

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFF700B6-AWH-LNN

SPECIFICATION

General Specifications

- Size: 7.0 inch
- Dot Matrix: 800 x RGB x 480(TFT) dots
- Module dimension: 169.8 (W) x 109.7 (H) x 10.0 (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.

Interface

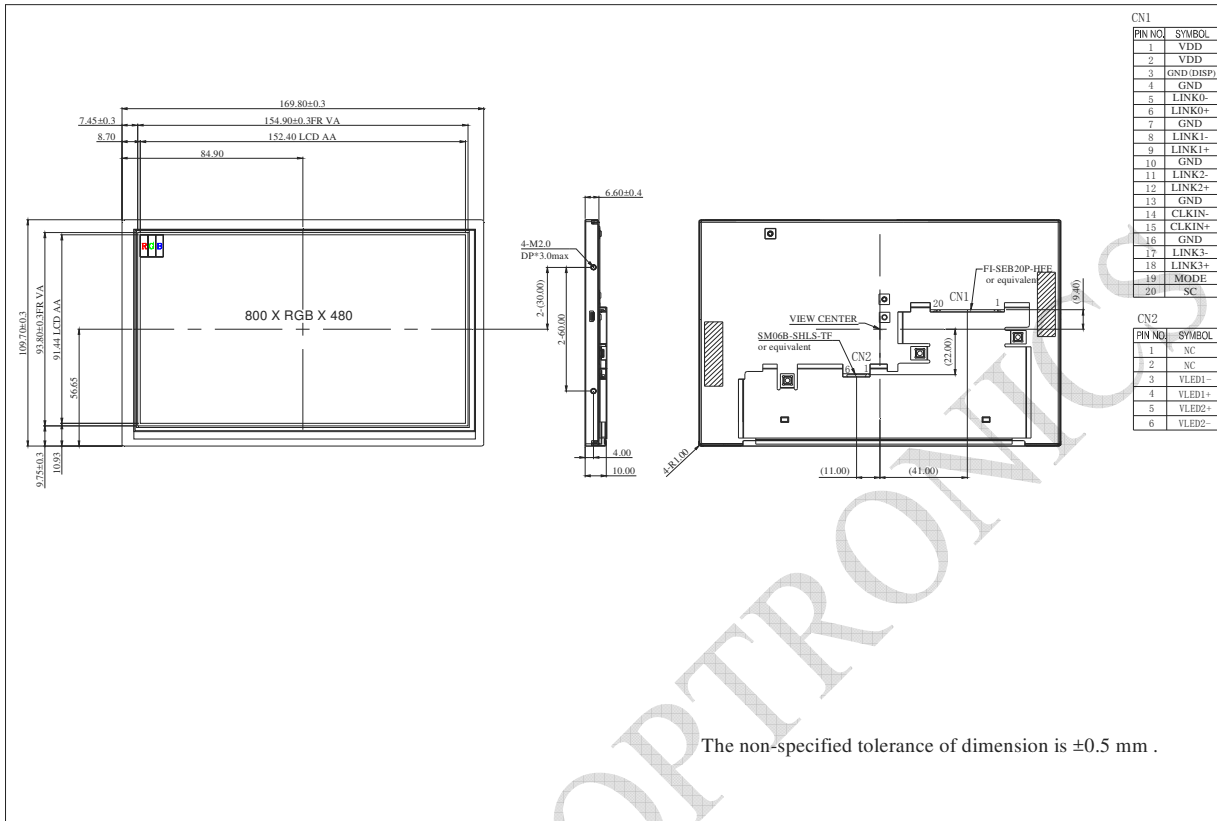
1. LCM PIN Definition(CN1)

Pin	Symbol	Function									
1	VDD	Power voltage									
2	VDD	Power voltage									
3	GND(DISP)	Power Ground									
4	GND	Power Ground									
5	LINK0-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
6	LINK0+										
7	NC	No connection									
8	LINK1-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
9	LINK1+										
10	NC	No connection									
11	LINK2-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
12	LINK2+										
13	NC	No connection									
14	CLKIN-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
15	CLKIN										
16	NC	No connection									
17	LINK3-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
18	LINK3+										
19	MODE	Input data format selection. Effective when FCS=1.									
		<table border="1"> <thead> <tr> <th>MODE</th> <th>Function</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8-bit</td> <td>Default</td> </tr> <tr> <td>0</td> <td>6-bit</td> <td>-</td> </tr> </tbody> </table>	MODE	Function	Note	1	8-bit	Default	0	6-bit	-
		MODE	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(CN2)

Pin	Symbol	Description
1-2	NC	No connection
3	VLED1-	VLED1_ Cathode
4	VLED1+	VLED1_ Anode
5	VLED2-	VLED2_ Cathode
6	VLED2+	VLED2_ Anode

Contour Drawing



CN1

PIN NO.	SYMBOL
1	VDD
2	VDD
3	GND(DISP)
4	GND
5	LINK0-
6	LINK0+
7	GND
8	LINK1-
9	LINK1+
10	GND
11	LINK2-
12	LINK2+
13	GND
14	CLKIN-
15	CLKIN+
16	GND
17	LINK3-
18	LINK3+
19	MODE
20	NC

CN2

PIN NO.	SYMBOL
1	NC
2	NC
3	VLED1-
4	VLED1+
5	VLED2-
6	VLED2+

The non-specified tolerance of dimension is ±0.5 mm .

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions

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

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	2*110	—	mA
LED voltage	VLED+	18.9	21.0	23.8	V
LED Life Time	—	—	100,000	—	Hr