

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFN01800A2A0XWSNN00

General Specification

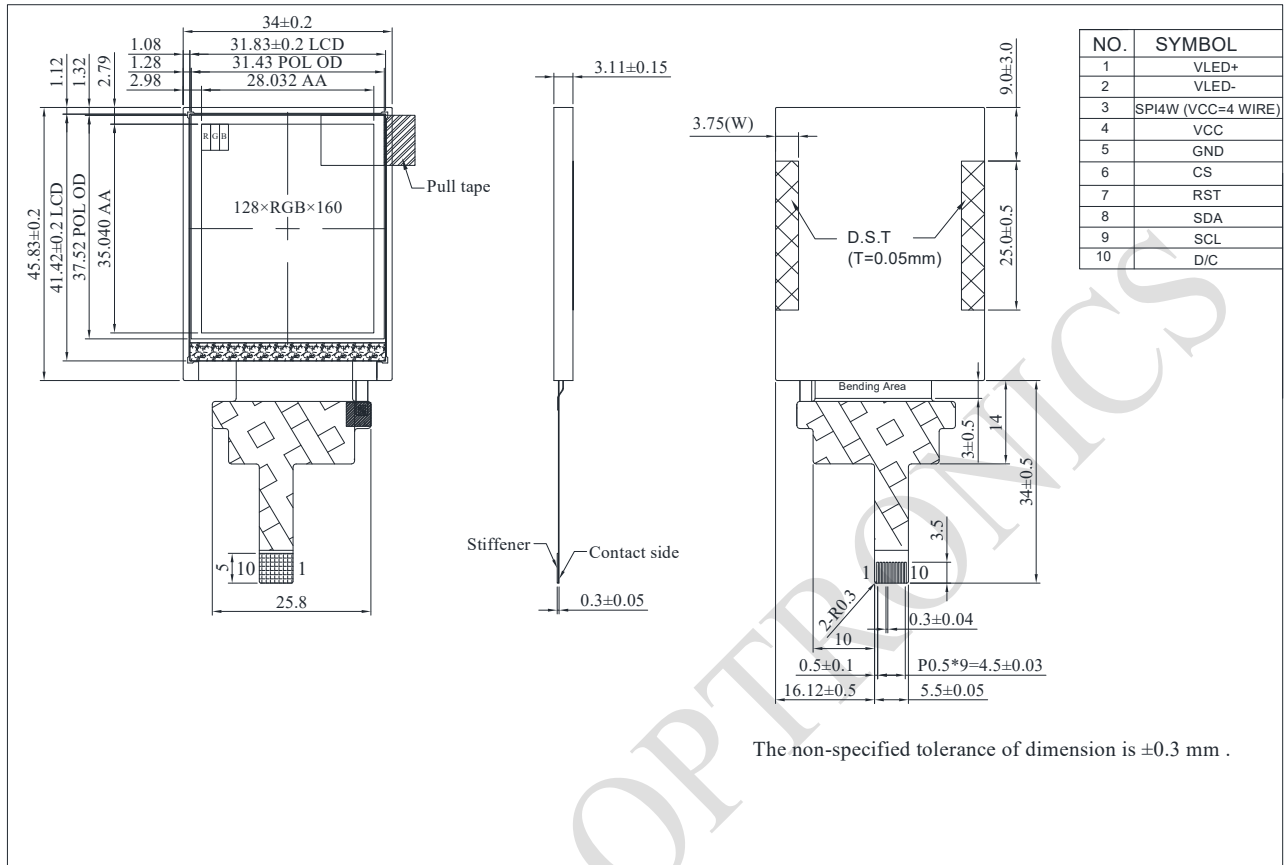
- Size: 1.77-inch
- Dot Matrix: 128 x RGB x 160(TFT) dots
- Module Dimension: 34.0 (W) x 45.83 (H) x 3.11 (D) mm
- Active Area: 28.032 x 35.040 mm
- Pixel Pitch: 0.219 x 0.219 mm
- LCD Type: TFT, Normally Black, Transmissive
- View Angle: 80/80/80/80
- Aspect Ratio: Portrait
- IC: NV3023B
- Interface: SPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

Interface

LCM PIN Definition

Pin no	Symbol	Function
1	VLED+	Back light anode
2	VLED-	Back light cathode
3	SPI4W (VCC=4 WIRE)	SPI4W='1', SPI 4 Wire Serial SPI4W='0', SPI 3 Wire Serial
4	VCC	Power Supply.
5	GND	Ground
6	CS	Chip enable (CSX)
7	RST	Reset signal (RESX)
8	SDA	Serial input/output signal in serial interface mode.
9	SCL	In Serial Interface, this is used as SCL.
10	D/C	Data/ command selection. (D/CX)

Contour Drawing



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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	2.8	3.3	3.6	V
Supply LCM Current	ICC	—	7	10.5	mA

LED Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED Current	—	—	60	—	mA
LED Voltage	VLED+	2.7	2.9	3.3	V
LED Life Time	—	50,000	—	—	Hr