TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

Represented by:

FIRST Components s.r.l.
www.first-components.com
technical@first-components.com
+39 0332 1888005

SPECIFICATION

MODULE NO.: WF101-19201200NL#0P0-FC

General Specifications

Item	Dimension	Unit
Size	10.1	inch
Dot Matrix	1920(H) X RGB X 1200(V)	dots
Module dimension	231.40 x152.3 x 9.1 Max	mm
Active area	216.8064(H) x 135.504(V)	mm
Dot pitch	0.11292(H) x 0.11292(V)	mm
LCD type	TFT, Normally Black, Transmissive	
Interface	2ch-LVDS	
Driver IC	HX8290-B or equivalent	
Viewing Angle	80/80/80/80	
Aspect Ratio	16:10	
Backlight Type	LED,Normally White	
Touch Panel	Without Touch Panel	
Surface	Glare	

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	-	+70	℃
Storage Temperature	TST	-30	-	+80	℃

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Min	Typ.	Max.	Unit
Power Supply Voltage	VDDIN	3.0	3.3	3.6	V
	VRP	-	-	300	mV
Power Supply Current	IDD	-	300	360	mA
Power Consumption	PLCD	-	1	1.2	W
Rush current	IRUSH	-	-	3.0	A

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Interface

1.TFT LCD MODULE

Pin No.	Symbol	Description
1-5	NC	No connection
6	GND	Ground
7	ELV3P	EVEN LVDS Positive data signal (+)
8	ELV3N	EVEN LVDS Negative data signal (-)
9	GND	Ground
10	ELV2P	EVEN LVDS Positive data signal (+)
11	ELV2N	EVEN LVDS Negative data signal (-)
12	GND	Ground
13	ELVCLKP	EVEN LVDS Positive CLK signal (+)
14	ELVCLKN	EVEN LVDS Negative CLK signal (-)
15	GND	Ground
16	ELV1P	EVEN LVDS Positive data signal (+)
17	ELV1N	EVEN LVDS Negative data signal (-)
18	GND	Ground
19	ELV0P	EVEN LVDS Positive data signal (+)
20	ELV0N	EVEN LVDS Negative data signal (-)
21	GND	Ground
22	OLV3P	Odd LVDS Positive data signal (+)
23	OLV3N	Odd LVDS Negative data signal (-)
24	GND	Ground
25	OLV2P	Odd LVDS Positive data signal (+)
26	OLV2N	Odd LVDS Negative data signal (-)
27	GND	Ground
28	OLVCLKP	Odd LVDS Positive CLK signal (+)
29	OLVCLKN	Odd LVDS Negative CLK signal (-)
30	GND	Ground
31	OLV1P	Odd LVDS Positive data signal (+)
32	OLV1N	Odd LVDS Negative data signal (-)
33	GND	Ground
34	OLV0P	Odd LVDS Positive data signal (+)

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35	OLV0N	Odd LVDS Negative data signal (-)
36	GND	Ground
37 -39	NC	No connection (PIN39 and PIN40 cannot be short-circuited together)
40	NC	No connection alone
41-45	VDDIN	Power supply VDDIN=3.3V (Typ.)

2.Backlight PIN Definition

Pin No.	Symbol	Description
1	VLED+	Red, LED_ Anode
2	VLED-	Black, LED_ Cathode

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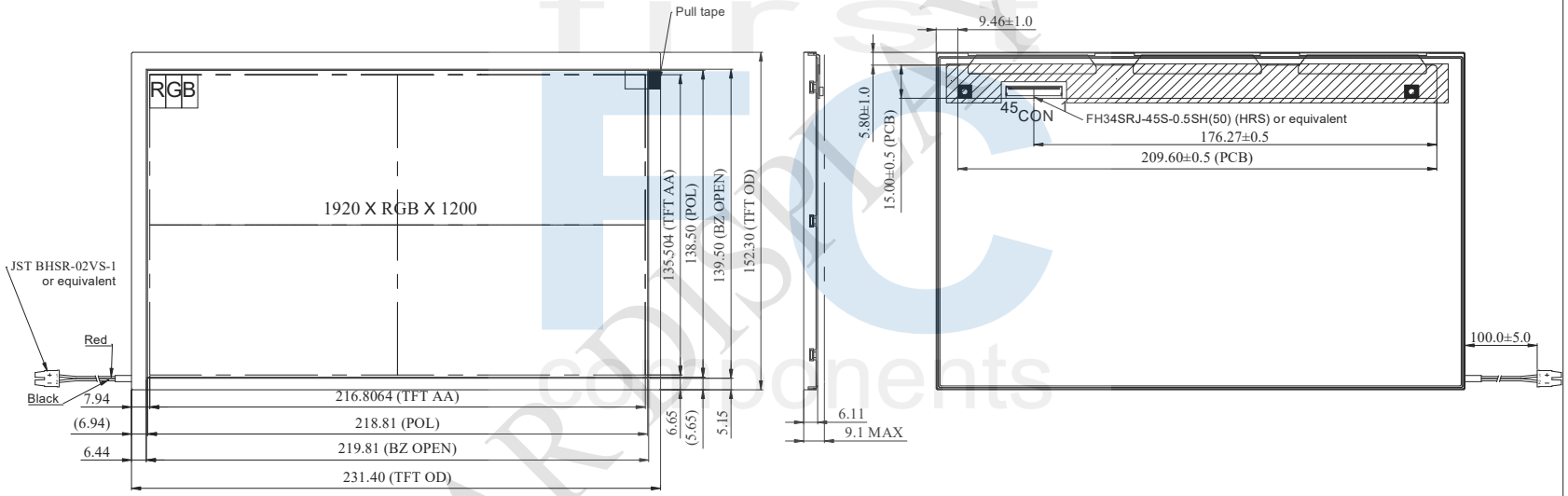
Contour Drawing

BL

PIN NO.	SYMBOL
1	VLED+
2	VLED-

CON

PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	NC	11	ELV2N	21	GND	31	OLV1P	41	VDDIN
2	NC	12	GND	22	OLV3P	32	OLV1N	42	VDDIN
3	NC	13	ELVCLKP	23	OLV3N	33	GND	43	VDDIN
4	NC	14	ELVCLKN	24	GND	34	OLV0P	44	VDDIN
5	NC	15	GND	25	OLV2P	35	OLV0N	45	VDDIN
6	GND	16	ELV1P	26	OLV2N	36	GND		
7	ELV3P	17	ELV1N	27	GND	37	NC		
8	ELV3N	18	GND	28	OLVCLKP	38	NC		
9	GND	19	ELV0P	29	OLVCLKN	39	NC		
10	ELV2P	20	ELV0N	30	GND	40	NC		



The non-specified tolerance of dimension is ±0.3 mm .

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