



**RAYSTAR**

**曜凌光電股份有限公司**

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## **RFS390A-AIW-DNN**

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### **SPECIFICATION**

#### **General Specifications**

- Size: 3.9 inch
- Dot Matrix: 480 x RGBx128(TFT) dots
- Module dimension: 105.5(W) x 40.64(H) x 2.95(D) mm
- Active area: 95.04 x 25.34 mm
- Dot pitch: 0.066(W)x 0.198(H) mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: Bar Type
- Backlight Type: LED, Normally White
- With /Without TP: Without TP
- Surface: Anti-Glare

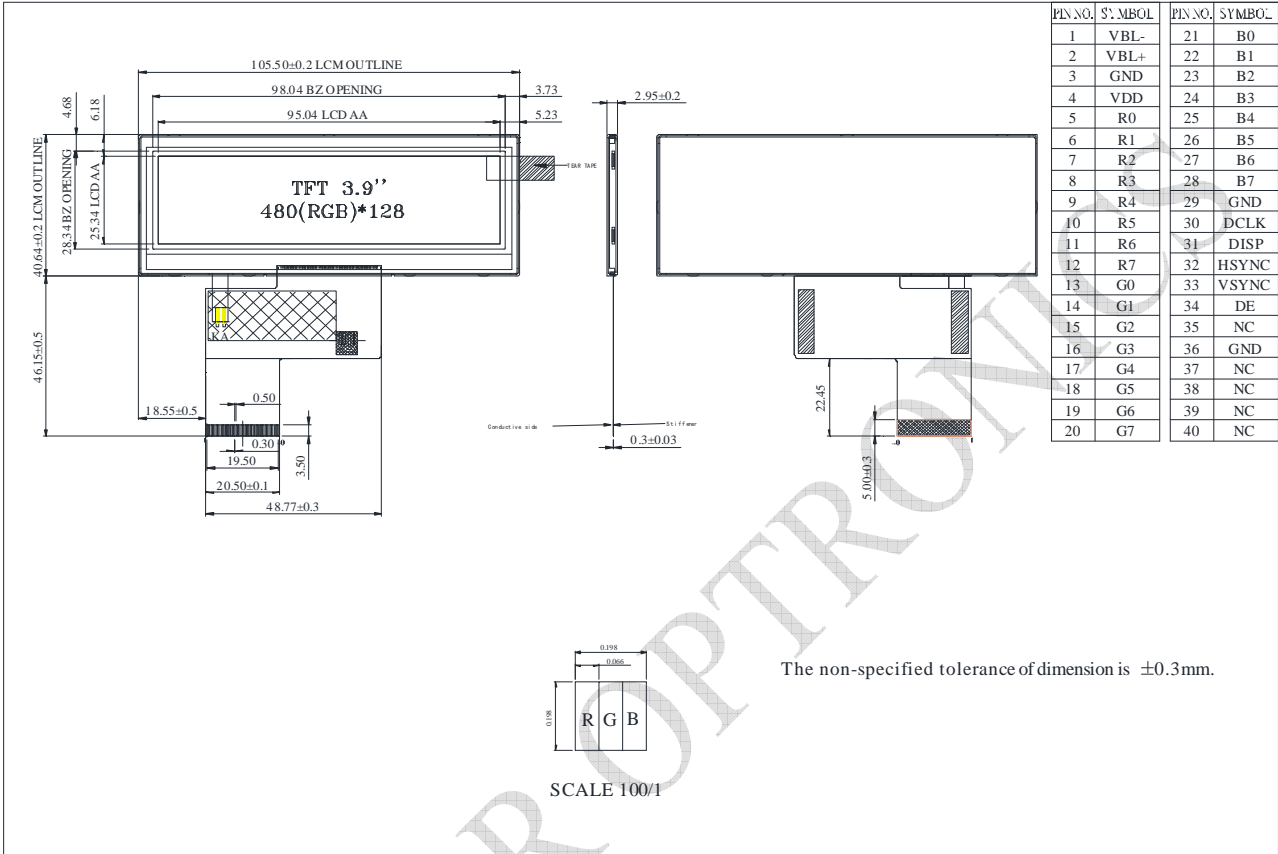
\*Color tone slight changed by temperature and driving voltage.

## Interface

### LCM PIN Definition

No.	Symbol	Description
1	VBL-	Backlight LED Cathode
2	VBL+	Backlight LED Anode.
3	GND	System Ground
4	VDD	Power supply for logic operation
5~12	R0~R7	Data bus
13~20	G0~G7	Data bus
21~28	B0~B7	Data bus
29	GND	System Ground
30	DCLK	Pixel clock signal
31	DISP	Display on/off control
32	HSYNC	Horizontal Sync signal
33	VSYNC	Vrtical Sync signal
34	DE	Data Enable
35	NC	No connection
36	GND	System Ground
37	NC	No connection
38	NC	No connection
39	NC	No connection
40	NC	No connection

# Contour Drawing



## 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

Item	Symbol	Min	Typ	Max	Unit	
Supply Voltage	VBDDDB	3.0	3.3	3.6	V	
Input Signal Voltage	Low Level	VBILB	GND	-	0.3x VDD	V
	High Level	VBIHB	0.7x VDD	-	VDD	V
	DISP		100			uA
Supply Current	Icc	11	-	20	mA	

### LED driving conditions

Item	Symbol	Min	Typ	Max	Unit
Forward Current	IB	36	40	50	mA
Forward Voltage	VB	15	16	17.5	V
Backlight life time	B	-	25000	-	hr