

IPS MIPI 7.0" LCD TFT DATASHEET

Rev.1.0 2021-08-02

ITEM	CONTENTS	UNIT
LCD Type	TFT/Transmissive/Normally Black/IPS	/
Size	7.0	Inch
Viewing Direction	Free	/
Outside Dimensions (W x H x D)	164.90 x 100.00 x 5.70	mm
Active Area (W x H)	154.21 x 85.92	mm
Pixel Pitch (W x H)	0.1506 x 0.1432	mm
Resolution	1024 (RGB) x 600	/
Brightness	1000	cd/m²
LCD Interface Type	MIPI	/
Color Depth	16.7 M	/
Pixel Arrangement	RGB Vertical Stripe	/
LCD Driver	EK79007AD3+EK73217BCGA	/
With/Without Touch	With Projected Capacitive Touch Panel	/
CTP Driver	ILI2132A	/
Touch Interface	USB /I2C/Optional UART	/
Weight	133	g

Note 1: RoHS3 compliant

Note 2: LCM weight tolerance: ± 5%.



1. REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2021-08-02	Initial Release	



2. CONTENTS

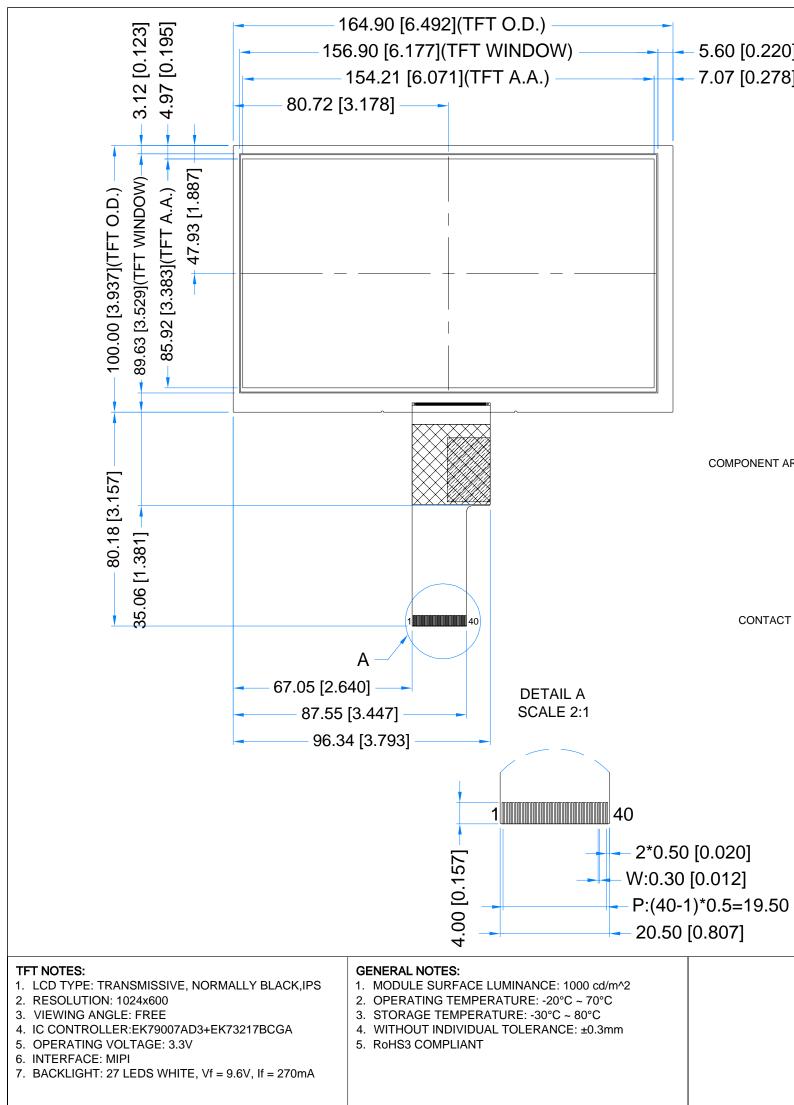
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3. MODULE CLASSIFICATION INFORMATION

		70							
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.

NO.	PARAMETER	SYMBOL
1.	BRAND	RV – Riverdi
2.	PRODUCT TYPE	T – TFT Standard
3.	DISPLAY SIZE	70 – 7.0"
4.	MODEL SERIAL NO.	H – High Brightness, IPS
5.	RESOLUTION	S – 1024 x 600 px
6.	INTERFACE	M – MIPI
7.	FRAME	N – Without Mounting Metal Frame
8.	BACKLIGHT TYPE	W – LED White
9.	TOUCH PANEL	N – Without Touch Panel
10.	VERSION	00 – (00-99)





5. ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNIT
Power for Circuit Driving	VDD	-0.3	+4.6	V
Operating Temperature	T _{OP}	-20	70	°C
Storage Temperature	T _{ST}	-30	80	°C
Storage Humidity (@ 25 ± 5°C)	H _{ST}	10	-	% RH
Operating Ambient Humidity (@ 25 ± 5°C)	H _{OP}	10	-	% RH

Note. The above are maximum values. If exceeded, they may cause permanent damage to the unit.

6. ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage for Module	VDD	2.6	3.3	3.6	V
Digital Power Current	IDD	-	30	45	mA
Logic Input Signal Voltage	VIH	0.7VDD	-	VDD	V
Logic input signal voltage	VIL	0	-	0.3VDD	V

7. BACKLIGHT ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Backlight Driving Voltage	VF	9.0	9.6	10.2	V
Backlight Driving Current	IF	-	270	315	mA
Backlight Power Consumption	WBL	-	2592	-	mW
Lifetime	-	-	50,000	-	

Note. Operating life means the period in which the LED brightness goes down to 50% of the initial brightness. Typical operating lifetime is the estimated parameter.



8. ELECTRO-OPTICAL CHARACTERISTICS

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 30 minutes in a dark environment at 25 °C. The values specified are at an approximate distance 500mm from the LCD surface at a viewing angle of Φ and θ equal to 0°.

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT	RMK	NOTE	
Response Time	Tr+Tf		-	35	-	ms	FIG 1.	4	
Contrast Ratio	Cr	θ=0°	-	800	-		FIG 2.	1	
Luminance Uniformity	δ WHITE	ø=0° Ta=25 °C	-	75	-	%	FIG 2.	3	
Surface Luminance	Lv	14-25 C	-	800	-	cd/m2	FIG 2.	2	
	θ	ø = 90°	-	85	-	deg	FIG 3.	6	
Viewing Angle		ø = 270°	-	85	-	deg	FIG 3.		
Range		O O	ø = O∘	-	85	-	deg	FIG 3.	O
		ø = 180°	-	85	-	deg	FIG 3.		
	Rx		0.578	0.618	0.658	-			
	Ry		0.489	0.329	0.369	-			
	Gx	θ=0°	0.376	0.416	0.456	-			
CIE (x, y)	Gy	ø=0°	0.493	0.533	0.573	-	FIG 2.	5	
Chromaticity	Bx		0.071	0.111	0.151	-	FIG 2.	5	
	Ву	1a-25 C	0.108	0.148	0.188	-			
	Wx		0.270	0.310	0.350	-			
	Wy		0.290	0.330	0.370	-	1		

Note 1. Contrast Ratio (CR) is defined mathematically as below, for more information see Figure 2.

Contrast Ratio = $\frac{\text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Average Surface Luminance with all black pixels (P1, P2, P3, P4, P5)}}$

Note 2. Surface luminance is the LCD surface from the surface with all pixels displaying white. For more information see Figure 2.

Lv = Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)

Note 3. The uniformity in surface luminance δ WHITE is determined by measuring luminance at each test position 1 through 5, and then dividing the minimum luminance of 5 points luminance by maximum luminance of 5 points luminance. For more information see Figure 2.

 $\delta \text{ WHITE } = \frac{\text{Minimum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Maximum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}$

Note 4. Response time is the time required for the display to transition from white to black (Rise Time, Tr) and from black to white (Decay Time, Tf). For additional information see Figure 1. The test equipment is Autronic-Melchers's ConoScope series.

Note 5. CIE (x, y) chromaticity, the x, y value is determined by measuring luminance at each test position 1 through 5, and then make average value.



Note 6. Viewing angle is the angle at which the contrast ratio is greater than 2. For TFT module the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to LCD surface. For more information see Figure 3.

Note 7. For viewing angle and response time testing, the testing data is based on Autronic-Melchers's ConoScope series. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, CIE the test data is based on TOPCON's BM-5 photo detector.

Figure 1. The definition of response time

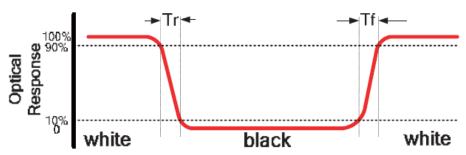
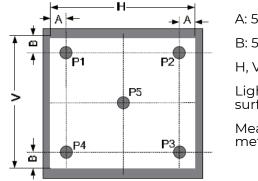


Figure 2. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity



A: 5mm

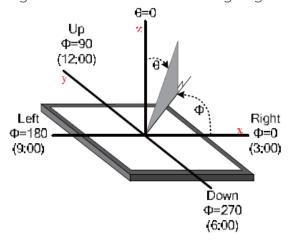
B:5mm

H, V: Active Area

Light spot size Ø=5mm, 500mm distance from the LCD surface to detector lens.

Measurement instrument is TOPCON'S luminance meter BM-5

Figure 3. The definition of viewing angle





9. INTERFACE DESCRIPTION

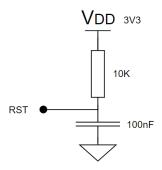
9.1 TFT assignment

NC		0.0.00	./-		
2	PIN NO.	SYMBOL	1/0	DESCRIPTION	NOTE
3	1	NC	-	No connection	
NC	2	VDD	Р	Power supply 3.3V	
S	3	VDD	Р	Power supply 3.3V	
Internally pull-up, STBYB	4	NC	-	No connection	
STBYB	5	RESET	I	Global reset pin. Active low to enter reset state.	NOTE 1
8	6	STBYB	I	STBYB=1, normal operation.	
9	7	GND	Р	Ground	
10	8	DON	I/O	Negative MIPI differential data input	
11	9	D0P	I/O	Positive MIPI differential data input	
12	10	GND	Р	Ground	
13	11	DIN	I/O	Negative MIPI differential data input	
14 D2N I/O Negative MIPI differential data input 15 D2P I/O Positive MIPI differential data input 16 GND P Ground 17 DCLKN I/O Negative MIPI differential clock input 18 DCLKP I/O Positive MIPI differential clock input 19 GND P Ground 20 D3N I/O Negative MIPI differential data input 21 D3P I/O Positive MIPI differential data input 22 GND P Ground 23 NC - No connection 24 NC - No connection 25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection	12	DIP	I/O	Positive MIPI differential data input	
15	13	GND	Р	Ground	
16	14	D2N	1/0	Negative MIPI differential data input	
17	15	D2P	1/0	Positive MIPI differential data input	
18	16	GND	Р	Ground	
19	17	DCLKN	1/0	Negative MIPI differential clock input	
D3N	18	DCLKP	I/O	Positive MIPI differential clock input	
21 D3P I/O Positive MIPI differential data input 22 GND P Ground 23 NC - No connection 24 NC - No connection 25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- No connection 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 37 NC - No connection 38 NC - No connection 39	19	GND	Р	Ground	
22 GND P Ground 23 NC - No connection 24 NC - No connection 25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection No connection 37 NC - No connection No connection 38 NC - No connection 39 LED+ P LED Anode	20	D3N	1/0	Negative MIPI differential data input	
23 NC - No connection 24 NC - No connection 25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	21	D3P	I/O	Positive MIPI differential data input	
24 NC - No connection 25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection No connection 36 NC - No connection No connection 38 NC - No connection 39 LED+ P LED Anode	22	GND	Р	Ground	
25 GND P Ground 26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection No connection 36 NC - No connection No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	23	NC	-	No connection	
26 NC - No connection 27 NC - No connection 28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection No connection 36 NC - No connection No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	24	NC	-	No connection	
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28 NC - No connection 29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	26	NC	-	No connection	
29 NC - No connection 30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up Note 2 34 U/D I Up/Down display control, internally pull down No connection 35 NC - No connection No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	27	NC	-	No connection	
30 GND P Ground 31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	28	NC	-	No connection	
31 LED- P LED Cathode 32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	29	NC	-	No connection	
32 LED- P LED Cathode 33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	30	GND	Р	Ground	
33 L/R I Left/Right display control, internally pull-up 34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	31	LED-	Р	LED Cathode	
34 U/D I Up/Down display control, internally pull down Note 2 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	32	LED-	Р	LED Cathode	
34 U/D I Up/Down display control, internally pull down 35 NC - No connection 36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	33	L/R	I	Left/Right display control, internally pull-up	NI-t 2
36 NC - No connection 37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	34	U/D	I	Up/Down display control, internally pull down	Note 2
37 NC - No connection 38 NC - No connection 39 LED+ P LED Anode	35	NC	-	No connection	
38 NC - No connection 39 LED+ P LED Anode	36	NC	-	No connection	
39 LED+ P LED Anode	37	NC	-	No connection	
	38	NC	-	No connection	
	39	LED+	Р	LED Anode	
40 LED+ P LED Anode	40	LED+	Р	LED Anode	

I: input, O: output, P: Power



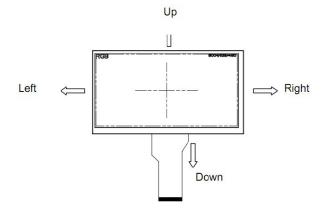
Note 1: Recommended Reset circuit:



Note 2: U/D (Pin 34) is internally pull-down, and R/L (Pin 33) is internally pull-up. The default scanning direction is up to down, left to right.

SETTING OF SCAN CONTROL	SCANNING DIRECTION	
U/D	L/R	
GND	VDD	Up to down, left to right
VDD	GND	Down to up, right to left
GND	GND	Up to down, right to left
VDD	VDD	Down to up, left to right

Definition of scanning direction, refer to the figure as below:

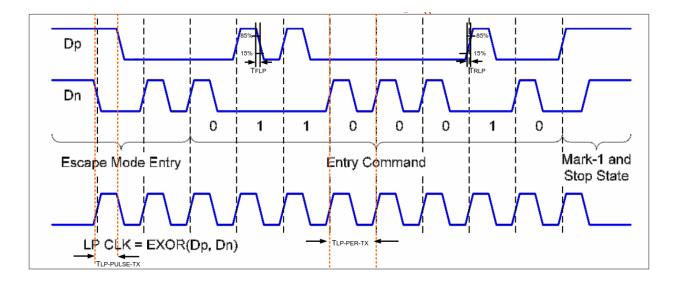




10. TIMING CHARACTERISTICS

10.1 Low power transmitter AC characteristic

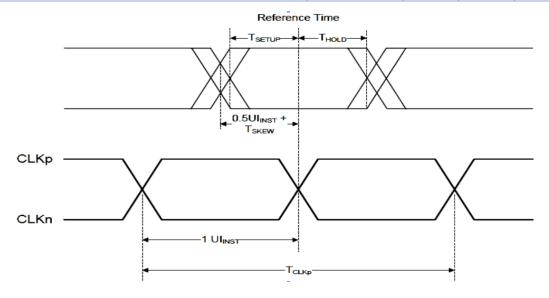
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	
15%~85% rising time	e and falling time	T _{RLP} /T _{FLP}	-	-	25	
30%~85% rising tim	e and falling time	T_{REOT}	-	-	35	
	First LP EXOR clock pulse					
Pulse width of LP	after STOP state or LAST		40	-	-	ns
exclusive -OR	pulse before stop state	T _{LP-PULSE-TX}				
clock	All other pulses		20	-	-	
Period of the LP EX	OR clock	T _{LP-PER-TX}	90	-	-	
Slew Rate @CLOAD) =0pF		30	-	500	
Slew Rate @CLOAD =5pF		$\delta V/\delta t_{SR}$	30	-	200	mV/ns
Slew Rate @CLOAD =20pF		OV/OLSR	30	-	150	
Slew Rate @CLOAD =70pF			30	-	100	
Load Capacitance		T_{RLP}	-	-	70	рF





10.2 High speed transmission

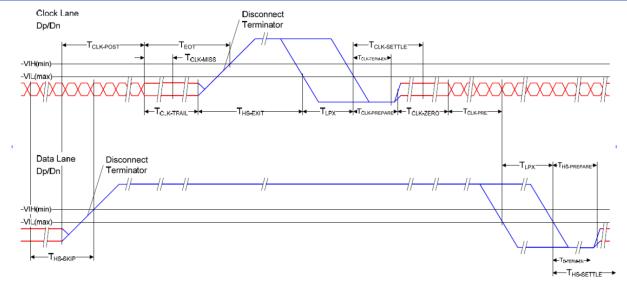
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
UI instantaneous	UI _{INST}	2	-	12.5	ns
Data to Clock Skew (measured at transmitter)	T _{SKEW(TX)}	-0.15	-	0.15	
Data to Clock Setup time (Measured at receiver)	T _{SETUP(RX)}	0.15	-	-	UI _{INST}
Data to Clock Hold time (Measured at receiver)	T _{HOLD(RX)}	0.15	-		
20%~80% rising time and falling time	T_R, T_F	150	-	-	ps
2070**0070 Hailing tilthe alld falling tilthe	IR, IF	-	-	0.3	UI _{INST}



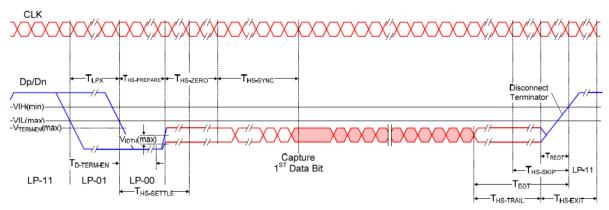


10.3 High speed clock transmission

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Time that the transmitter shall continue sending HS clock after the last associated Data Lane has transitioned to LP mode	T _{CLK-POST}	60+52UI	-	-	
Detection time that the clock has stopped toggling	T _{CLK-MISS}	-	-	60	
Time to drive LP-00 to prepare for HS clock transmission	T _{CLK-PREPARE}	38	-	95	ns
Minimum lead HS-0 drive period before starting clock	T _{CLK-PREPARE+} T _{CLK-ZERO}	300	-	-	
Time to enable Clock Lane receiver line termination measured from when Dn cross V _{IL,MAX}	T _{HS-TERM-EN}	-	-	38	
Minimum time that the HS clock must be prior to any associated data lane beginning the transmission from LP to HS mode	T _{CLK-PRE}	8	-	-	UI
Time to drive HS differential state after last payload clock bit of a HS transmission burst	T _{CLK} -TRAIL	60	-	-	ns



10.4 High speed data transmission in bursts





11. INITIALIZATION CODE

DCS_Short_Write_NP(0x01); //Software Reset

Delay (120);

Generic_Short_Write_1P(0x87,0x5A);

//Other commands will not work if this command is nor written

Generic_Short_Write_1P(0xB2,0x70); //Set Channels 2LANE:0x50; 3LANE:0x60; 4LANE:0x70

Generic_Short_Write_1P(0x80,0x4B); //Set Gamma voltage

Generic_Short_Write_1P(0x81,0xFF); //Set Gamma voltage

Generic_Short_Write_1P(0x82,0x1A); //Set Gamma voltage

Generic_Short_Write_1P(0x83,0x88); //Set Gamma voltage

Generic_Short_Write_1P(0x84,0x8F); //Set Gamma voltage

Generic_Short_Write_1P(0x85,0x35); //Set Gamma voltage

Generic_Short_Write_1P(0x86,0xB0); //Set Gamma voltage

DCS_Short_Write_NP(0x11); //Exit Sleep Mode

Delay (120);

DCS_Short_Write_NP(0x29); //Display on; 0x28 is display off

Delay (20);



12.INSPECTION

Standard acceptance/rejection criteria for TFT module

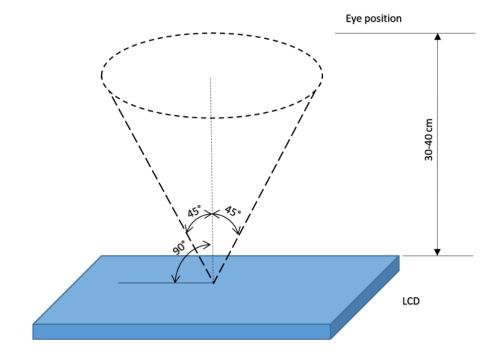
12.1 Inspection condition

Ambient conditions:

- Temperature: 25 ± 2°C
- Humidity: (60 ± 10) %RH
- Illumination: Single fluorescent lamp non-directive (300 to 700 lux)

Viewing distance: 35 ± 5cm between inspector bare eye and LCD.

Viewing Angle: U/D: 45°/45°, L/R: 45°/45°





12.2 Inspection standard

ITEM		CRITE	RIO	١			
		Size = 7"					
Black spots, white spots, light leakage, Foreign Particle (round Type)	x	Average Diameter D ≤ 0.2 mm			Qualified Qty Ignored		
	*	0.2 mm < D ≤ 0.3 mm			N≤3		
		0.5mm < D			Not allowed		
	D=(x+y)/2 Spot's density: 10 mm	0.5mm < D					
	Width	Size = 7"					
		Length V		Width		Qualified Qty	
LCD black spots, white spots,)	-		W ≤ 0.05		Ignored	
light leakage (line Type)	Length	L ≤ 5.0		0.05 < W ≤ 0.1		3	
(iiile Type)		5.0 < L		0.1 < W		Not allowed	
Dright/Doul		Size = 7"					
	ltem	Item		Qualified Qty			
Bright/Dark Dots	Bright dots			N≤2			
DOIS	Dark dots			N≤3			
	Total bright and da				N≤4		
	Size = 7"						
	Average Diameter			Qualified Qty			
Clear spots	D < 0.2 mm			Ignored			
Cicai spots	0.2 mm < D < 0.3 mm			4			
	0.3 mm < D < 0.5 mm			2			
	0.5 mm < D						
	Size = 7"						
Polarizer	Average Diameter			Qualified Qty			
bubbles	D ≤ 0.2 mm		Ignored				
	0.2 mm < D ≤ 0.5 mm			4			
	0.5 mm < D						
Touch panel spot	Size ≥ 5"		Qualified Oty				
	Average Diameter D < 0.25 mm			Qualified Qty Ignored			
	0.25 mm < D < 0.5 mm		4				
	0.5 mm < D			0			
	0.51111111	Size ≥ 5"					
Touch panel White line	Length	Width		Qualified Qty			
	-	W < 0.03		Ign	nored		
Scratch	L < 5.0	0.03 < W < 0.05		2	2		
	-	0.05 < W		0			



13. RELIABILITY TEST

NO.	TEST ITEM	TEST CONDITION			
1	High Temperature Storage	80°C/120 hours			
2	Low Temperature Storage	-30°C/120 hours			
3	High Temperature Operating	70 °C /120 hours			
4	Low Temperature Operating	-20°C/120 hours			
5	High Temperature and High Humidity	Humidity 40°C, 90%RH, 120Hrs			
		-20°C for 30min, 70°C for 30 min.			
6	Thermal Cycling Test (No operation)	100 cycles. Then test at room			
		temperature after 1 hour			
		Frequency: 10 ÷ 55 Hz.			
	Vibration Test	Stroke: 1.5 mm.			
7		Sweep: 10Hz ÷ 55Hz ÷ 10 Hz.			
		2 hours for each direction of X, Y, Z			
		(Total 6 hours)			
8	Package Drop Test	Height: 60 cm			
		1 corner, 3 edges, 6 surfaces			
		Air: ±2 kV,			
9	ESD Test	Human Body Mode,			
		100 pF /1500 Ω			

Note 1. Sample quantity for each test item is 5 ÷ 10 pcs.

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



14. LEGAL INFORMATION

Riverdi grants the guarantee for the proper operation of the goods for a period of 12 months from the date of possession of the goods. If in a consequence of this guaranteed execution the customer has received the defects-free item as replacement for the defective item, the effectiveness period of this guarantee shall start anew from the moment the customer receives the defects-free item.

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