



RAYSTAR

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RFA300960A-AYW-DNF1 SPECIFICATION

General Specifications

- Size: 0.96 inch
- Dot Matrix: 80 x RGB x 160(TFT) dots
- Module dimension: 18.7 (W) x 31.9 (H) x 2.59 (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 or equivalent
- TFT Interface: SPI Interface
- Backlight Type: LED, Normally White
- PCAP Interface: I2C
- PCAP IC: FT3267 or equivalent
- PCAP FW Version: V06
- Touch Panel: With PCAP
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

Interface

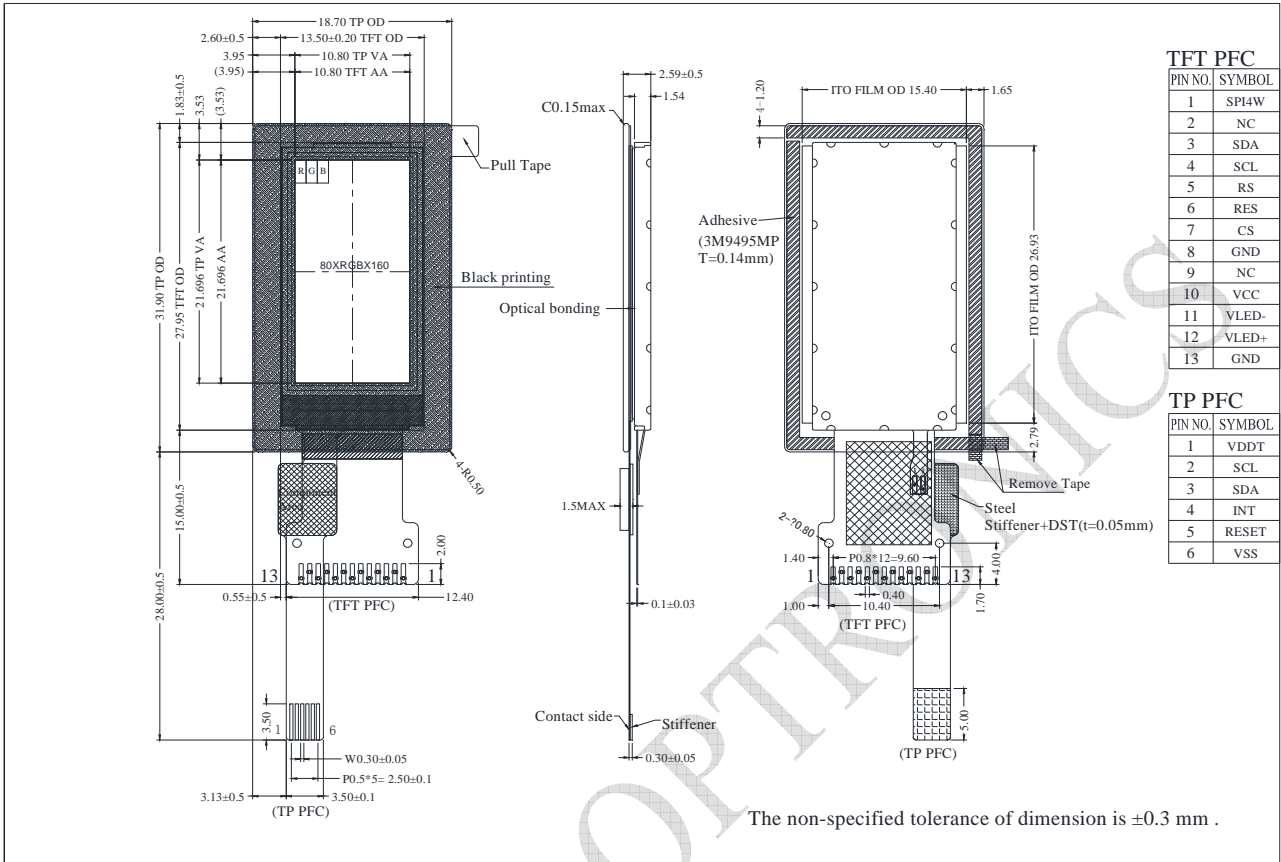
1. LCM PIN Definition

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	VLED-	Back light cathode
12	VLED+	Back light anode
13	GND	Ground

2. PCAP PIN Definition

Pin	Symbol	Function
1	VDDT	Power supply
2	SCL	IIC clock signal. Must be pulled high
3	SDA	IIC data signal. Must be pulled high.
4	INT	External interrupt to the host
5	RESET	External Reset. Low is active
6	VSS	Power ground.

Contour Drawing



TFT PFC

PIN NO.	SYMBOL
1	SP14W
2	NC
3	SDA
4	SCL
5	RS
6	RES
7	CS
8	GND
9	NC
10	VCC
11	VLED-
12	VLED+
13	GND

TP PFC

PIN NO.	SYMBOL
1	VDDT
2	SCL
3	SDA
4	INT
5	RESET
6	VSS

The non-specified tolerance of dimension is ±0.3 mm .

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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	VCC	3.0	3.3	3.6	V
Supply LCM current	ICC	—	2	3	mA
Supply CTP	VDDT	2.8	—	3.3	V
	I _{VDDT}	—	2	3	mA