



**RAYSTAR**

**曜凌光電股份有限公司**

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**RFA300960A-AYW-DNN**

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## **SPECIFICATION**

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## General Specifications

- Size: 0.96 inch
- Dot Matrix: 80 x RGB x 160(TFT) dots
- Module dimension: 13.5(W) x 27.95(H) x 1.54(D) mm
- Active area: 10.8 x 21.696 mm
- Dot pitch: 0.135 x 0.1356 mm
- LCD type: TFT, Normally black, Transmissive
- Viewing Angle: 80/80/80/80
- Aspect Ratio: 1:2
- IC: ST7735S
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

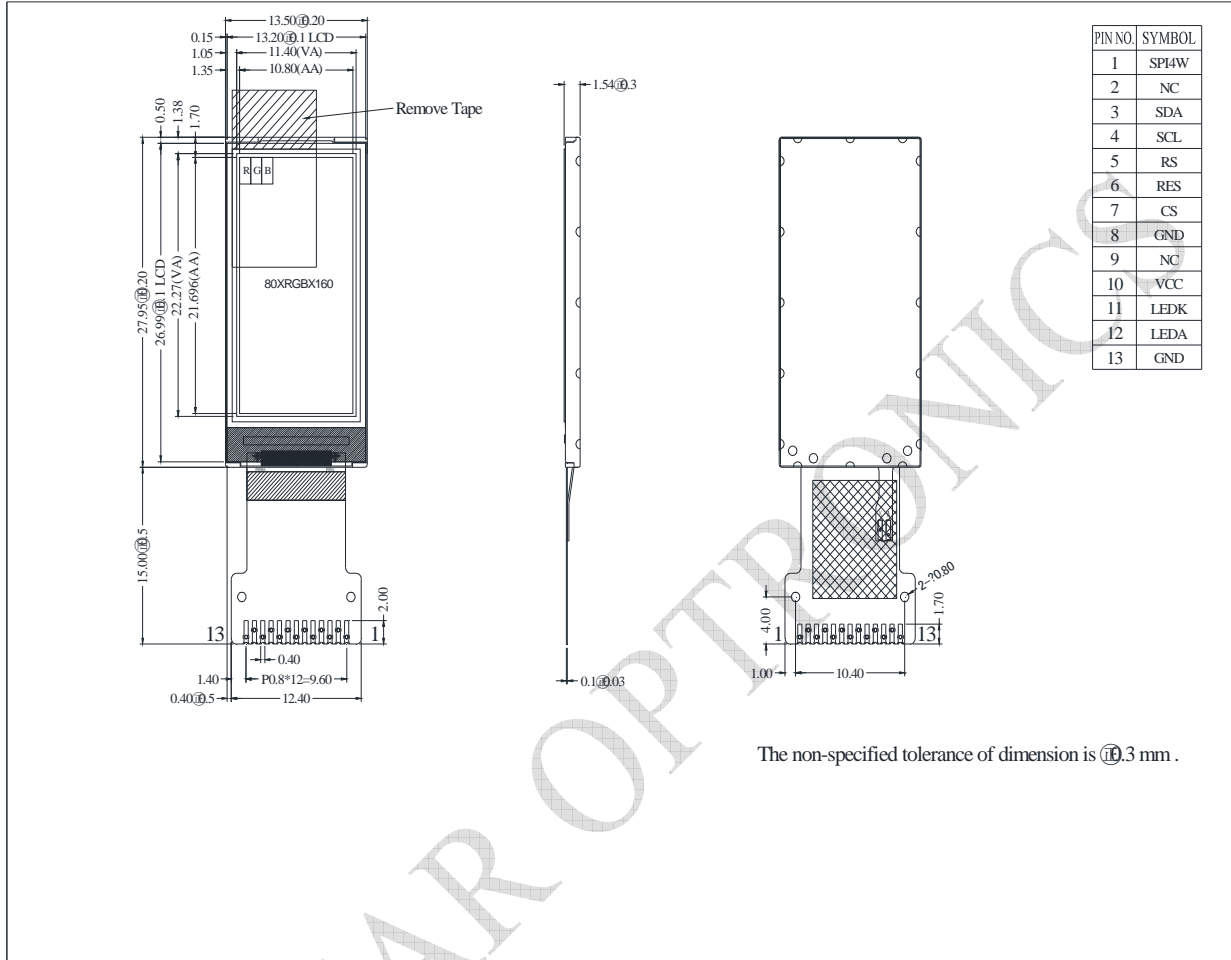
\*Color tone slight changed by temperature and driving voltage.

## Interface

### LCM PIN Definition

Pin	Symbol	Function
1	SPI4W	SPI4W='0', 3-wire SPI. SPI4W='1', 4-wire SPI.
2	NC	No connection
3	SDA	Serial interface data
4	SCL	Serial interface clock
5	RS	Data/command selection pin (4-wire SPI use)
6	RES	Reset pin (low active)
7	CS	Chip selection pin (low active)
8	GND	Ground
9	NC	No connection
10	VCC	Power supply.
11	LEDK	Back light cathode
12	LEDA	Back light anode
13	GND	Ground

# 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

### 1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	VCC	3.0	3.3	3.6	V
Supply LCM current	ICC	—	—	2	mA

### 2. LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	I <sub>LED</sub>	—	20	—	mA
LED voltage	V <sub>LED</sub>	2.8	3.1	3.3	V
LED Life Time		—	50000	—	Hr

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