



RAYSTAR

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RFA300960A-AYW-DNN

SPECIFICATION

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

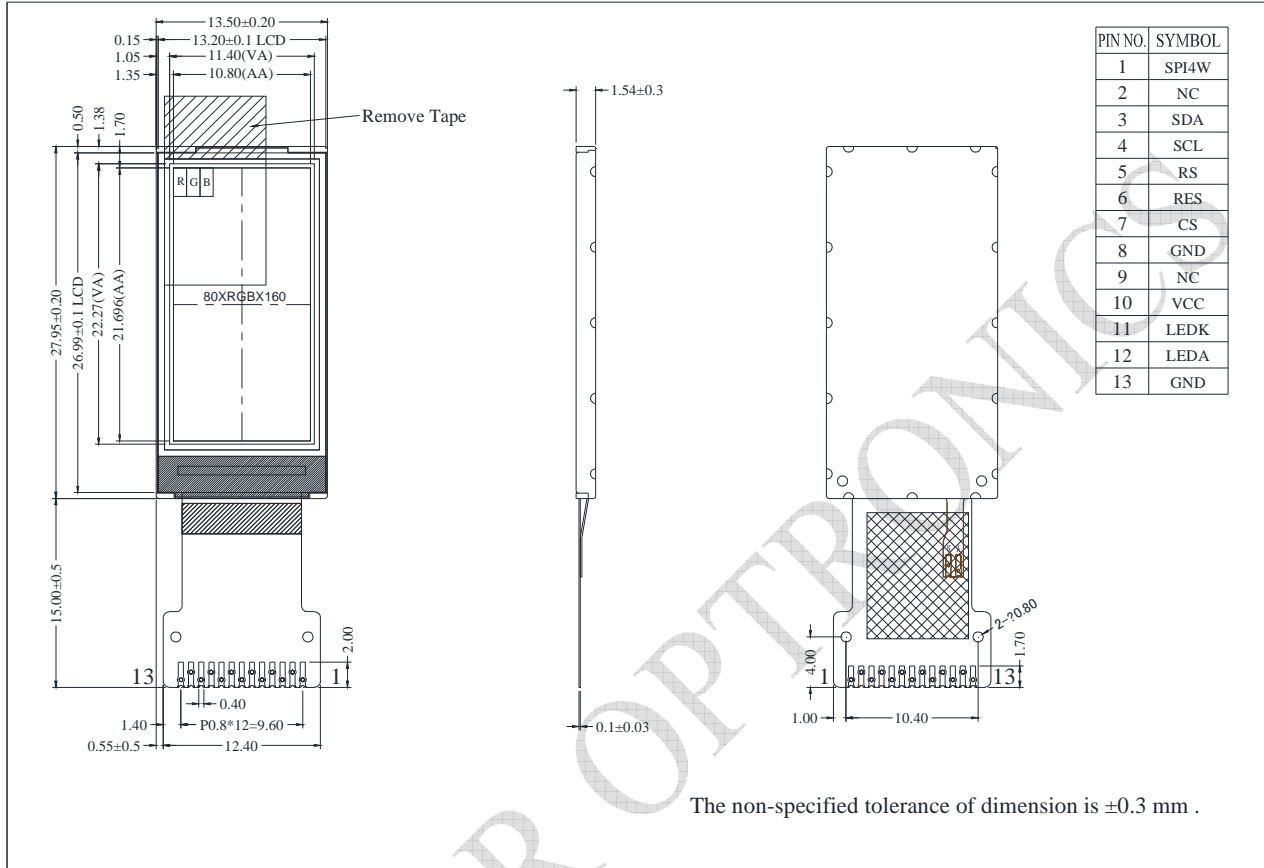
*Color tone slight changed by temperature and driving voltage.

Interface

1. 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 _{LED}	—	20	—	mA
LED voltage	V _{LED}	2.8	3.1	3.3	V
LED Life Time		—	50000	—	Hr