RAYSTAR
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RFF700H-AIW-DNN

SPECIFICATION

General Specifications

- Size: 7.0 inch
- Dot Matrix: 800 x RGB x 480(TFT) dots
- Module dimension: 165.0(W) x 104.8(H) x 5.2(D) mm
- Active area: 152.4 x 91.44 mm
- Dot pitch: 0.0635 x 0.1905 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Backlight Type: LED,Normally White
- With /Without TP: Without TP
- Surface: Anti-Glare

*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

Pin	Symbol	Function
1	GND	Power Ground
2	GND	Power Ground
3	NC	Not Connect
4	Vcc	Power Supply for Digital Circuit
5	Vcc	Power Supply for Digital Circuit
6	Vcc	Power Supply for Digital Circuit
7	Vcc	Power Supply for Digital Circuit
8	NC	Not Connect
9	DE	Data Enable
10	GND	Power Ground
11	GND	Power Ground
12	GND	Power Ground
13	B5	Blue Data 5 (MSB)
14	B4	Blue Data 4
15	B3	Blue Data 3
16	GND	Power Ground
17	B2	Blue Data 2
18	B1	Blue Data 1
19	B0	Blue Data 0 (LSB)
20	GND	Power Ground
21	G5	Green Data 5 (MSB)
22	G4	Green Data 4
23	G3	Green Data 3
24	GND	Power Ground
25	G2	Green Data 2
26	G1	Green Data 1
27	G0	Green Data 0(LSB)
28	GND	Power Ground
29	R5	Red Data 5 (MSB)
30	R4	Red Data 4
31	R3	Red Data 3
32	GND	Power Ground
33	R2	Red Data 2
34	R1	Red Data 1
35	R0	Red Data 0(LSB)

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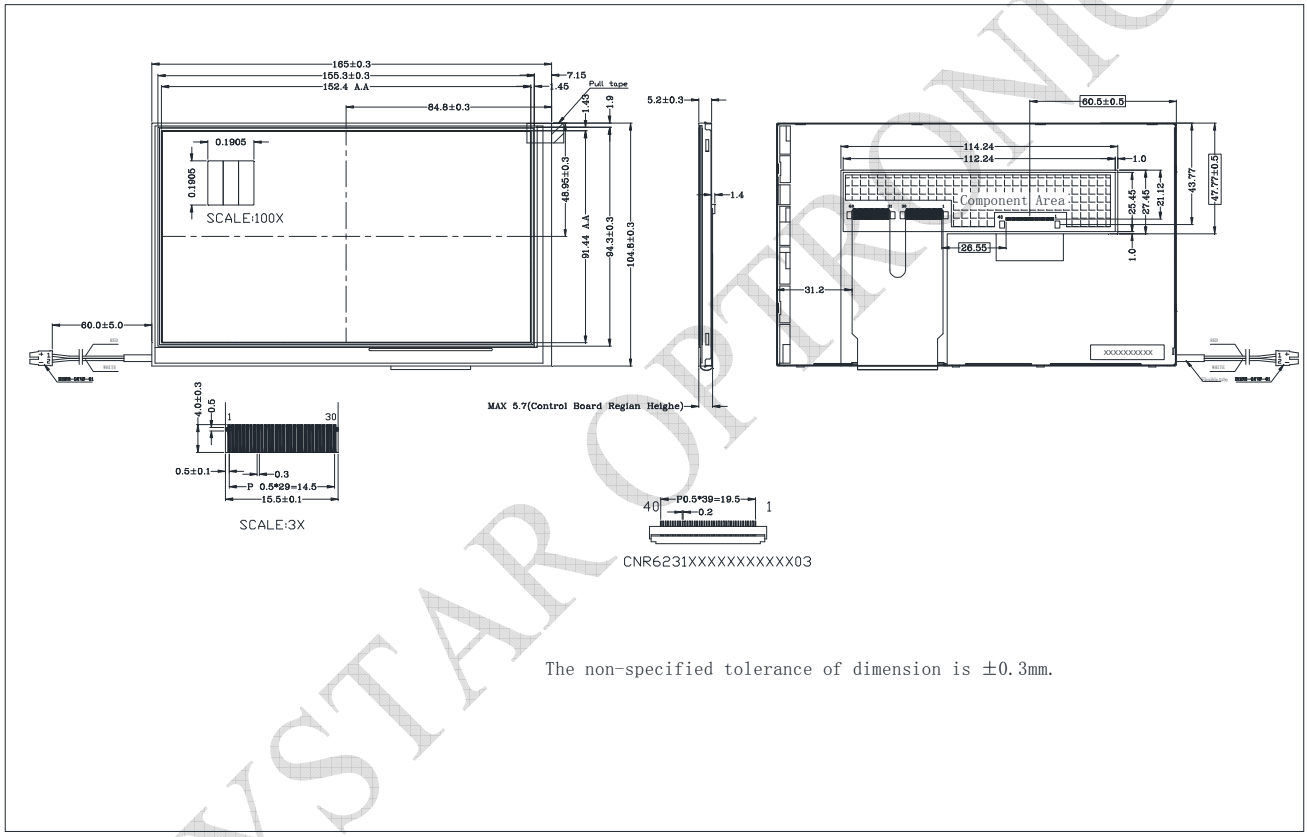
36	GND	Power Ground
37	GND	Power Ground
38	DCLK	Clock Signals ; Latch Data at the Falling Edge
39	GND	Power Ground
40	GND	Power Ground

Contour Drawing



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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

Operating conditions

Absolute Maximum Ratings (GND=0V)

Item	Symbol	Min	Typ	Max	Unit
Power Voltage	Vcc	-0.3	-	6	V
Input Signal Voltage	Vi	-0.3	-	Vcc+0.3	V

Recommended Operation condition (GND=0V，Ta=25℃)

Item		Symbol	Min	Typ	Max	Unit
Power Supply Voltage		Vcc	3.0	3.3	3.6	V
Power Supply Current		Icc		200	260	mA
Input logic Voltage	High Level	VIH	0.7Vcc	-	Vcc	V
	Low Level	VIL	0	-	0.3Vcc	

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	-	-	160	200	mA
Power Consumption	VBL+=9.8V		1568	2200	mW
LED voltage	VBL+	8.4	-	11	V
LED Life Time	-	-	50,000	-	Hr

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