



**RAYSTAR**

**曜凌光電股份有限公司**

Web: [www.raystar-optronics.com](http://www.raystar-optronics.com) E-mail: [sales@raystar-optronics.com](mailto:sales@raystar-optronics.com)

## **RFF700H-AIW-DNS**

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### **SPECIFICATION**

#### **General Specifications**

- Size: 7.0 inch
- Dot Matrix: 800 x RGB x 480(TFT) dots
- Module dimension: 165 x 104.8 x 7.2 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
- Aspect Ratio:16:9
- Backlight Type: LED ,Normally White
- With /Without TP: With RTP
- 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



## Absolute Maximum Ratings

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

## 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°C)

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
	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