TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.

華凌光電股份有限公司

SPECIFICATION

MODULE NO.: WF70A9SWAGLNN0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGB x 480 (TFT)	dots
Module dimension	165.8 (W) x 106.61 (H) x 6.5(D)	mm
Active area	152.40 x 91.44	mm
Pixel pitch	0.1905 x 0.1905	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
TFT Interface	LVDS	
TFT Driver IC	HX8249-A + HX8678-C or Equivalent	
Aspect Ratio	15:9	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	Vcc	2.7	3.3	3.6	V
Current of power supply	Icc	—	133	200	mA

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Interface

1.LCM PIN Definition

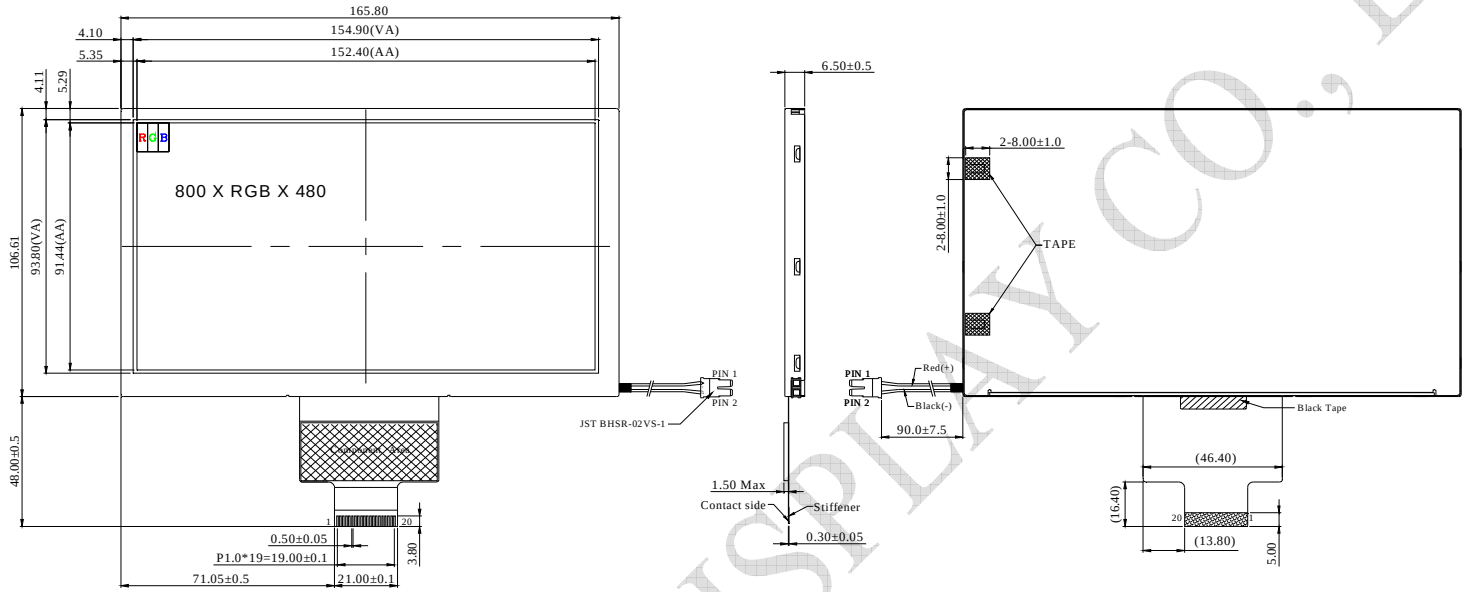
Pin	Symbol	Function
1	VCC	Power voltage
2	VCC	Power voltage
3	GND	Power Ground
4	GND	Power Ground
5	LVD0N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.
6	LVD0P	
7	GND	Power Ground
8	LVD1N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.
9	LVD1P	
10	GND	Power Ground
11	LVD2N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.
12	LVD2P	
13	GND	Power Ground
14	LVDSCKN	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.
15	LVDSCKP	
16	GND	Power Ground
17	LVD3N	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.
18	LVD3P	
19	DINT	Input data format selection. Effective when FCS=1. DINT / Function / Note 1 / 8-bit / Default 0 / 6-bit / -
20	SC	RL & TB Selection 1: Left to Right, Top to Bottom. (Default) 0: Right to Left, Bottom to Left.

2. Backlight PIN Definition

Pin	Symbol	Description
1	VLED+	Red, LED_ Anode
2	VLED-	Black, LED_ Cathode

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Contour Drawing



PIN NO	SYMBOL
1	VCC
2	VCC
3	GND
4	GND
5	LVD0N
6	LVD0P
7	GND
8	LVD1N
9	LVD1P
10	GND
11	LVD2N
12	LVD2P
13	GND
14	LVDSCKN
15	LVDSCKP
16	GND
17	LVD3N
18	LVD3P
19	DINT
20	SC

DINT	Interface
0	LVDS, 6bit
1	LVDS, 8bit(VESA) LVDS, 8bit(JEDIA)

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

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