



RAYSTAR

RAYSTAR Optronics, Inc.
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曜凌光電股份有限公司 Raystar Optronics, Inc.

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RFA180H-ALH-DNN

General Specifications

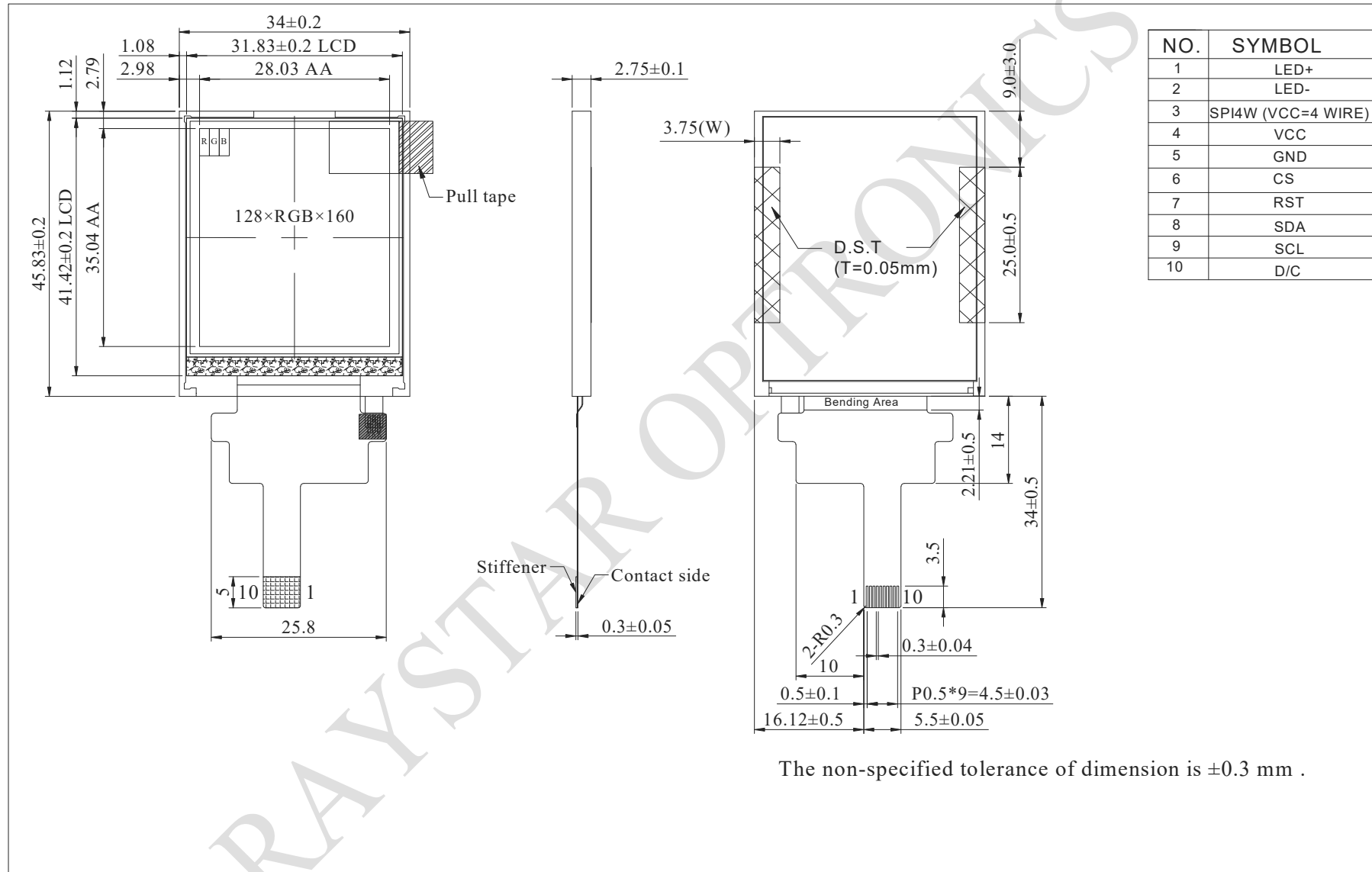
- Size: 1.77 inch
- Dot Matrix: 128 x RGB x 160(TFT) dots
- Module dimension: 34.0(W) x 45.83(H) x 2.75(D) mm
- Active area: 28.03 x 35.04 mm
- Dot pitch: 0.073 x 0.219 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 6 o'clock
- Gray Scale Inversion Direction: 12 o'clock
- Aspect Ratio: Portrait
- Driver IC: ST7735S
- Interface: SPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

LCM PIN Definition

Pin	Symbol	I/O	Function
1	LED+	P	Back light anode
2	LED-	P	Back light cathode
3	SPI4W (VCC=4 WIRE)	I	- SPI4W='0', 3-line SPI Enable. - SPI4W='1', 4-line SPI Enable.
4	VCC	P	Power Supply.
5	GND	P	Ground
6	CS	I	Chip enable (CSX)
7	RST	I	Reset signal (RESX)
8	SDA	I/O	Serial input/output signal in serial interface mode.
9	SCL	I	In Serial Interface, this is used as SCL.
10	D/C	I	Data/ command selection. (D/CX)

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 Analog	VCC	—	2.5	2.75	3.7	V
Supply LCM current	ICC	—	—	0.9	2	mA

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	40	—	mA
Power Consumption	—	—	124	—	mW
LED voltage	VBL+	2.9	3.1	3.4	V
LED Life Time	—	—	50,000	—	Hr