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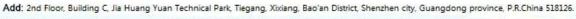
SPECIFICATION

Product Model: PV101016LZR40P

Approval by Customer:

Customer name:	
Customer model:	
Ok	
NG, Problem survey	
,	Approved By

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Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2020.04.11	NEW ISSUE	
V1	2020.05.04	Updated parameter	15
V2	2020.07.27	Added Idd	

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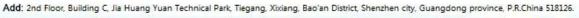












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1. Scope

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

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

2. General Information

ITEM	STANDARD VALUES	UNITS
LCD type	10.1"TFT	
Dot arrangement	1280×3(RGB)×800	dots
Color filter array	RGB vertical stripe	
Display mode	Normally Black	-
Viewing Direction	85/85/85	
Module size	$229.8(W) \times 149(H) \times 5.9(T)$	mm
Active area	216.96(W)×135.60(H)	mm
Dot pitch	0.1695(W)×0.1695(H)	mm
Interface	MIPI 4LANS	
Operating temperature	-30 ~ +80	°C
Storage temperature	-30 ~ +85	°C
Weight	TBD	g

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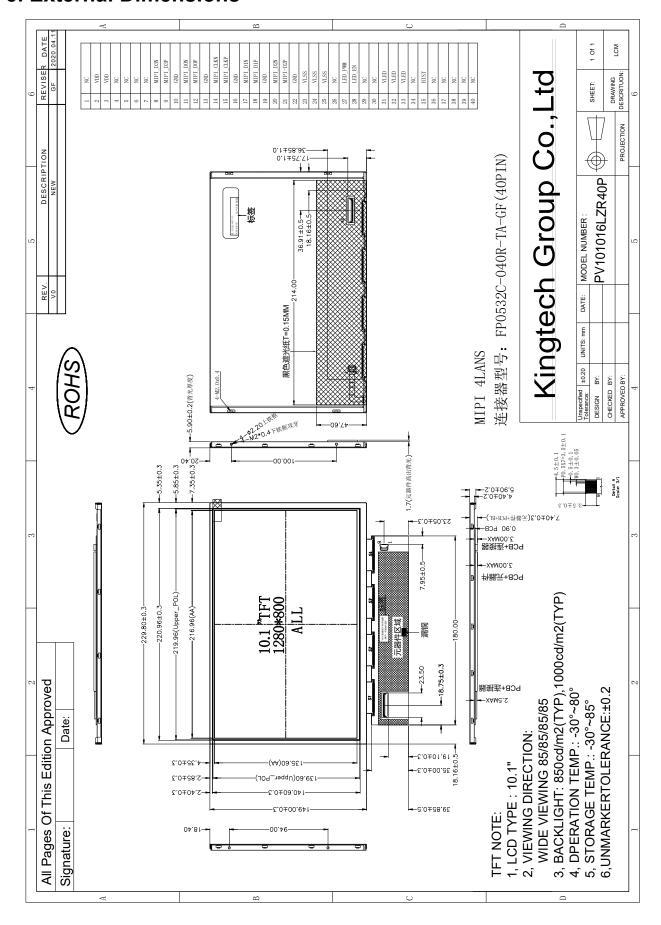


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3. External Dimensions



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4. Interface Description

PIN	PIN NAME	DESCRIPTION
1	NC	No connection
2	VDD	
3	VDD	Power Supply
4	NC	
5	NC	No connection
6	NC	
7		No connection
8	MIPI D3N	MIPI-DSI Data differential signal input pins. (Data lane 3)
9	_	MIPI-DSI Data differential signal input pins. (Data lane 3)
10	GND	Ground
11	MIPI DON	MIPI-DSI Data differential signal input pins. (Data lane 0)
12		MIPI-DSI Data differential signal input pins. (Data lane 0)
13	GND	Ground
14	MIPI CLKN	MIPI-DSI CLOCK differential signal input pins.
15		MIPI-DSI CLOCK differential signal input pins.
16	GND	Ground
17	MIPI D1N	MIPI-DSI Data differential signal input pins. (Data lane 1)
18	_	MIPI-DSI Data differential signal input pins. (Data lane 1)
19	GND	Ground
20	MIPI_D2N	MIPI-DSI Data differential signal input pins. (Data lane 2)
21	MIPI_D2P	MIPI-DSI Data differential signal input pins. (Data lane 2)
22	GND	Ground
23	VLSS	
24	VLSS	Ground
25	VLSS	
26	NC	No connection
27	LED_PWM	CABC controller signal output for backlight
28	LED_EN	CABC Enable Input
29	NC	No connection
30	NC	No connection
31	VLED	
32	VLED	VIN Voltage(12V TYP)
33	VLED	
34	NC	No connection
35	BIST	No connection
36	NC	No connection
37	NC	No connection
38	NC	No connection
39	NC	No connection
40	NC	No connection

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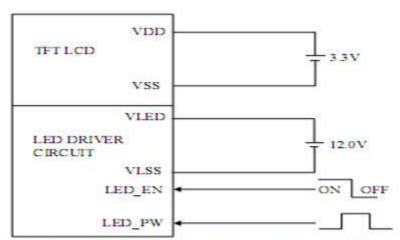
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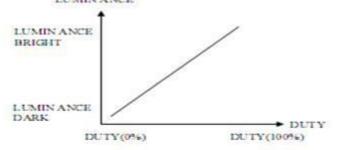
5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit	Remark
Digital Supply Voltage	VDD	-0.3	4.0	V	
VIN Voltage	VLED	-0.3	50	V	
Operating Temperature	Тор	-30	80	°C	
Storage Temperature	Тѕт	-30	85	°C	

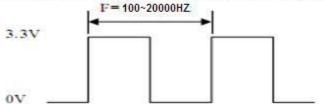
5.1 POWER SUPPLY FOR LCM



NOTE (1): ADJUST THE PWM SIGNAL IN ORDER TO CONTROL LED BACKLIGHTS
BRIGHTNESS THE HIGHER THE DUTY CYCLE, THE HIGHER THE BRIGHTNESS
LUMIN ANCE



NOTE (2): PWM SIGNAL=0~3.3V + OPERATION FREQUENCY: 100-20000HZ



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6. DC Characteristics

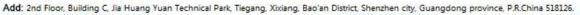
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Digital Supply Voltage	VDD	2.75	3.3	3.6	V	
Digital Supply Current	IDD	-	400	480	mA	VDD=3.3V
VIN Voltage	VLED	4.5	-	40		
Input logic high voltage	ViH	0.7*VDD	-	VDD	V	
Input logic low voltage	VIL	GND	-	0.3*VDD	V	

7. Timing Characteristics

7.1 MIPI DC/AC Characteristics

	HS Receiver DC	Specifications				
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
VDDA	MIPI RX Power		2.25		3.6	V
V _{NOZ}	Supply Noise Voltage		-50	=	50	mV
V _{CMRX(DC)}	Differential common-mode range		70	-	330	mV
V _{IDTH}	Differential input high threshold		-	× 1	70	mV
VIDTL	Differential Input Low Threshold		-70		w."	mV
VIHHS	Single-ended input high voltage				460	mV
VILHS	Single-ended input low voltage		-40	20	-	mV
V _{TERM-EN}	Single-ended threshold for HS termination enable	610		*0	450	mV
ZID	Differential input impedance		80	100	125	Ω
	LP Receiver DC	Specifications			377 417	
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
VIH	Logic 1 input voltage		880	29		mV
VIL	Logic 0 input voltage	- "(),	-	-	550	mV
V _{HYST}	Input hysteresis		25	751	-	mV
	Contention Detector (LP	-CD) DC Specifications				
Symbol	Parameter	Conditions		Тур	Max	Unit
VIHCD	Logic 1 contention threshold		450	2	2	mV
VILCD	Logic 0 contention threshold			+	200	mV

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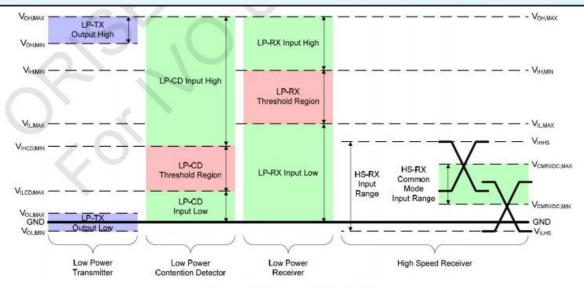


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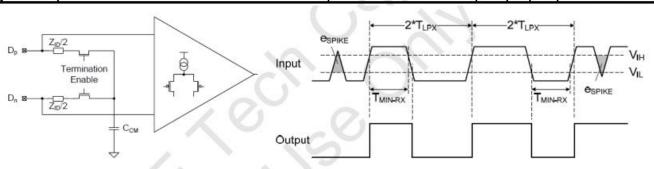
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Signaling and Contention Voltage Levels

	HS Receive	er AC Specifications				
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
ΔV _{CMRX(HF)}	Common-mode interference beyond 450MHz		-	-	100	mV
ΔV _{CMRX(HF)}	Common-mode interference 50MHz ~ 450MHz		-50		50	mV
Ссм	Common-mode termination		2	2	60	mV
UI _{INST}	III for the state of the state	HF=0	2		12.5	ns
	UI instantaneous	HF=1	1	×°	2	ns
	HS Receive	er AC Specifications		1,	6	
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
e _{SPIKE}	Input pulse rejection		N	9	300	V•ps
T _{MIN-RX}	Minimum pulse width response	611	20	_	-	ns
V _{INT}	Peak interference amplitude			-	200	mV
fint	Interference frequency		450		-	MHz



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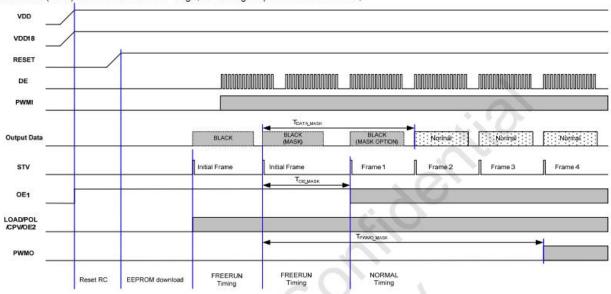
	Pin Characteristic Specifications							
Symbol	Parameter	Conditions	Min	Тур	Max	Unit	Note	
V _{PIN}	Pin signal voltage range		-50	-	1350	mV	2	
I _{LEAK}	Pin leakage current		-10		10	uA	1	
V _{GNDSH}	Ground shift		-50		50	mV		
V _{PIN(absmax)}	Transient pin voltage level		-0.15	5	1.45	V	3	
T _{VPIN(absmax)}	Maximum transient time above $V_{\text{PIN(max)}}$ or below $V_{\text{PIN(min)}}$		-	K	20	ns	2	

7.2 Power ON and Reset Timing

Symbol	Description	Min.	Тур.	Max.	Unit
TOE_MASK	OE1 keep high frame setting	0	1	7	TFRAME
T _{DATA MASK}	Output data keep "0" frame setting	1	2	7	T _{FRAME}
T _{PWMO MASK}	PWMO keep low frame setting	2	4	7	T _{FRAME}

Note: It is suggestion that PWMO start to output after normal display.

When Power (VDD) turns on and RESET=High, the timing sequence is listed below,



7.2.3 Interface Timings

Parameter	Symbol	Unit	Min.	Тур.	Max.
Frame Rate	- 4	Hz	5 .	60	10.73
Frame Period	tV	line	(815)	(823)	(1023)
Vertical Display Time	tVD	line	800		
Vertical Blanking Time	tvw+tvbp+tvfp	line	(15)	(23)	(33)
1 Line Scanning Time	tH	clock	(1410)	(1440)	(1470)
Horizontal Display Time	tHD	clock		1280	
Horizontal Blanking Time	tHW+tHBP+tHFP	clock	(60)	(160)	(190)
Clock Rate	1/Tc	MHz	(68.9)	(71.1)	(73.4)

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8. Backlight Characteristic

Item		Symbol	MIN	TYP	MAX	UNIT	NOTE
Backlight Power		VLED	8	12	15	V	Ta = 25°C
Backlight Power		IVLED	-	0.5	0.8	Α	VLED=12V
EN Signal Volta	VIH	LED EN	1.65		5.25	V	
ge VIL		LED_EN	GND		0.4	V	
Luminous Intensi VI		1 ED D\4/4	0.8Ven		5.25	V	
ty for LCM	VIL	LED_PWM	GND		0.2Ven	V	
PWM Frequency		LED_PWM	100		20000	Hz	
Lifetime			50000	-	-	Hr	
Color				W	hite		
Average Brightness		-	850	1000	-	Cd/cm2	
Luminance uniformity		-	80	-	-	%	

9. Optical Characteristics

9. Optical Characteristics								
Item	Conditions		Min.	Тур.	Max.	Unit	Note	
Viewing Angle	l lowizontol	θL	-	85	-	degree		
	Horizontal	θR	-	85	-		(1),(2),(6)	
(CR>10)		θт	-	85	-			
	Vertical	θв	-	85	-			
Contrast Ratio	Center		600	800	-	-	(1),(3),(6)	
Pospopo Timo	Rising		_	25	35	ms	(1),(4),(6)	
Response Time	Falling							
	naticity Green y		Typ. -0.05	0.610	Typ. +0.05	-	(1), (6)	
				0.335		-		
				0.340		-		
CF Color				0.595		-		
(CIE1931)				0.155		-		
()				0.205		-		
				0.340		-		
				0.370		-		

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.

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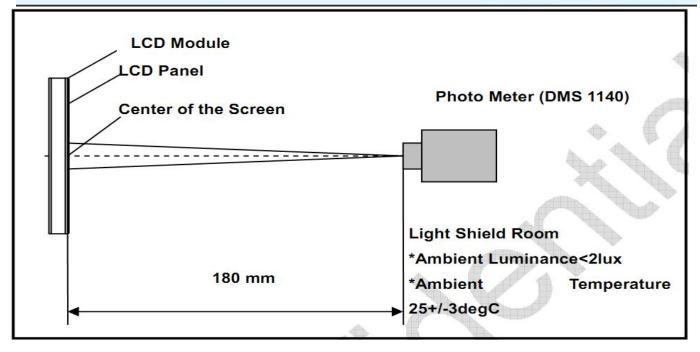
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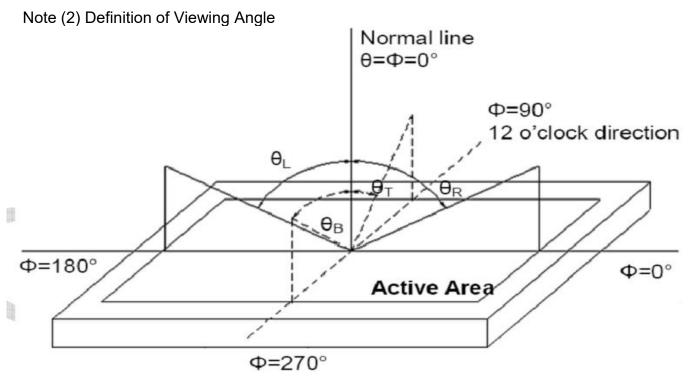
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Note (3) Definition of Contrast Ratio (CR)

The contrast ratio can be calculated by the following expression Contrast Ratio (CR) = L63 / L0

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

Note (4) Definition of response time

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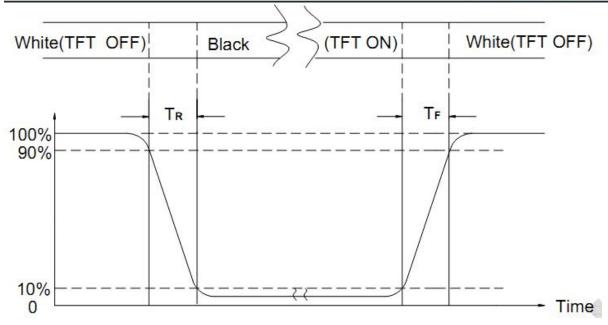


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Note (5) Definition of Transmittance (Module is without signal input)

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

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10. Reliability Test Conditions and Methods

NO.	TEST ITEMS	TEST CONDITION			
1)	High Temperature Storage	Keep in 85°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs			
2	Low Temperature Storage	Keep in -30°C ±5℃ 96 hrs Surrounding temperature, then storage at normal condition 4hrs.			
3	High Temperature Operating Test	80°C*96Hrs			
4	Low Temperature Operating Test	-30℃*96Hrs			
5	High Temperature / High Humidity Operating Test	60 ℃ / 90% R.H ,96 hrs.			
6	High Temperature / High Humidity Storage Test	Keep in 60 ℃ / 90% R.H duration for 96 hrs Surrounding temperature, then storage at normal condition 4hrs			
7	Temperature Cycling Storage Test	$-30^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow 85^{\circ}\text{C} \rightarrow +25^{\circ}\text{C}$ $(30\text{mins}) (5\text{mins}) (30\text{mins}) (5\text{mins})$ 30 Cycle Surrounding temperature, then storage at normal condition 4hrs			
		Air Discharge: Apply 6 KV with 5 times Discharge for each polarity +/- Contact Discharge: Apply 250 V with 5 times discharge for each polarity +/-			
8	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%) 			
9	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 			
10	Drop Test (Packaged)	Packing Weight (Kg) Drop Height (cm) 0 ~ 45 4 122 45.4 ~ 90.8 76 90.8 ~ 454 61			
		Drop Over 454 46			
		Direction: %1 corner / 3 edges / 6 sides each 1time			

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PS: 1 rest exclude Polaroid;

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 TO 40, 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

CLASS	AQL(%)
CRITICAL	0.4 %
MAJOR	0.65 %
MINOR	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 Ambient Illumination:

Functional detection in 1000 nits backlight environment Appearance detection in 800~1000 Lux external environment

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113 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 QUANTITY SHORT OR OVERREJECTED	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
APPEARANCE	5. VIEWING AREA	POLARIZER EDGE OR LCD'S SEALING LINE IS VISABLE IN THE VIEWING AREAREJECTED	Minor
	6. BLEMISH - BLACK SPOT - 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 : CHARACTERREJECTED	Critical
	12.SHORT CIRCUIT: WRONG PATTERN DISPLAY	NO DISPLAY - WRONG PATTERN DISPLAY - CURRENT CONSUMPTION OUT OF SPECIFICATION REJECTED	Critical
	13. DOT DEFECT (FOR COLOR AND TEX		Minor

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NO.	CLASS	ITEM	JUDGEN	MENT
11.4.1	MINOR	BLACK AND WHITE SPOT FOREIGN MATERIEL DUST IN THE CELL BLEMISH SCRATCH	(A) ROUND TYPE: DIAMETER (mm.) AC	
11.4.2	MINOR	BUBBLE IN POLARIZER DENT ON POLARIZER	DIAMETER $Φ \le 0.2$ $0.2 < Φ \le 0.5$ $0.5 < Φ$	unit: mm. ACCEPTABLE Q'TY Distance≥1mm 3 (Distance>15mm) 0
11.4.3	MINOR	Dot Defect $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		ize of a defective dot over d as one defective dot. sible by 5 % ND filter N ≤ 5 ght and unchanged in size laying under black pattern.
11,4,4	MINOR	Mura	Not visible thriugh 5% ND filter by limit sample if necessary	in 50% gray or judge

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NO.	CLASS	ITEM	JUDGEMENT
11.4.5	MINOR	LCD GLASS CHIPPING	X ≥ 3mm Y > S Reject
11.4.8	MINOR	LCD GLASS CHIPPING	X or Y > S Reject
11.4.7	MAJOR	LCD GLASS GLASS CRACK	Continuous burst NG Reject
11.4.8	MAJOR	LCD GLASS SCRIBE DEFECT	ACCORDING TO DIMENSION
11.4.9	MINOR	LCD GLASS CHIPPING (ON THE TERMINAL AREA)	Y<1/2Z Y ≥ 0.5mm _{Reject} X ≥ 3mm
11.4.10	MINOR	LCD GLASS CHIPPING (ON THE TERMINAL SURFACE)	Y<1/2Z $Y \ge 0.5 \text{mm}$ $Z \qquad X \ge 3 \text{mm}$
11.4.11	MINOR	LCD GLASS CHIPPING	$X\geqslant 3mm$ $Y\geqslant T\qquad \text{Reject}$ If touch the electrode lines, the need to retain the two-thirds electrode lines

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12. Handling Precautions

12.1 Mounting method

The LCD panel of KINGTECH 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.

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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 KINGTECH 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

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