



**RAYSTAR**

**曜凌光電股份有限公司**

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## **RFS390B-AZW-DNN**

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### **SPECIFICATION**

#### **General Specifications**

- Size: 3.9 inch
- Dot Matrix: 480x128 x RGB (TFT) dots
- Module dimension: 105.5(W) x 37.0(H) x 3.05(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: 6 o'clock
- Gray Scale Inversion Direction: 12 o'clock
- Aspect Ratio: Bar Type
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

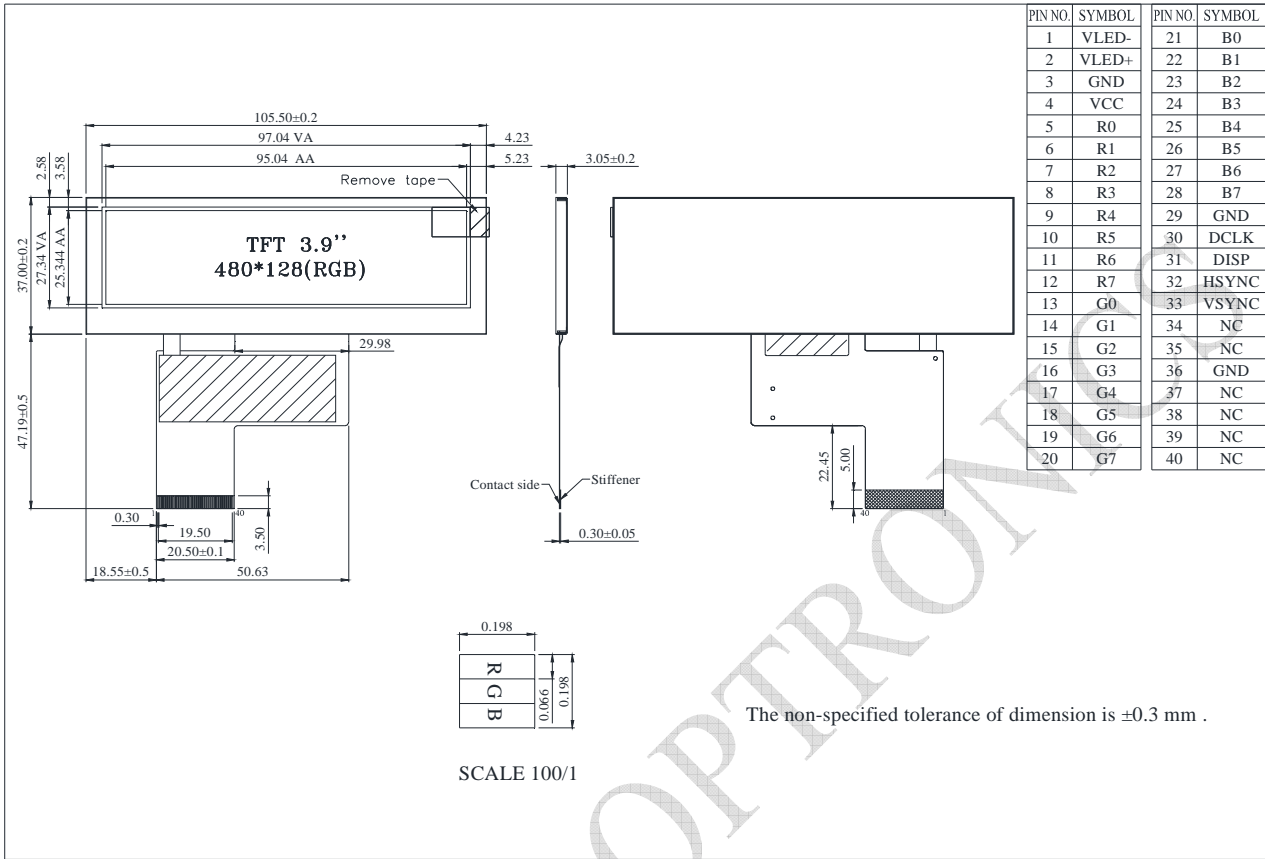
\*Color tone slight changed by temperature and driving voltage.

## Interface

### LCM PIN Definition

No.	Symbol	Description
1	VLED-	Backlight LED Cathode
2	VLED+	Backlight LED Anode.
3	GND	System Ground
4	VCC	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	NC	No connection (Option DE)
35	NC	No connection
36	GND	System Ground
37	NC	No connection (Option XR for RTP)
38	NC	No connection (Option YD for RTP)
39	NC	No connection (Option XL for RTP)
40	NC	No connection (Option YU for RTP)

# 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	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V
Supply Current For LCM	ICC	—	—	15	25	mA

### LED driving conditions

Item	Symbol	Min	Typ	Max	Unit
Forward Current	I <sub>LED</sub>	—	40	—	mA
Forward Voltage	V <sub>LED+</sub>	14	15	17	V
Backlight life time	—	—	50000	—	hr