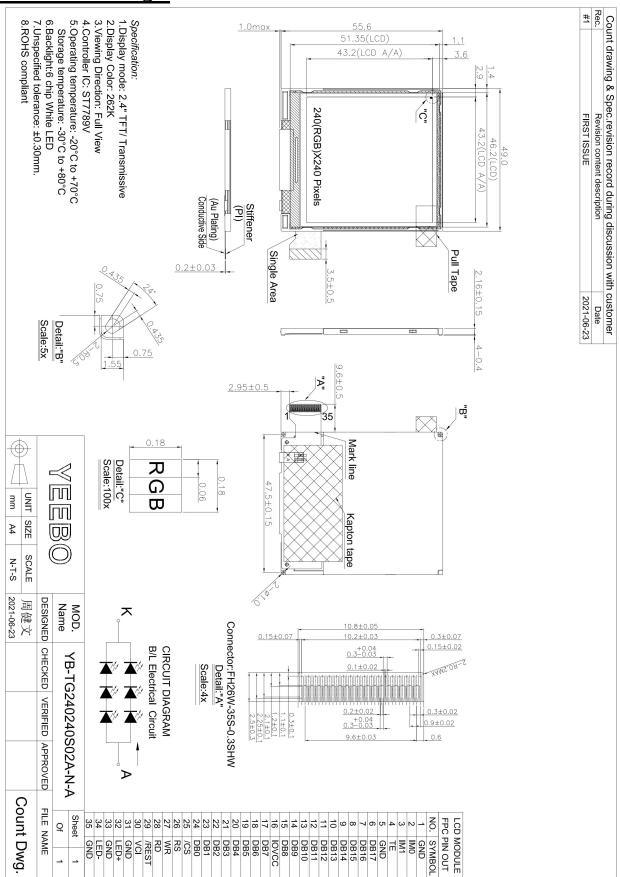
4. General Specification:

ITEM	CONTENTS				
Module Size	49.0 (W) * 55.6 (H) * 2.16 (T) mm				
Module Size(With FPC)	55.6 (W) * 56.6 (H) * 2.16 (T) mm				
Display Size(Diagonal)	2.4 inch				
Display Format	240(RGB)* 240 Pixels				
Active Area	43.2(W) * 43.2 (H) mm				
Pixel Pitch	0.18* 0.18 mm				
LCD Type	TFT (262K)/ Transmissive / NB				
View Direction:	Free				
Controller IC	ST7789V-G4				
Weight	TBD				





5. LCM drawing:







6. Electrical Characteristics

6-1 Absolute Maximum Ratings

(Ta=25°C VSS=0V)

Item	Symbol	Min.	Type	Max.	Unit	Remark
Input Voltage	V_{DD}	-0.3	-	+4.6	Volt	Note1
Supply Voltage(Logic)	IOV_{CC}	-0.3	-	+4.6	V	Note1
Logic Input Voltage Range	VIN	-0.3	-	IOV _{CC} +0.5	V	Note1
Operating Temperature	Topr	-20	-	+70	$^{\circ}\!\mathbb{C}$	-
Storage Temperature	Tstg	-30	-	+80	$^{\circ}\!\mathbb{C}$	-

Note1: Absolute maximum rating is the limit value beyond which the IC maybe broken. They do not assure operations.

6-2 Operating Conditions

 $(Ta=25^{\circ}C)$

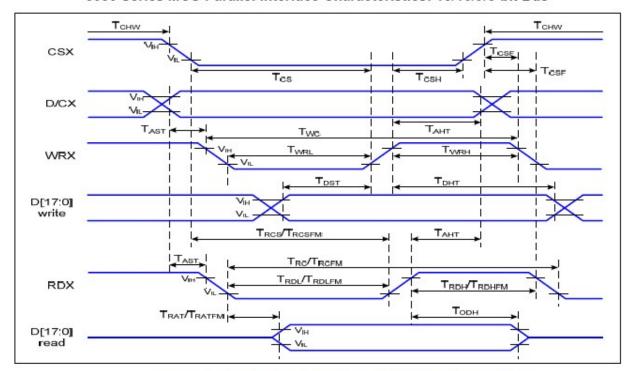
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply voltage	V_{CI}	-	2.6	2.8	3.3	V
Supply voltage for I/O	IOV_{CC}	-	1.65	1.8	3.3	V
Input Voltage	$V_{ m IH}$	-	0.7* IOV _{CC}	-	IOV_{CC}	V
	V_{IL}	-	GND	-	$0.3* \mathrm{IOV_{CC}}$	V
Power Supply Current for LCM	Icc	$V_{CI}=2.8V$	-	TBD	-	mA





6-3 Timing Characteristics

8080 Series MCU Parallel Interface Characteristics: 18/16/9/8-bit Bus



Parallel Interface Timing Characteristics (8080-Series MCU Interface)

VDDI=1.65 to 3.3V, VDD=2.4 to 3.3V, AGND=DGND=0V, Ta= -30 to 70 ℃

Signal	Symbol	Parameter	Min	Max	Unit	Description	
D/CX	T _{AST}	Address setup time	0		ns		
DICX	T _{AHT}	T _{AHT} Address hold time (Write/Read)			ns	-	
	T _{CHW}	Chip select "H" pulse width	0		ns		
	T _{cs}	Chip select setup time (Write)	15		ns		
CSX	T _{RCS}	Chip select setup time (Read ID)	45		ns		
CSX	T _{RCSFM}	Chip select setup time (Read FM)	355		ns	-	
	T _{CSF}	Chip select wait time (Write/Read)	10		ns		
	Тсѕн	Chip select hold time	10		ns		
	T _{wc}	Write cycle	66		ns	2	
WRX	T _{WRH}	Control pulse "H" duration	15		ns		
	T _{WRL}	Control pulse "L" duration	15		ns		
	T _{RC}	Read cycle (ID)	160		ns		
RDX (ID)	T _{RDH}	Control pulse "H" duration (ID)	90		ns	When read ID data	
T _{RDL}		Control pulse "L" duration (ID)	45		ns		
T _{RCFM}		Read cycle (FM)	450		ns	W/h	
RDX	T _{RDHFM}	Control pulse "H" duration (FM)			ns	When read from	
(FM)	T _{RDLFM} Control pulse "L" duration (FM)		355		ns	frame memory	
D[17:0]	T _{DST}	Data setup time	10		ns	For CL=30pF	

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T _t	DHT	Data hold time	10		ns
Tı	RAT	Read access time (ID)		40	ns
T _R	ATFM	Read access time (FM)		340	ns
To	DDH	Output disable time	20	80	ns

7. Optical Characteristics:

Iten		Cymbal	Conditions	Spe	cificatio	ons	Unit	Note	
Iten	[]	Symbol	Conditions	Min	Тур	Max	Unit	Note	
Transmit (Without		T (%)	1	-	3.9	-	-	-	
Contrast Ratio		CR	Θ=0 Normal Viewing angle	600	800	-	-	(1) (2)	
Response	e time	TR+TF	ı	-	30	-	ms	(1)(3)	
	win Hor. Ox	Пом	Θx+		-	80	-		
Viewin		Θх-	$CD \geq 10$	-	80	-	deg.		
g angle		Θу+	CR ≥ 10	-	80	-		-	
	vel.	Θу-		-	80	-			

Measuring Condition

Measuring surrounding: dark room
 Ambient temperature: 25±2°C

3. 30 min. Warm-up time.

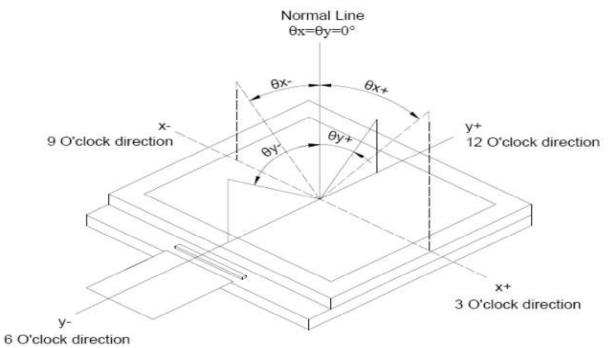
Color of CIE Coordinate:

Item		Symbol	Condition	Min.	Тур.	Max.
	D - 1	X		TBD	0.641	TBD
	Red	у		TBD	0.337	TBD
	Green	X		TBD	0.274	TBD
Chromaticity Coordinates		Green	у	$\theta = \phi = 0$ °	TBD	0.560
(Transmissive)	Blue	X	LED Backlight	TBD	0.141	TBD
(Transmissive)		у		TBD	0.113	TBD
	****	x		TBD	0.308	TBD
	White	у		TBD	0.330	TBD





Note (1) Definition of Viewing Angle:

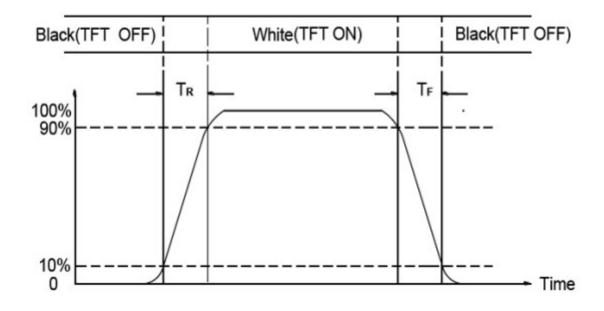


Note (2) Definition of Contrast Ratio (CR): measured at the center point of panel

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

Photo detector output when LCD is at "Black

Note (3) Definition of Response Time: Sum of TR and TF







8. Interface Pin Assignment:

<u>8. Int</u>	<u>erface Pin</u>	Assignment:					
No.	Symbol	Function					
1	GND	Ground					
		Select MPU Interface mode					
2	IM0	IM1 IM0 MCU-Interface Mode DB Pin in use					
		0 0 80 MCU 16-bit bus D[17:10],D[8:1]					
		0 1 80 MCU 8-bit bus D[17:10]					
3	IM1	1 0 80 MCU 18-bit bus D[17:0]					
		1 1 80 MCU 9-bit bus interface II D[17:9]					
4	TE	Tearing effect signal is used to MCU to frame memory writing					
5	GND	Ground					
6	DB17	Data bus					
7	DB16	Data bus					
8	DB15	Data bus					
9	DB14	Data bus					
10	DB13	Data bus					
11	DB12	Data bus					
12	DB11	Data bus					
13	DB10	Data bus					
14	DB9	Data bus					
15	DB8	Data bus					
16	IOVCC	Digital power supply					
17	DB7	Data bus					
18	DB6	Data bus					
19	DB5	Data bus					
20	DB4	Data bus					
21	DB3	Data bus					
22	DB2	Data bus					
23	DB1	Data bus					
24	DB0	Data bus					
25	/CS	Chip select signal active low					





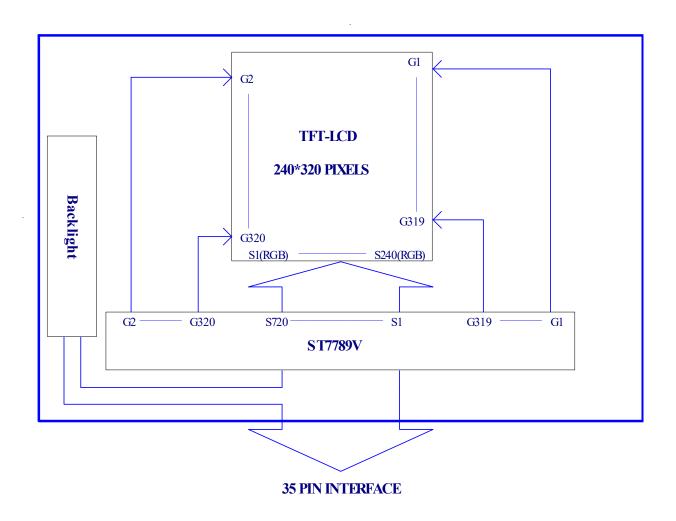
26	RS	Display data/command selection pin in parallel interface. Display data(RS=1) / Command selection(RS=0)	
27	WR	Write enable in MCU parallel interface	
28	RD	Read enable in MCU parallel interface	
29	/RESET	Reset signal active low	
30	VCI	Analog power supply	
31	GND	Ground	
32	LED+	LED power supply(+)	
33	GND	Ground	
34	LED-	LED power supply(-)	
35	GND	Ground	

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9. Block Diagram:







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:

(T ₀ −25°C	`
(1a-23))

(14 2 0 0)		
PARAMETER	Sym.	Min.	Тур.	Max.	Unit	Test Condition	Note
Supply Current	I	-	40	-	mA	V=9.6V	
Supply Voltage	V	8.5	9.6	10.2	V	If=40mA	
Luminous Intensity for LCM	IV	500	600	-	Cd/m ²		2
Uniformity for LCM	-	70	-	_	%	If=40mA	3
Life Time	-	20000	-	-	Hr.		4
Color	White						

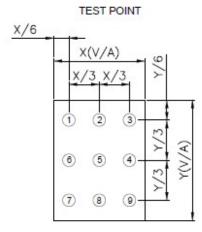
NOTE:

- 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

Measured Method: (X*Y: Light Area)

Internal Circuit Diagram

CIRCUIT DIAGRAM
B/L Electrical Circuit



40mA(Reference Vf=9.6V)

(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: 10Hz ~ 55Hz Amplitude of vibration: 1.5mm X,Y,Z 2 hours for each direction. Sweep time: 12 min
08	Packing drop test	According to ISTA 1A 2001.
09	Electrical Static	Air: $\pm 4KV \ 150 pF/330\Omega \ 5$ times
	Discharge	Contact: ±2KV 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 12.1, 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

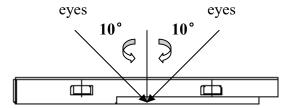
Both sides should discuss together when the following problems happen.

- 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.

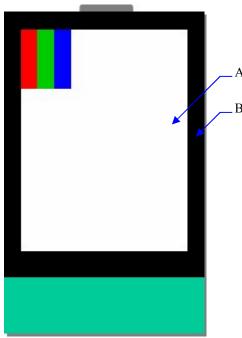




- 12-5. Standard of The Product Appearance Test
 - a. Manner of appearance test:
 - (i) The test must be under $20W \times 2$ or 40W fluorescent light, and the distance of view must be at 30 ± 5 cm.
 - (ii) When test the model of transmissive product must add the reflective plate.
 - (iii)The test direction 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	out of viewing area can		iterion		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 White and black or color spots on display ≤ 0.25mm, no more than Five spots. 2.2 Densely spaced: No more than three spots within 3mm. 2.3 Not visible through 5% ND filter 				2.5
	LCD and Touch Panel black spots,	3.1 Round type: As foll $\Phi = (X+Y)/2$ $X \qquad \qquad$		Size(mm) $\Phi \le 0.10$ $0.10 < \Phi \le 0.20$ $0.20 < \Phi \le 0.25$ $0.25 < \Phi \le 0.30$ $0.30 < \Phi$	Acceptable Q'ty Accept no dense 2 2 1 0 o spots within 3mm.	2.5
03	white spots, contamination (non – display)	3.2 Line type: (As follows)	Length(mm) L≦3.0 L≤2.5	ing) Width(mm) $W \le 0.02$ $0.02 < W \le 0.05$ $0.03 < W \le 0.08$ $0.08 < W$	Acceptable Q'ty Accept no dense	2.5





NO	Item	Criterion			AQL	
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	y	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 3 2 0 3	2.5
05	Scratches	Follow NO.3 -2 Line	Туре.			
06	Mura	Not visible through 5%		50% grav.		2.5
07	Chipped glass	k: Seal width L: Electrode pad lengt 7.1 General glass chip 7.1.1 Chip on panel su z: Chip thickness $Z \le 1/2t$ 1/2t< $z \le 2t$ • Unit: mm • If there are 2 or mo 7.1.2 Corner crack:	y: Chip width Not over vi area Not exceed y: Chip width Not over vi area Not exceed y: Chip width Not over vi area Not over vi area Not exceed	x: Chipewing x state the total length of x: Chipewing x state the total length of x: Chipewing x state x: Chipewing x: C	de length s: $ \begin{array}{c} $	2.5





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3.7.0		ZEEBO GROUP	AQL		
NO	Item				
		Symbols: x: Chip length y: Chip width t: Glass thickness a: LCD side length L: Electrode pad length 8.1 Protrusion over terminal: 8.1.1 Chip on electrode pad:			
		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			
		$y \le L \qquad x \le 1/8a \qquad 0 < z \le t$			
	 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. 8.1.3 Substrate protuberance and internal crack 				
		y: width x: length			
		$y \le 1/3L$ $X \le a$			





NO	Item	Criterion	AQL
09	Cracked glass	The LCD with extensive crack is not acceptable.	2.5
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. 	2.5 2.5 0.65
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. 12.7 PCBA cosmetic control base on latest IPC standard, IPC-A-610, acceptable limit of grade 2. 	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

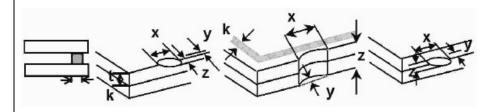
NO	Item	Criterion		
15	Touch Panel Chipped glass	Symbols: x: Chip length k: Seal width length y: Chip width z: Chip thickness t: Touch Panel Total thickness a: LCD side	2.5	

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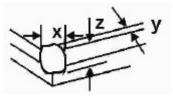
- L: Electrode pad length
- 15.1 General glass chip:
- 15.1.1 Chip on panel surface and crack between panels:



z: Chip thickness	y: Chip width	x: Chip length
Z≦t	$\leq 1/2$ k and not over viewing area	x≤1/8a

- ⊙ Unit: mm
- ⊙ If there are 2 or more chips, x is the total length of each chip

15.1.2 Corner crack:



z: Chip thickness	y: Chip width	x: Chip length
z≦t	$\leq 1/2$ k and not over viewing area	x≤1/8a

- ⊙ Unit: mm
- ⊙ If there are 2 or more chips, x is the total length of each chip

NO	Item	Criterion			AQL
4.6	Touch				2.5
16	Panel(Fish	SIZE(mm)	Acceptable Q'ty		





		EEBO GROUP	
	eye, dent	$\Phi \leq 0.2$ Accept no dense	
	and bubble	$0.2 < D \le 0.4$ 5	
	on film)	$0.4 < D \le 0.5$ 2	
		0.5< D 0	
17	Touch Panel Newton ring	Newton ring dimension $\leq 1/2$ touch panel area and not affect font and line distortion($\leq 2.5\%$), it is acceptable.	2.5
18	Touch Panel Linearity	Less than 2.5% is acceptable.	2.5
19	LCD Ripple	Touch the touch panel, can not see the LCD ripple. Pen: R 1.0mm silicon rubber. Operation Force: 80g	2.5
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. 	0.65 0.65 0.65 0.65





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 $25\pm10^{\circ}$ C, and in a relative humidity of $50\pm10\%$ 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.

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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 **usbear**part 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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