



**RAYSTAR**

**曜凌光電股份有限公司**

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**RFF80B-AIW-DNN**

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## **SPECIFICATION**

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## General Specifications

- Size: 8.0 inch
- Dot Matrix: 800 x RGB x 480(TFT)
- Module dimension: 192.80 x 116.90 x 6.4 mm
- Active area: 176.64 x99.36 mm
- Dot pitch: 0.0736 x 0.2070 mm
- LCD type: TFT, Normally White, Transmissive
- Interface: Digital
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 16:9
- 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

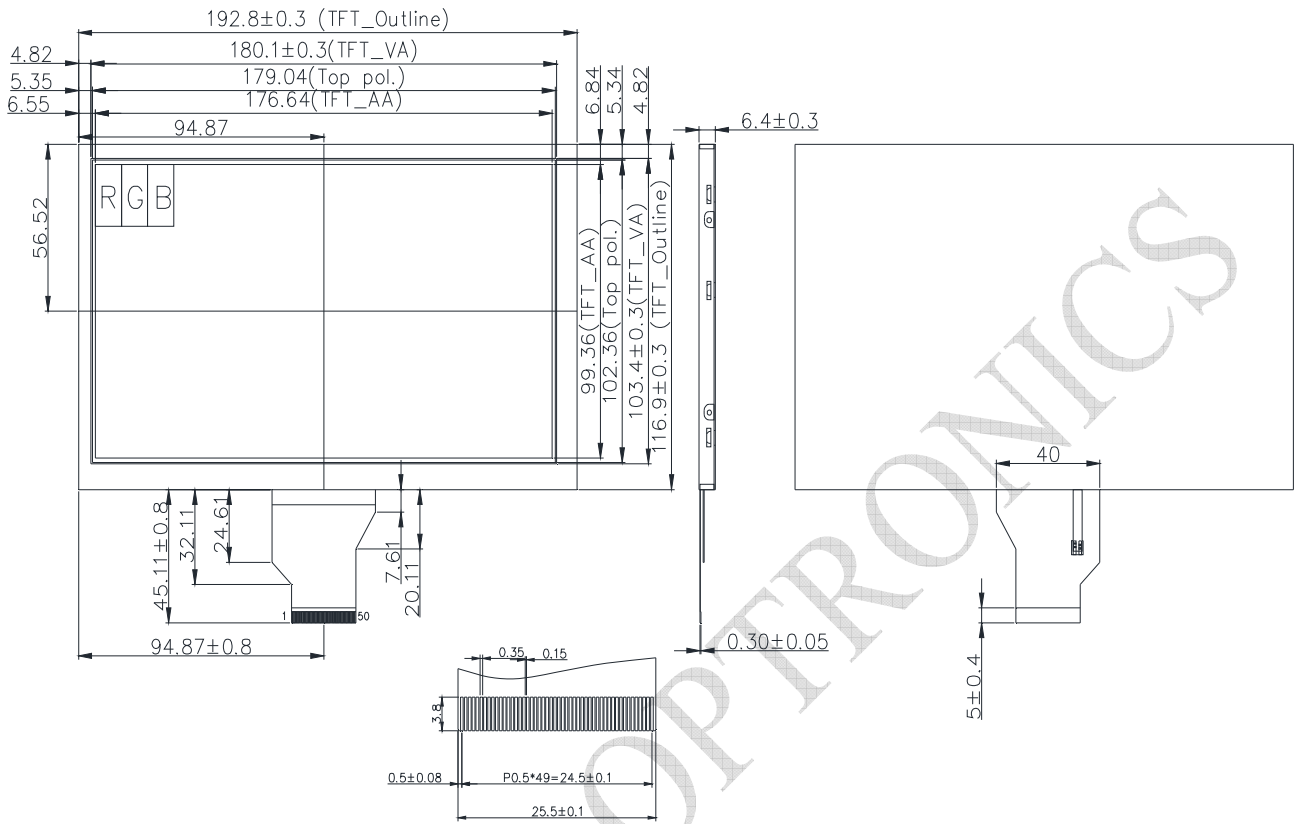
Pin	Symbol	I/O	Function
1	VLED+	P	Power for LED backlight(Anode)
2	VLED+	P	Power for LED backlight(Anode)
3	VLED-	P	Power for LED backlight(Cathode)
4	VLED-	P	Power for LED backlight(Cathode)
5	GND	P	Power ground
6	VCOM	I	Common voltage
7	DVDD	P	Power for Digital Circuit
8	MODE	I	DE/SYNC mode select
9	DE	I	Data Input Enable
10	VS	I	Vertical Sync Input
11	HS	I	Horizontal Sync Input
12	B7	I	Blue data(MSB)
13	B6	I	Blue data
14	B5	I	Blue data
15	B4	I	Blue data
16	B3	I	Blue data
17	B2	I	Blue data
18	B1	I	Blue data
19	B0	I	Blue data(LSB)
20	G7	I	Green data(MSB)
21	G6	I	Green data
22	G5	I	Green data
23	G4	I	Green data
24	G3	I	Green data
25	G2	I	Green data
26	G1	I	Green data
27	G0	I	Green data(LSB)
28	R7	I	Red data(MSB)
29	R6	I	Red data
30	R5	I	Red data
31	R4	I	Red data
32	R3	I	Red data
33	R2	I	Red data
34	R1	I	Red data
35	R0	I	Red data(LSB)
36	GND	P	Power Ground

37	DCLK	I	Sample clock
38	GND	P	Power Ground
39	L/R	I	Left / right selection
40	U/D	I	Up/down selection
41	VGH	P	Gate ON Voltage
42	VGL	P	Gate OFF Voltage
43	AVDD	P	Power for Analog Circuit
44	RESET	I	Global reset pin.
45	NC	-	No connection
46	VCOM	I	Common Voltage
47	DITHB	I	Dithering function
48	GND	P	Power Ground
49	NC	-	No connection
50	NC	-	No connection

I: input, O: output, P: Power

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# Contour Drawing



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## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T <sub>OP</sub>	-30	—	+85	°C
Storage Temperature	T <sub>ST</sub>	-30	—	+85	°C
Power voltage	DVDD	-0.3	—	5.0	V
	AVDD	6.5	—	13.5	V
	VGH	-0.3	—	40.0	V
	VGL	-20.0	—	0.3	V
	VGH-VGL	-	—	40.0	V

## Electrical Characteristics

Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Power voltage	DVDD	3.0	3.3	3.6	V
	AVDD	10.2	10.4	10.6	V
	VGH	15.3	16.0	16.7	V
	VGL	-7.7	-7.0	-6.3	V
Input signal voltage	VCOM	3.4	4.4	5.4	V