Specification for Approval

Customer:_____

Model Name:

Si	upplier Approv	Customer approval	
R&D Designed	R&D Approved	QC Approved	
Peter	Peng Jun		



Revision Record

REV NO.	REV DATE	CONTENTS	Note
А	2021-10-25	NEW ISSUE	
В	2022-02-21	CHANGE TO BRIGHTNESS 400NIT(TYP)	
С	2023-11-06	CHANGE TO NEW LCD	



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1. Scope

This specification defines general provisions as well as inspection standards for TFT module supplied by AMSON electronics.

If the event of unforeseen problem or unspecified items may occur, naturally shall negotiate and agree to solution

2. General Information

Тітем	STANDARD VALUES	UNITS		
LCD type	9.0"TFT			
Dot arrangement	800×3(RGB)×480	dots		
Color filter array	RGB vertical stripe			
Display mode	TN / Transmissive / Normally white	-		
Viewing Direction	All			
Module size	210.9(W)×126.5(H)×5.3(T)	mm		
Active area	198.0(W)×111.7(H)	mm		
Dot pitch	0.0825(W)×0.2327(H)	mm		
Interface	24-bit Parallel RGB Interface			
Operating temperature	-20 ~ +70	°C		
Storage temperature	-30 ~ +80			
Back Light	30 White LED			

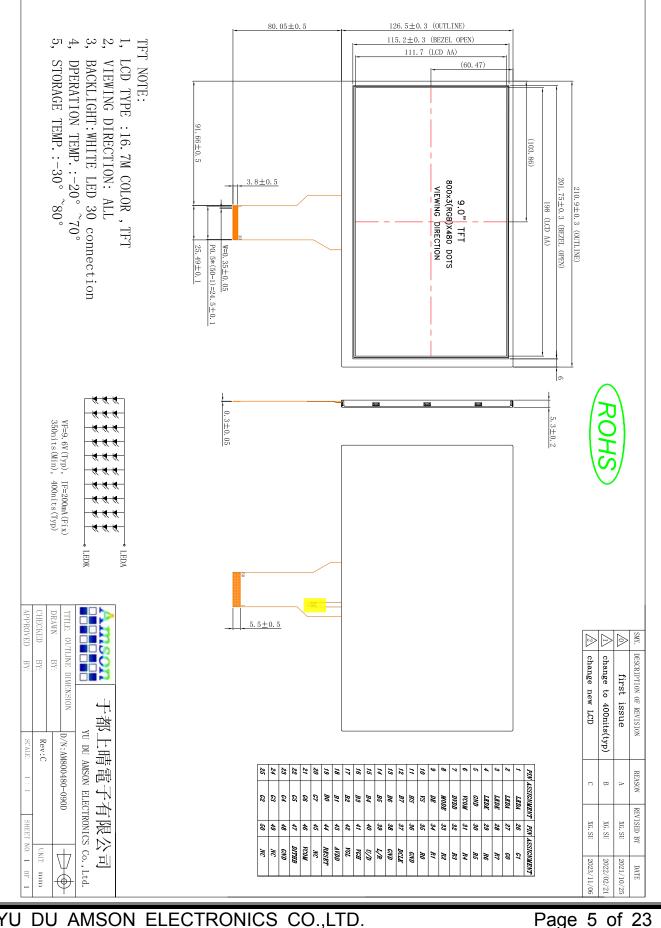


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3. External Dimensions



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4. Interface Description

B 111							
PIN	PIN NAME	DESCRIPTION					
1	LEDA	LED backlight (Anode).					
2	LEDA						
3	LEDK	LED backlight (Cathode).					
4	LEDK						
5	GND	Power ground					
6	VCOM	Not connect.					
7	DVDD	Digital Power.					
8	MODE	DE/SYNC mode select. Normally pull high. H: DE mode. L: HSD/VSD mode.					
9	DE	Data Enable signal.					
10	VS	Vertical sync input. Negative polarity.					
11	HS	Horizontal sync input. Negative polarity.					
12	B7	Blue Data Input (MSB).					
13	B6	Blue Data Input.					
14	B5	Blue Data Input.					
15	B4	Blue Data Input.					
16	B3	Blue Data Input.					
17	B2	Blue Data Input.					
18	B1	Blue Data Input.					
19	B0	Blue Data Input (LSB).					
20	G7	Green Data Input (MSB).					
21	G6	Green Data Input.					
22	G5	Green Data Input.					
23	G4	Green Data Input.					
24	G3	Green Data Input.					
25	G2	Green Data Input.					
26	G1	Green Data Input.					
27	G0	Green Data Input (LSB).					
28	R7	Red Data Input (MSB).					
29	R6	Red Data Input.					
30	R5	Red Data Input.					
31	R4	Red Data Input.					
32	R3	Red Data Input.					
33	R2	Red Data Input.					
34	R1	Red Data Input.					
35	R0	Red Data Input (LSB).					
36	GND	Power ground.					
37	DCLK	Clock input.					
38	GND	Power ground.					



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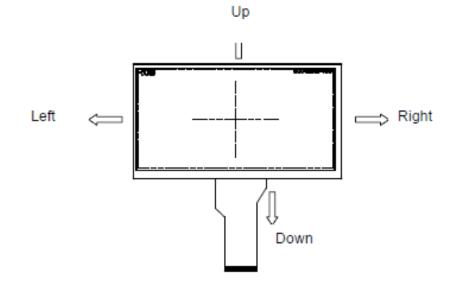
39	L/R	Left or Right Display Control.
40	U/D	Up / Down Display Control.
41	VGH	Positive Power for TFT.
42	VGL	Negative Power for TFT.
43	AVDD	Analog Power.
44	RESET	Global reset pin. Active low to enter reset state. Suggest to connecting with an RC reset circuit for stability. Normally pull high.(R=10K Ω , C=1 μ F)
45	NC.	Not connect.
46	VCOM	Not connect.
47	DITHB	Dithering function enable control. (Normally pull high) DITHB="L", to enable internal dithering function. DITHB="H", to disable internal dithering function.
48	GND	Power ground.
49	NC.	Not connect.
50	NC.	Not connect.

[Note1] L/R: left or right setting

U/D : up or down setting

L/R	U/D	Data shifting					
DVDD	GND	Left \rightarrow Right, Up \rightarrow Down(default)					
GND	GND	$Right \to Left, \ Up \to Down$					
DVDD	DVDD	Left \rightarrow Right, Down \rightarrow Up					
GND	DVDD	$Right \to Left, \ Down \to Up$					

Definition of scanning direction:





5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Digital Supply Voltage	DVDD	-0.3	5.0	V
Analog Supply Voltage	AVDD	6.5	13.5	V
Gate On Voltage	VGH	-0.3	40.0	V
Gate Off Voltage	VGL	-20.0	0.3	V
Gate On- Gate Off Voltage	VGH-VGL	-	40.0	V
Operating Temperature	Тор	-20	70	°C
Storage Temperature	Tst	-30	80	°C
Storage Humidity	HD	20	90	%RH



6. DC Characteristics

ltem	Symbol	Min.	Тур.	Max.	Unit	Remark		
Digital Supply Voltage	DVDD	3.0	3.3	3.6	V	Note 2		
Analog Supply Voltage	AVDD	10.2	10.4	10.6	V	-		
Gate On Voltage	VGH	16.3	17.0	17.7	V	-		
Gate Off Voltage	VGL	-5.7	-5.0	-4.3	V	-		
Common Voltage	VCOM	3.2	4.27	5.2	V	Note 4		
	VIH	0.7DVDD	-	DVDD	V	Note 2		
Logic Input Voltage	VIL	GND	_	0.3DVDD	V	Note 3		

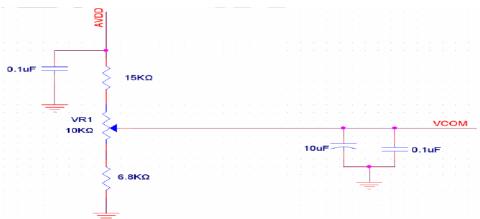
Note 1: Be sure to apply DVDD and VGL to the LCD first, and then apply VGH.

Note 2: DVDD setting should match the signals output voltage (refer to Note 3) of customer's system board.

Note 3: DCLK,HS,VS,RESET,U/D, L/R,DE,R0~R7,G0~G7,B0~B7,MODE,DITHB.

Note 4: Typical VCOM is only a reference value, it must be optimized according to each

LCM. Be sure to use VR.



Current Consumption

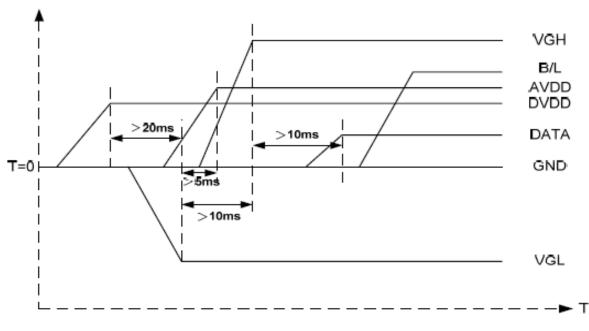
Item	Symbol		Value	S	Unit	Remark	
nem	Symbol	Min.	Тур.	Max.		Renark	
High Supply for Current	IGH	-	0.3	1.0	mA	VGH=17.0V	
Low Supply for Current	IGL	-	0.3	1.0	mA	VGL=-5.0V	
Logic Supply for Current	IDVDD	-	5.5	10	mA	DVDD=3.3V	
Analog Supply for Current	IAVDD	-	32	50	mA	AVDD=10.4V	



7. Timing Characteristics

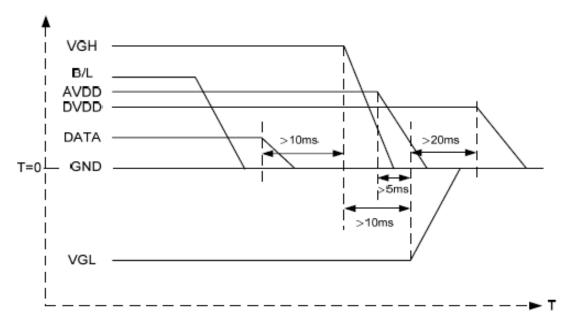
7.1 Power sequence

a. Power on:



 $DV_{DD} \rightarrow VGL \rightarrow VGH \rightarrow Data \rightarrow B/L$

b. Power off:



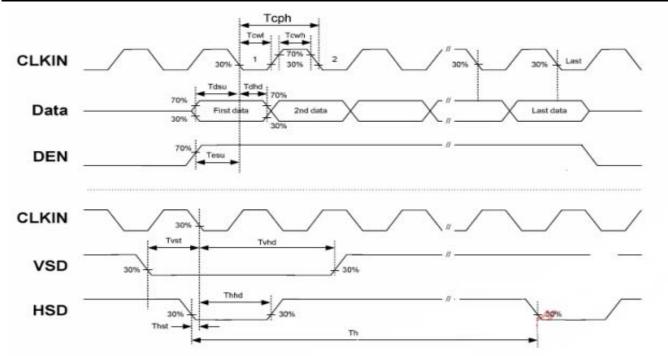
$B/L \rightarrow Data \rightarrow VGH \rightarrow VGL \rightarrow DV_{DD}$

Note: Data include R0~R7, B0~B7, GO~G7, U/D, L/R, DCLK, HS,VS,DE.



7.2 Timing characteristics 7.2.1 AC Electrical Characteristics

ltem	Symbol		Values		Unit	Remark
item	Symbol	Min.	Тур.	Max.	Onit	Kennark
HS setup time	Thst	8	-	-	ns	
HS hold time	Thhd	8	-	-	ns	
VS setup time	Tvst	8	-	-	ns	
VS hold time	Tvhd	8	ŀ	-	ns	
Data setup time	Tdsu	8	-	-	ns	
Data hole time	Tdhd	8	-	-	ns	
DE setup time	Tesu	8	-	-	ns	
DE hole time	Tehd	8	-	-	ns	
DV _{DD} Power On Slew rate	TPOR	-	-	20	ms	From 0 to 90% DV _{DD}
RESET pulse width	T _{Rst}	1	-	-	ms	
DCLK cycle time	Tcoh	20	-	-	ns	
DCLK pulse duty	Towh	40	50	60	%	



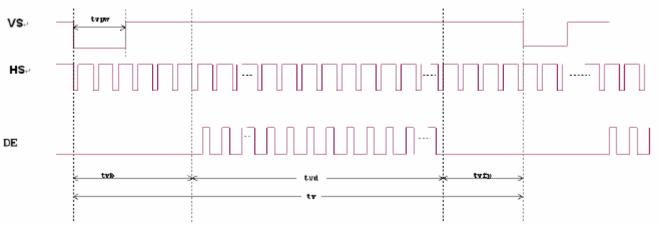
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7.2.2 Data Input Format



Horizontal input timing diagram



Vertical input timing diagram



7.2.3 Timing

Item	Symbol		Values		Unit	Remark
item	Symbol	Min.	Тур.	Max.	Unit	Kemark
Horizontal Display Area	thd	-	800	-	DCLK	
DCLK Frequency	fclk	26.4	33.3	46.8	MHz	
One Horizontal Line	th	862	1056	1200	DCLK	
HS pulse width	thpw	1	-	40	DCLK	
HS Blanking	thb	46	46	46	DCLK	
HS Front Porch	thfp	16	210	354	DCLK	

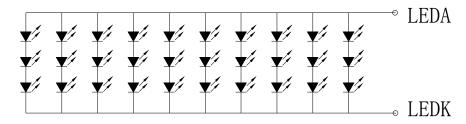
ltem	Symbol	Values			Unit	Remark
nem		Min.	Тур.	Max.	onne	Kennark
Vertical Display Area	tvd	-	480	-	TH	
VS period time	tv	510	525	650	TH	
VS pulse width	tvpw	1	-	20	TH	
VS Blanking	tvb	23	23	23	TH	
VS Front Porch	tvfp	7	22	147	TH	



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8. Backlight Characteristic

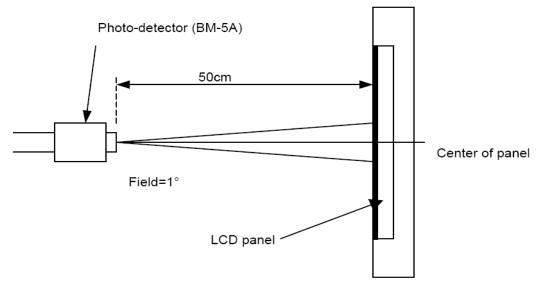


Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	8.0	9.6	10.6	V	lf=200mA
Supply Current	lf	-	200	-	mA	-
Luminous Intensity for LCM	-	350	400	-	cd/m ²	lf=200mA
Uniformity for LCM	-	80	-	-	%	lf=200mA
Life Time	-	20000	-	-	Hr	lf=200mA
Backlight Color	White					

9. Optical Characteristics

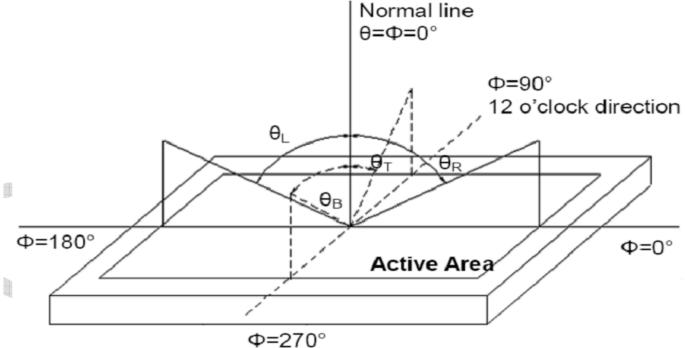
Item	Conditions		Min.	Тур.	Max.	Unit	Note
	Horizontal	θL	70	80	-	dograa	(1),(2),(6)
Viewing Angle		θR	70	80	-		
(CR>10)	Vertical	θт	70	80	-	degree	
	ventical	θв	70	80	-		
Contrast Ratio	Center		400	500	-	-	(1),(3),(6)
Bosponso Timo	Rising		-	10	20	ma	(1) (4) (6)
Response Time	Falling		-	15	30	ms	(1),(4),(6)
	Red x			0.586	Typ. +0.05	-	
	Red y			0.339		-	
	Green x			0.321		-	
CF Color	Green y		Тур.	0.589		-	(1) (6)
Chromaticity (CIE1931)	Blue x		-0.05	0.158		-	(1), (6)
	Blue y			0.125		-	
	White x			0.297		-	
	White y			0.322		-	

Note (1) Measurement Setup: The LCD module should be stabilized at given temp. 25°C for 15 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting backlight for 15 minutes in a windless room.





Note (2) Definition of Viewing Angle



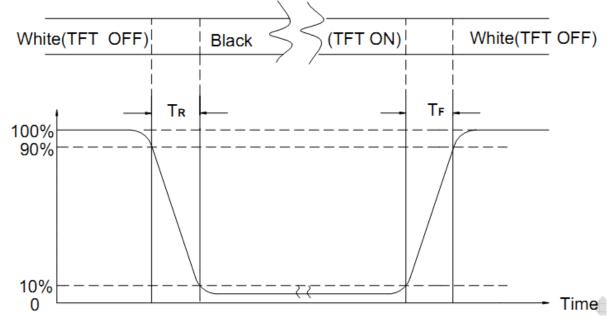
Note (3) Definition of Contrast Ratio (CR)

The contrast ratio can be calculated by the following expression Contrast Patie (CP) = 1.62/1.0

Contrast Ratio (CR) = L63 / L0

L63: Luminance of gray level 63, L0: Luminance of gray level 0

Note (4) Definition of response time



- Note (5) Definition of Transmittance (Module is without signal input) Transmittance = Center Luminance of LCD / Center Luminance of Back Light x 100%
- Note (6) Definition of color chromaticity (CIE1931)

Color coordinates measured at the center point of LCD



10. Reliability Test Conditions and Methods

NO.	TEST ITEMS	TEST CONDITION				
1	High Temperature Storage	Keep in 80°C $\pm 5^{\circ}$ C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.				
2	Low Temperature Storage	Keep in -30°C \pm 5°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.				
3	High Temperature / High Humidity Storage Test	Keep in 50 $^{\circ}$ C / 90% R.H duration for 96 hrs Surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer)				
4	Temperature Cycling Storage Test	$\begin{array}{ccccc} -20^{\circ}C \rightarrow & +25^{\circ}C \rightarrow & 70^{\circ}C \rightarrow & +25^{\circ}C \\ (30 \underline{\text{mins}}) & (5 \underline{\text{mins}}) & (30 \underline{\text{mins}}) & (5 \underline{\text{mins}}) \\ & 10 \text{ Cycle} \\ \end{array}$ Surrounding temperature, then storage at normal condition 4hrs.				
		Air Discharge: Apply 2 KV with 5 times Discharge for each polarity +/-	Contact Discharge: Apply 250 V with 5 times discharge for each polarity +/-			
5	ESD Test	 Temperature ambiance : 15°C~35°C Humidity relative : 30%~60% Energy Storage Capacitance(Cs + Cd) : 150pF±10% Discharge Resistance(Rd) : 330Ω±10% Discharge, mode of operation : Single Discharge (time between successive discharges at least 1 sec) (Tolerance if the output voltage indication : ±5%) 				
6	Vibration Test (Packaged)	 Sine wave 10~55 Hz frequency (1 min/sweep) The amplitude of vibration :1.5 mm Each direction (X、Y、Z) duration for 2 Hrs 				
7	Drop Test (Packaged)	Packing Weight (Kg) 0 ~ 45.4 45.4 ~ 90.8 90.8 ~ 454 Over 454	Drop Height (cm) 122 76 61 46			
		Drop Direction : 1 corner / 3 edges / 6 sides each 1time				

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11. Inspection Standard

11.1. QUALITY :

THE QUALITY OF GOODS SUPPLIED TO PURCHASER SHALL COME UP TO THE FOLLOWING STANDARD. 11.1.1. THE METHOD OF PRESERVING GOODS

AFTER DELIVERY OF GOODS FROM AMSON TO PURCHASER. PURCHASER SHALL CONTROL THE LCM AT -10 $^\circ\!C$ TO 40 $^\circ\!C$,AND IT MIGHT BE DESIRABLE TO KEEP AT THE NORMAL ROOM TEMPERATURE AND HUMIDITY UNTIL INCOMING INSPECTION OR THROWING INTO PROCESS LINE.

11.1.2. INCOMING INSPECTION

(A) THE METHOD OF INSPECTION

IF PURCHASER MAKE AN INCOMING INSPECTION, A SAMPLING PLAN SHALL BE APPLIED ON THE CONDITION THAT QUALITY OF ONE DELIVERY SHALL BE REGARDED AS ONE LOT.

(B) THE STANDARD OF QUALITY

ISO-2859-1 (SAME AS MIL-STD-105E), LEVEL II SINGLE PLAN.

CLASS	AQL(%)
CRITICAL	0.4 %
MAJOR	0.65 %
MINOR	1.5 %
TOTAL	1.5 %

EVERY ITEM SHALL BE INSPECTED ACCORDING TO THE CLASS.

(C) MEASURE

IF AS THE RESULT OF ABOVE RECEIVING INSPECTION, A LOT OUT IS DISCOVERED. PURCHASER SHALL BE INFORM SELLER OF IT WITHIN SEVEN DAYS. BUT FIRST SHIPMENT WITHIN FOURTEEN DAYS.

11.1.3. WARRANTY POLICY

AMSON WILL PROVIDE ONE-YEAR WARRANTY FOR THE PRODUCTS ONLY IF UNDER SPECIFICATION OPERATING CONDITIONS. AMSON WILL REPLACE NEW PRODUCTS FOR THESE DEFECT PRODUCTS WHICH UNDER WARRANTY PERIOD AND BELONG TO THE RESPONSIBILITY OF AMSON.

- 11.2. CHECKING CONDITION
- 11.2.1. CHECKING DIRECTION SHALL BE IN THE 45 DEGREE AREA TO FACE THE SAMPLE.
- 11.2.2. CHECKER SHALL SEE OVER 300±25 mm. WITH BARE EYES FAR FROM SAMPLE AND USING 2 PCS. OF 20W FLUORESCENT LAMP.



11.3. INSPECTION PLAN :

CLASS	ITEM	JUDGEMENT	CLASS
PACKING &	1. OUTSIDE AND INSIDE PACKAGE	"MODEL NO." , "LOT NO." AND "QUANTITY" SHOULD INDICATE ON THE PACKAGE.	Minor
INDICATE	2. MODEL MIXED AND QUANTITY	OTHER MODEL MIXEDREJECTED	Critical
	3. PRODUCT INDICATION	"MODEL NO." SHOULD INDICATE ON THE PRODUCT	Major
ASSEMBLY	4. DIMENSION, LCD GLASS SCRATCH AND SCRIBE DEFECT.	ACCORDING TO SPECIFICATION OR DRAWING.	Major
	5. VIEWING AREA	POLARIZER EDGE OR LCD'S SEALING LINE IS VISABLE IN THE VIEWING AREA REJECTED	Minor
APPEARANCE	6. BLEMISH V BLACK SPOT V WHITE SPOT IN THE LCD AND LCD GLASS CRACKS	ACCORDING TO STANDARD OF VISUAL INSPECTION(INSIDE VIEWING AREA)	Minor
	7. BLEMISH • BLACK SPOT WHITE SPOT AND SCRATCH ON THE POLARIZER	ACCORDING TO STANDARD OF VISUAL INSPECTION(INSIDE VIEWING AREA)	Minor
	8. BUBBLE IN POLARIZER	ACCORDING TO STANDARD OF VISUAL INSPECTION(INSIDE VIEWING AREA)	Minor
	9. LCD'S RAINBOW COLOR	STRONG DEVIATION COLOR (OR NEWTON RING) OF LCDREJECTED. OR ACCORDING TO LIMITED SAMPLE (IF NEEDED, AND INSIDE VIEWING AREA)	Minor
	10. ELECTRICAL AND OPTICAL CHARACTERISTICS (CONTRAST: VOP : CHROMATICITY ETC)	ACCORDING TO SPECIFICATION OR DRAWING . (INSIDE VIEWING AREA)	Critical
ELECTRICAL	11.MISSING LINE	MISSING DOT LINE CHARACTER	Critical
	12.SHORT CIRCUIT- WRONG PATTERN DISPLAY	NO DISPLAY VRONG PATTERN DISPLAY CURRENT CONSUMPTION OUT OF SPECIFICATION REJECTED	Critical
	13. DOT DEFECT (FOR COLOR AND TFT)	ACCORDING TO STANDARD OF VISUAL	Minor

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NO.	CLASS	ITEM		JUDGEMENT			
			(A) RC	UND TYPE:	unit: mm		
			D	IAMETER (mm.)	ACCEPTABLE Q'TY		
		Ø≤0.2		Distances ≥ 1mm			
		BLACK AND WHITE		$0.2 < \varnothing \leq 0.3$	4 (Distance ≥ 15mm)		
		SPOT FOREIGN		$0.3 < \varnothing \leq 0.4$	3 (Distance ≥ 15mm)		
	MINOR	MATERIEL DUST IN		0.4 < Ø	0		
11.4.1		THE CELL BLEMISH		NOTE: Ø	=(LENGTH*WIDTH)/2		
		SCRATCH	(S) L	INE TYPE:	unit: mm		
		CONTON	LENGTH	WIDTH	ACCEPTABLE QTY		
				₩≤ 0.03	B Distance≥ 1mm		
			L ≤4.0	$0.03 < W \le 0.$	05 3 (Distanced \geq 15mm)		
			•••••	0.05 < W	FOLLOW ROUND TYPE		
				NOTE: Ø=(L	ENGTH*WIDTH)/2		
			[unit: mm.		
		BUBBLE IN POLARIZER		DIAMETER	ACCEPTABLE Q'TY		
11.4.2	11.4.2 MINOR DENT ON POLARIZER	DENT ON POLARIZER		Ø<0.2	Distance≥ 1mm		
				$0.2 < \emptyset \le 0.3$	4 (Distance≥ 15mm)		
				$0.3 < \emptyset \le 0.5$	2 (Distance≥ 15mm)		
				0. 5<Ø	0		
				Items	ACC. Q'TY		
				Bright dot	N \leq 2 (Distance \geq 15mm)		
				Dark dot	$N \leq 4$ (Distance $\geq 15mm$)		
			L	Pix	el Define :		
44.4.0		Det Defect		Pixel Pixel Dot Dot Dot			
11.4.3	MINOR	Dot Defect		To box of a box of a box.	Note		
			1: The definition of dot: The size of a defective dot over whole dot is regarded as one defective dot. Definition: dot and visible by 5% ND filter				
			2: Brig		r bright and unchanged in size m		
			-		displaying under black pattern.		
					irk dot: Dots appear dark and unchanged in size in which		
			LCD panel is displaying under pure red. green 、 blue patt				
			Not visible through 5% ND filter in 50% gray or judge by limit				
11.4.3.1	MINOR	Mura	sample if necessary				



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NO.	CLASS	ITEM	JUDGEMENT
11.4.5	MINOR	LCD GLASS CHIPPING	S X≥3mm Y>S Reject
11.4.6	MINOR	LCD GLASS CHIPPING	ST S X OR Y >S ject
11.4.7	MINOR	LCD GLASS CRACK	Continuous burst NG Reject
11.4.8	MINOR	LCD GLASS SCRIBE DEFECT	Λ [±] → B According to dimension
11.4.9	MINOR	LCD GLASS CHIPPING (on the terminal area)	Y<1/2Z Y≥0.5mm X≥3mm Reject
11.4.10	MINOR	LCD GLASS CHIPPING (on the terminal surface)	Y<1/2Z Y≥0.5mm X≥3mm
11.4.11	MINOR	LCD GLASS CHIPPING	x y x≥3mm y x y x x≥3mm y x y x x x x x x x x x x x x x x x x x

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12. Handling Precautions

12.1 Mounting method

The LCD panel of AMSON TFT module consists of two thin glass plates with polarizes which easily be damaged. And since the module in so constructed as to be fixed by utilizing fitting holes in the printed circuit board.

Extreme care should be needed when handling the LCD modules.

12.2 Caution of LCD handling and cleaning

When cleaning the display surface, Use soft cloth with solvent

[Recommended below] and wipe lightly

- Isopropyl alcohol
- Ethyl alcohol

Do not wipe the display surface with dry or hard materials that will damage the polarizer surface.

Do not use the following solvent:

- Water
- Aromatics

Do not wipe ITO pad area with the dry or hard materials that will damage the ITO patterns Do not use the following solvent on the pad or prevent it from being contaminated:

- Soldering flux
- Chlorine (CI) , Sulfur (S)

If goods were sent without being silicon coated on the pad, ITO patterns could be damaged due to the corrosion as time goes on.

If ITO corrosion happen by miss-handling or using some materials such as Chlorine (CI), Sulfur (S) from customer, Responsibility is on customer.

12.3 Caution against static charge

The LCD module use C-MOS LSI drivers, so we recommended that you:

Connect any unused input terminal to power or ground, do not input any signals before power is turned on, and ground your body, work/assembly areas, and assembly equipment to protect against static electricity.

12.4 packing

- Module employs LCD elements and must be treated as such.
- Avoid intense shock and falls from a height.
- To prevent modules from degradation, do not operate or store them exposed direct to sunshine or high temperature/humidity

12.5 Caution for operation

- It is an indispensable condition to drive LCD's within the specified voltage limit since the higher voltage then the limit cause the shorter LCD life.
- An electrochemical reaction due to direct current causes LCD's undesirable deterioration, so that the use of direct current drive should be avoided.
- Response time will be extremely delayed at lower temperature then the operating temperature range and on the other hand at higher temperature LCD's how dark color in them. However those phenomena do not mean malfunction or out of order with LCD's, which will come back in the specified operation temperature.
- If the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.
- Slight dew depositing on terminals is a cause for electro-chemical reaction resulting in terminal open circuit.

Usage under the maximum operating temperature, 50%Rh or less is required.



12.6 storing

In the case of storing for a long period of time for instance, for years for the purpose or replacement use, the following ways are recommended.

- Storage in a polyethylene bag with the opening sealed so as not to enter fresh air outside in it . And with no desiccant.
- Placing in a dark place where neither exposure to direct sunlight nor light's keeping the storage temperature range.
- Storing with no touch on polarizer surface by the anything else.
 [It is recommended to store them as they have been contained in the inner container at the time of delivery from us

12.7 Safety

- It is recommendable to crash damaged or unnecessary LCD's into pieces and wash off liquid crystal by either of solvents such as acetone and ethanol, which should be burned up later.
- When any liquid leaked out of a damaged glass cell comes in contact with your hands, please wash it off well with soap and water

13. Precaution for Use

13.1

A limit sample should be provided by the both parties on an occasion when the both parties agreed its necessity. Judgment by a limit sample shall take effect after the limit sample has been established and confirmed by the both parties.

13.2

On the following occasions, the handing of problem should be decided through discussion and agreement between responsible of the both parties.

- When a question is arisen in this specification.
- When a new problem is arisen which is not specified in this specifications?
- When an inspection specifications change or operating condition change in customer is reported to AMSON TFT and some problem is arisen in this specification due to the change.
- When a new problem is arisen at the customer's operating set for sample evaluation in the customer site.

14. Packing Method

TBD